DOE/EIA-0376(2023)
June 2025

State Energy Price and Expenditure Estimates

1970 Through 2023

Independent Statistics and Analysis
U.S. Energy Information Administration

2023 Price and Expenditure Summary Tables

Table E1. Primary energy, electricity, and total energy price estimates, 2023
(dollars per million Btu)

State	Primary energy												Electric power sector [h,i]	Electricity [k]	Total energy [h,j]
			Petroleum								Biomass				
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Nuclear fuel	Wood and waste [g]	Total [h,i,j]			
Alabama	3.43	4.56	27.24	19.71	20.78	25.62	14.26	32.73	26.00	0.66	3.44	9.35	2.10	33.68	21.11
Alaska	5.51	8.26	30.74	21.97	21.32	42.16	17.29	24.85	27.10	—	11.53	20.27	9.32	62.84	23.84
Arizona	3.11	6.29	29.57	24.74	20.86	33.92	—	28.25	30.82	0.64	7.29	14.36	2.74	35.72	30.28
Arkansas	2.24	6.94	27.25	20.10	20.75	25.92	—	29.35	26.34	0.47	3.93	11.07	1.89	28.57	21.76
California	5.10	14.06	37.47	24.44	20.89	38.64	22.09	37.14	34.52	0.57	4.20	25.52	6.66	73.04	35.72
Colorado	2.13	8.09	28.49	21.34	21.46	29.83	—	32.36	28.11	—	10.09	15.97	3.03	34.53	23.85
Connecticut	—	7.98	28.00	34.11	21.67	29.78	19.07	26.96	28.91	0.59	5.44	15.01	2.37	71.04	32.32
Delaware	3.55	9.57	29.32	24.51	21.46	29.10	15.95	30.47	28.02	—	4.99	19.90	2.23	38.09	26.70
Dist. of Col.	—	14.87	29.73	26.28	—	30.61	—	19.94	29.01	—	1.01	20.28	—	48.36	32.28
Florida	3.45	4.87	29.52	24.53	20.19	26.69	14.80	28.04	25.72	0.49	2.44	14.17	3.39	39.66	28.12
Georgia	4.54	6.51	28.20	22.49	20.28	25.53	19.97	28.21	25.49	0.77	3.36	12.90	2.43	32.42	22.97
Hawaii	—	46.08	31.05	21.98	20.50	42.17	19.32	34.06	26.02	—	1.74	25.71	19.49	113.17	40.33
Idaho	4.38	7.53	30.78	24.46	22.04	31.39	16.78	31.00	30.46	—	4.92	19.68	6.42	26.61	22.77
Illinois	2.91	8.25	30.24	13.38	20.94	28.01	17.68	32.02	26.65	0.63	5.12	11.13	1.21	34.71	21.60
Indiana	4.14	6.28	29.29	20.75	20.65	27.07	13.34	26.03	27.27	—	3.73	12.10	2.98	33.83	19.87
Iowa	1.77	6.89	27.61	12.42	21.08	27.53	17.98	30.73	25.25	—	4.42	13.05	2.18	27.60	18.09
Kansas	1.72	8.14	28.07	19.34	20.75	27.35	18.07	35.27	27.39	0.62	5.64	12.85	1.57	31.92	22.19
Kentucky	2.63	6.15	28.68	12.89	20.51	27.99	17.98	20.65	25.58	—	3.84	12.88	2.70	29.33	22.24
Louisiana	3.37	3.94	27.14	7.75	20.52	25.75	7.02	21.82	16.56	0.57	3.16	9.16	2.39	27.03	12.42
Maine	5.40	9.94	28.88	25.67	21.67	29.60	19.82	30.03	28.68	—	4.03	20.80	7.70	61.08	28.75
Maryland	3.49	9.71	29.96	27.78	21.46	29.24	18.24	30.87	28.74	0.59	5.49	17.24	1.64	42.03	28.85
Massachusetts	—	14.31	28.54	33.36	21.56	29.38	13.31	32.20	28.33	—	4.26	22.13	7.11	68.02	31.73
Michigan	3.40	6.89	28.82	21.56	20.34	27.36	11.86	18.93	26.21	0.54	4.53	12.09	2.29	40.17	22.37
Minnesota	2.46	8.04	29.16	19.18	21.03	28.58	18.13	32.22	27.57	0.77	4.10	14.71	3.53	35.99	22.18
Mississippi	4.02	3.99	27.31	21.25	20.32	25.71	13.84	30.34	26.12	0.65	3.37	10.61	2.41	32.33	22.44
Missouri	1.98	10.50	27.56	20.35	20.75	26.72	16.44	25.27	26.37	0.70	7.73	14.16	1.92	31.87	24.70
Montana	2.42	8.00	30.78	20.23	22.04	31.25	—	14.95	27.82	—	12.07	14.38	2.57	32.77	24.05
Nebraska	1.33	7.62	28.45	16.73	20.75	28.29	17.90	37.69	28.08	0.66	4.79	12.15	1.29	26.80	20.47
Nevada	5.12	9.89	29.79	24.88	20.99	35.31	—	30.79	29.99	—	10.22	19.37	6.99	38.36	28.58
New Hampshire	5.40	10.38	27.98	27.66	21.67	28.74	20.12	34.47	28.20	0.59	4.96	15.34	2.02	67.28	32.28
New Jersey	—	8.00	29.19	23.48	21.51	28.19	17.63	27.89	27.00	0.61	4.10	15.03	1.30	44.87	25.20
New Mexico	3.60	5.33	28.63	22.91	20.75	26.74	—	36.51	27.65	—	15.41	15.89	3.07	27.87	24.66
New York	4.10	9.32	29.35	28.14	21.69	28.14	15.70	26.17	26.94	0.64	4.37	16.50	2.70	53.57	27.05
North Carolina	4.78	7.17	29.06	25.13	20.29	27.50	14.96	33.05	27.23	0.55	3.65	13.98	3.15	31.10	24.97
North Dakota	1.83	4.75	27.19	16.98	20.75	29.23	—	41.02	27.57	—	8.03	9.57	2.26	23.54	18.15
Ohio	3.85	6.22	28.92	22.12	21.13	28.03	17.75	23.80	27.38	0.62	5.83	12.71	2.12	32.50	21.65
Oklahoma	2.47	4.66	27.42	19.42	20.75	26.78	17.73	37.53	26.54	—	3.88	12.98	2.88	27.47	20.30
Oregon	4.73	7.72	31.68	20.42	21.31	36.22	22.03	31.00	32.74	—	5.20	20.13	5.00	30.23	26.55
Pennsylvania	4.42	6.24	30.54	11.35	21.27	29.88	15.69	28.61	27.18	0.64	4.51	11.10	1.52	36.89	23.67
Rhode Island	—	8.31	28.10	32.54	21.67	29.53	19.03	24.36	28.54	—	5.07	16.72	3.72	63.37	31.52
South Carolina	3.62	5.98	27.96	25.19	20.04	25.88	15.10	22.19	25.77	0.55	2.95	9.98	1.77	30.76	23.07
South Dakota	2.35	5.94	28.54	18.34	19.27	28.49	17.70	35.96	28.02	—	6.44	16.62	2.65	30.73	21.31
Tennessee	3.78	6.37	28.23	21.67	20.75	27.17	16.69	31.40	26.78	0.59	3.75	13.21	1.73	31.41	23.31
Texas	2.10	3.57	27.00	8.80	20.91	25.47	11.86	25.00	18.50	0.59	3.09	11.36	2.19	29.66	17.37
Utah	2.56	10.46	31.09	18.14	22.39	31.23	16.79	36.93	29.80	—	10.27	16.68	4.46	26.58	23.79
Vermont	—	9.65	29.46	27.22	21.67	29.75	21.94	25.35	28.93	—	5.32	22.53	16.55	51.38	29.76
Virginia	6.03	5.94	28.74	26.27	20.10	26.71	11.29	29.84	26.32	0.59	4.09	13.93	2.23	31.29	23.81
Washington	3.91	9.74	32.50	22.72	20.86	36.91	22.09	35.78	31.49	0.66	4.27	20.61	3.97	28.25	26.35
West Virginia	2.89	6.82	29.19	23.84	20.28	28.83	15.00	27.76	28.52	—	9.96	10.26	2.81	30.08	24.29
Wisconsin	2.55	6.86	28.93	19.05	21.60	28.92	17.68	28.33	28.04	0.59	4.37	13.48	2.66	37.29	22.70
Wyoming	1.94	7.86	28.33	21.42	21.59	29.26	—	31.58	28.28	—	15.32	8.80	2.11	24.73	19.69
United States	2.92	6.87	29.62	11.35	20.90	29.02	16.88	27.02	26.00	0.61	3.96	13.98	2.62	37.34	23.59

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Includes biodiesel and renewable diesel blended into distillate fuel oil. Includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."
[e] Includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Includes small amount of other biomass liquids that are biodiesel.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[j] The U.S. average includes coal coke net imports, which are not allocated to the states.
[k] Electricity sales to ultimate customers.
— = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table E2. Total end-use energy price estimates, 2023
(dollars per million Btu)

State	Primary energy											Electricity [j]	Total energy [h,i]
			Petroleum							Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g]	Total [h,i]		
Alabama	6.51	6.95	27.25	19.71	20.78	25.62	14.26	32.73	26.00	3.44	17.52	33.68	21.11
Alaska	6.84	8.29	31.12	21.97	21.32	42.16	17.29	24.85	27.14	11.53	21.61	62.84	23.84
Arizona	4.64	13.93	29.59	24.74	20.86	33.92	—	28.25	30.82	13.55	28.13	35.72	30.28
Arkansas	5.23	11.44	27.27	20.10	20.75	25.92	—	29.35	26.35	3.94	19.76	28.57	21.76
California	5.10	16.97	37.47	24.44	20.89	38.64	22.09	37.14	34.52	5.88	29.22	73.04	35.72
Colorado	3.37	10.10	28.53	21.34	21.46	29.83	—	32.36	28.12	14.69	21.43	34.53	23.85
Connecticut	—	13.87	28.02	34.11	21.67	29.78	22.46	26.96	28.95	8.98	24.34	71.04	32.32
Delaware	—	14.42	29.37	24.51	21.46	29.10	15.12	30.47	28.04	7.01	23.65	38.09	26.70
Dist. of Col.	—	14.87	29.73	26.28	—	30.61	—	19.94	29.01	1.01	20.28	48.36	32.28
Florida	7.44	10.57	29.56	24.53	20.19	26.69	14.80	33.12	25.84	2.36	23.62	39.66	28.12
Georgia	7.04	10.98	28.21	22.49	20.28	25.53	19.97	28.21	25.49	3.43	19.97	32.42	22.97
Hawaii	—	46.08	38.89	21.98	20.50	42.17	17.34	34.06	28.54	1.07	28.23	113.17	40.33
Idaho	4.38	8.01	30.78	24.46	22.04	31.39	16.78	31.00	30.46	5.06	21.71	26.61	22.77
Illinois	6.55	9.60	30.25	13.38	20.94	28.01	17.68	32.02	26.65	7.94	18.72	34.71	21.60
Indiana	7.74	7.77	29.33	20.75	20.65	27.07	13.34	26.03	27.28	4.37	16.77	33.83	19.87
Iowa	1.81	7.63	27.64	12.42	21.08	27.53	17.98	30.73	25.26	4.70	16.05	27.60	18.09
Kansas	3.60	9.09	28.12	19.34	20.75	27.35	18.07	35.27	27.41	6.71	19.76	31.92	22.19
Kentucky	6.06	7.70	28.71	12.89	20.51	27.99	17.98	20.65	25.59	4.01	20.16	29.33	22.24
Louisiana	8.59	4.32	27.14	7.75	20.52	25.75	7.02	22.75	16.67	3.17	10.72	27.03	12.42
Maine	—	12.25	28.88	25.67	21.67	29.60	20.67	30.03	28.73	4.63	23.64	61.08	28.75
Maryland	3.35	14.92	30.01	27.78	21.46	29.24	16.98	30.87	28.76	10.14	24.75	42.03	28.85
Massachusetts	—	17.22	28.57	33.36	21.56	29.38	12.78	32.20	28.36	4.91	24.30	68.02	31.73
Michigan	7.52	9.77	28.87	21.56	20.34	27.36	11.83	23.93	26.65	5.41	18.55	40.17	22.37
Minnesota	2.99	8.88	29.21	19.18	21.03	28.58	18.13	32.22	27.58	4.95	19.13	35.99	22.18
Mississippi	5.25	7.68	27.32	21.25	20.32	25.71	13.84	30.34	26.12	3.38	19.49	32.33	22.44
Missouri	3.66	13.48	27.62	20.35	20.75	26.72	16.44	25.27	26.38	8.84	22.58	31.87	24.70
Montana	3.57	8.89	30.79	20.23	22.04	31.25	—	22.62	29.07	12.26	22.12	32.77	24.05
Nebraska	1.34	7.99	28.48	16.73	20.75	28.29	17.90	37.69	28.10	5.74	18.83	26.80	20.47
Nevada	4.99	14.31	29.79	24.88	20.99	35.31	—	30.79	29.99	14.92	25.56	38.36	28.58
New Hampshire	—	15.78	28.02	27.66	21.67	28.74	21.12	34.47	28.23	7.81	25.56	67.28	32.28
New Jersey	—	11.54	29.21	23.48	21.51	28.19	17.63	27.89	27.00	4.58	21.32	44.87	25.20
New Mexico	5.01	10.14	28.66	22.91	20.75	26.74	—	36.51	27.66	16.04	23.71	27.87	24.66
New York	4.10	13.10	29.37	28.14	21.69	28.14	15.34	26.17	26.96	4.78	21.48	53.57	27.05
North Carolina	7.22	10.24	29.09	25.13	20.29	27.50	14.96	33.05	27.24	3.78	22.75	31.10	24.97
North Dakota	1.72	5.29	27.24	16.98	20.75	29.23	—	41.02	27.59	8.03	16.48	23.54	18.15
Ohio	7.73	9.24	28.94	22.12	21.13	28.03	17.75	28.08	27.70	6.09	18.80	32.50	21.65
Oklahoma	6.12	6.66	27.43	19.42	20.75	26.78	17.73	37.53	26.54	3.89	18.29	27.47	20.30
Oregon	4.73	10.93	31.68	20.42	21.31	36.22	22.03	31.00	32.74	5.58	25.19	30.23	26.55
Pennsylvania	6.48	12.91	30.57	11.35	21.27	29.88	15.61	28.61	27.19	5.00	20.51	36.89	23.67
Rhode Island	—	17.40	28.16	32.54	21.67	29.53	19.03	24.36	28.56	8.75	24.88	63.37	31.52
South Carolina	7.56	8.45	28.00	25.19	20.04	25.88	15.10	22.19	25.78	3.34	20.25	30.76	23.07
South Dakota	2.74	6.74	28.57	18.34	19.27	28.49	17.70	35.96	28.03	6.44	19.18	30.73	21.31
Tennessee	5.19	7.78	28.28	21.67	20.75	27.17	16.69	31.40	26.79	3.76	20.69	31.41	23.31
Texas	5.59	4.61	27.01	8.80	20.91	25.47	11.86	25.00	18.50	3.10	14.96	29.66	17.37
Utah	3.85	11.80	31.11	18.14	22.39	31.23	16.79	36.93	29.80	13.72	23.15	26.58	23.79
Vermont	—	9.65	29.47	27.22	21.67	29.75	21.94	25.35	28.93	9.19	25.34	51.38	29.76
Virginia	6.43	9.68	28.80	26.27	20.10	26.71	11.29	29.84	26.33	4.25	21.00	31.29	23.81
Washington	8.26	12.69	32.51	22.72	20.86	36.91	22.09	35.78	31.50	4.43	25.75	28.25	26.35
West Virginia	8.83	8.64	29.35	23.84	20.28	28.83	15.00	27.76	28.58	10.06	22.26	30.08	24.29
Wisconsin	4.68	8.29	28.99	19.05	21.60	28.92	17.68	28.77	28.08	5.25	19.23	37.29	22.70
Wyoming	2.88	8.03	28.35	21.42	21.59	29.26	—	31.58	28.29	15.32	18.55	24.73	19.69
United States	5.84	9.64	29.66	11.35	20.90	29.02	16.59	27.75	26.05	4.26	20.23	37.34	23.59

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Includes biodiesel and renewable diesel blended into distillate fuel oil. Includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."
[e] Includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] The U.S. average includes coal coke net imports, which are not allocated to the states.
[j] Electricity sales to ultimate customers.
— = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.
Note: Total end-use energy price estimates are the weighted average of the energy prices for the residential, commercial, industrial, and transportation sectors.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table E3. Residential sector energy price estimates, 2023
(dollars per million Btu)

State	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
Alabama	—	19.54	22.59	27.86	33.39	27.72	11.95	20.23	42.86	37.41
Alaska	—	11.42	27.97	33.62	31.14	28.22	16.07	16.39	70.04	26.43
Arizona	—	18.90	29.51	31.88	32.89	31.88	16.07	20.06	41.09	35.08
Arkansas	—	17.50	23.14	26.46	34.19	26.44	11.95	18.14	35.91	29.41
California	—	21.14	29.98	31.52	33.40	31.53	16.07	21.57	86.49	44.64
Colorado	—	11.38	25.84	24.67	25.75	24.69	16.07	12.42	41.90	21.26
Connecticut	—	18.34	24.97	42.19	34.51	26.93	9.58	22.53	87.58	40.20
Delaware	—	17.11	29.51	33.21	32.89	31.24	11.95	20.89	46.11	33.88
Dist. of Col.	—	16.25	29.21	35.22	—	29.54	—	16.98	48.20	30.07
Florida	—	24.51	28.06	42.25	33.35	42.02	11.95	28.46	44.57	43.75
Georgia	—	18.53	27.54	31.74	32.72	31.71	11.95	19.12	40.12	31.67
Hawaii	—	57.84	29.07	50.84	—	50.81	16.07	54.26	124.25	117.12
Idaho	—	9.45	26.62	27.05	26.52	27.00	16.07	12.50	32.40	20.99
Illinois	—	11.12	27.52	21.02	36.41	21.17	12.07	11.82	46.03	20.90
Indiana	—	11.10	27.20	25.00	36.66	25.37	12.07	12.45	43.78	25.81
Iowa	—	11.03	27.35	18.69	36.32	19.04	12.07	13.09	39.00	22.42
Kansas	—	14.04	27.58	20.91	36.49	20.96	12.07	14.77	39.22	24.65
Kentucky	—	14.64	28.16	26.51	36.32	26.92	11.95	16.17	37.08	29.08
Louisiana	—	16.01	22.69	31.14	33.53	31.07	11.95	16.87	33.85	30.02
Maine	—	18.34	27.07	33.52	34.24	28.68	9.58	25.63	80.37	40.38
Maryland	—	16.70	28.72	35.36	34.86	30.79	11.95	19.45	48.64	33.49
Massachusetts	—	20.82	26.36	40.94	34.20	27.80	9.58	23.24	86.78	39.11
Michigan	—	10.91	26.22	23.92	36.32	24.17	12.07	12.33	55.23	22.77
Minnesota	—	11.30	29.66	21.51	36.46	22.74	12.07	13.38	43.18	22.65
Mississippi	—	15.24	23.24	30.05	34.35	30.06	11.95	17.99	38.76	32.87
Missouri	—	16.82	26.99	22.35	35.71	22.43	12.07	17.61	36.86	27.42
Montana	—	9.63	25.11	22.76	25.02	22.89	16.07	13.33	36.75	21.92
Nebraska	—	12.42	26.20	18.76	36.15	18.93	12.07	13.09	32.83	21.91
Nevada	—	16.25	29.86	32.19	33.28	31.93	16.07	17.04	48.85	31.32
New Hampshire	—	20.32	26.54	33.25	32.45	29.01	9.58	25.18	82.51	40.62
New Jersey	—	12.70	28.74	33.59	35.07	29.39	9.58	14.39	51.89	24.71
New Mexico	—	11.36	22.80	27.89	33.69	27.88	16.07	13.31	40.58	23.10
New York	—	16.37	26.22	34.47	33.68	27.90	9.58	18.84	65.20	29.51
North Carolina	—	16.81	27.05	34.97	32.96	32.94	11.95	20.57	37.89	32.53
North Dakota	—	9.21	27.19	18.96	35.98	20.08	12.07	12.89	32.27	21.66
Ohio	—	12.76	28.31	27.65	36.23	27.99	12.07	14.01	45.08	24.99
Oklahoma	—	14.52	27.06	22.03	35.81	22.06	11.95	15.21	35.40	26.00
Oregon	—	14.71	27.95	29.35	31.14	28.85	16.07	15.92	37.32	27.41
Pennsylvania	—	14.89	29.41	28.69	37.02	29.42	9.58	18.75	53.05	30.93
Rhode Island	—	19.97	25.68	38.36	34.72	26.95	9.58	22.84	79.18	35.69
South Carolina	—	16.97	28.06	36.15	33.35	35.18	11.95	19.14	40.10	34.74
South Dakota	—	9.62	27.02	20.92	35.75	21.70	12.07	12.53	36.12	23.75
Tennessee	—	11.25	27.71	27.04	36.66	27.51	11.95	12.63	35.73	27.82
Texas	—	17.02	23.08	29.24	34.11	29.24	11.95	17.82	42.39	35.53
Utah	—	12.84	26.65	25.91	26.55	25.96	16.07	13.24	32.82	19.13
Vermont	—	16.53	29.43	31.92	34.40	30.47	9.58	25.44	61.02	34.34
Virginia	—	16.25	28.47	34.84	33.13	31.68	11.95	19.30	41.79	32.23
Washington	—	14.24	29.77	26.82	33.17	27.80	16.07	15.84	32.19	24.70
West Virginia	—	14.41	28.06	35.56	33.35	33.01	11.95	16.90	41.18	30.09
Wisconsin	—	10.39	25.36	20.37	35.98	21.10	12.07	12.45	49.46	23.66
Wyoming	—	12.99	26.12	25.25	26.02	25.28	16.07	15.72	33.59	21.93
United States	—	14.77	27.14	27.25	34.28	27.31	11.93	16.75	46.89	30.58

[a] Consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Includes biodiesel blended into distillate fuel oil and biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers.
— = No consumption.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table E4. Commercial sector energy price estimates, 2023

(dollars per million Btu)

State	Primary energy										Electricity [h]	Total energy [g]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f]	Total [g]		
Alabama	—	14.60	21.83	15.82	33.39	25.62	17.64	22.53	11.95	17.16	38.58	31.54
Alaska	6.85	10.49	26.32	16.97	31.14	42.16	—	26.43	5.70	14.30	61.16	23.85
Arizona	—	11.84	24.33	17.92	32.89	33.92	—	27.89	16.07	17.42	34.54	28.67
Arkansas	—	12.27	22.35	16.20	34.19	25.92	—	22.79	11.84	13.46	30.30	20.07
California	—	16.65	24.71	18.20	33.40	38.64	—	31.75	3.23	20.16	70.09	45.55
Colorado	3.60	9.90	22.22	14.94	25.75	29.83	—	24.12	16.07	12.85	34.12	22.64
Connecticut	—	12.04	24.49	19.34	34.51	29.78	22.46	25.04	9.58	15.12	58.58	29.92
Delaware	—	13.93	21.64	17.11	32.89	29.10	16.16	23.20	11.95	16.16	34.67	25.48
Dist. of Col.	—	13.81	23.29	18.14	34.86	30.61	—	26.19	1.01	13.77	49.65	34.79
Florida	—	13.18	22.40	17.29	33.35	26.69	—	24.29	1.03	16.57	35.02	30.11
Georgia	—	10.46	21.97	16.96	32.72	25.53	—	23.06	11.95	14.43	31.35	26.17
Hawaii	—	43.54	23.96	17.65	—	42.17	—	25.94	1.02	22.80	114.38	65.03
Idaho	—	8.48	24.50	15.39	26.52	31.39	—	24.53	9.34	11.46	25.73	17.75
Illinois	2.61	9.53	21.80	15.20	36.41	28.01	—	24.54	12.07	10.85	32.95	19.27
Indiana	9.88	8.47	21.77	15.31	36.66	27.07	18.15	23.49	2.27	10.24	36.79	21.42
Iowa	1.70	8.67	21.63	15.16	36.32	27.53	—	21.66	5.56	10.57	30.27	18.21
Kansas	—	11.88	21.73	15.23	36.49	27.35	—	23.25	12.07	13.30	31.81	22.82
Kentucky	—	11.29	21.63	15.16	36.32	27.99	—	22.80	11.95	13.72	33.34	25.21
Louisiana	—	10.80	21.92	15.89	33.53	25.75	—	23.09	11.95	13.49	30.63	25.07
Maine	—	14.69	24.34	19.19	34.24	29.60	22.28	22.77	7.29	19.53	52.41	29.77
Maryland	—	13.50	23.51	18.14	34.86	29.24	17.13	25.61	8.75	16.02	37.43	26.85
Massachusetts	—	15.24	24.37	19.33	34.20	29.38	22.44	25.27	2.05	16.09	57.51	31.22
Michigan	—	9.45	21.77	15.16	36.32	27.36	17.98	23.15	8.16	11.02	39.27	21.97
Minnesota	3.35	9.77	21.96	15.29	36.46	28.58	18.13	22.05	5.62	11.16	36.30	20.43
Mississippi	—	11.40	22.46	16.27	34.35	25.71	—	22.17	11.95	14.24	36.25	28.36
Missouri	4.15	12.91	21.27	14.91	35.71	26.72	—	22.57	6.11	14.50	29.72	23.00
Montana	3.81	9.19	21.59	14.52	25.02	31.25	—	18.68	16.07	10.49	35.48	19.09
Nebraska	—	9.60	21.53	15.09	36.15	28.29	17.90	23.19	4.56	11.05	25.67	18.12
Nevada	—	13.20	24.62	18.13	33.28	35.31	—	28.96	16.07	16.36	34.90	25.38
New Hampshire	—	15.50	24.35	18.19	32.45	28.74	21.12	22.02	6.58	18.49	59.80	33.24
New Jersey	—	10.71	23.49	18.24	35.07	28.19	17.04	25.70	1.88	12.21	41.04	23.89
New Mexico	—	8.95	22.03	15.96	33.69	26.74	—	22.11	16.07	11.06	31.31	20.85
New York	—	9.34	23.17	17.79	33.68	28.14	16.81	23.52	2.26	11.75	52.80	27.34
North Carolina	8.27	10.84	22.13	17.08	32.96	27.50	14.83	23.16	11.95	14.80	28.35	23.71
North Dakota	1.61	7.43	21.42	15.02	35.98	29.23	—	20.18	12.07	10.63	21.62	17.36
Ohio	—	7.32	21.55	15.13	36.23	28.03	—	23.79	11.51	9.93	31.52	19.11
Oklahoma	—	11.28	21.32	14.95	35.81	26.78	—	22.46	4.18	13.13	27.36	21.32
Oregon	—	11.40	22.87	16.97	31.14	36.22	—	26.28	11.84	15.17	29.08	23.85
Pennsylvania	6.50	12.58	23.15	18.14	37.02	29.88	14.52	24.89	4.89	14.69	33.01	21.41
Rhode Island	—	16.90	24.73	19.46	34.72	29.53	22.59	25.23	9.58	19.25	51.82	33.81
South Carolina	—	11.16	22.40	17.29	33.35	25.88	15.00	23.33	11.95	15.24	30.46	25.70
South Dakota	—	7.56	21.29	14.93	35.75	28.49	17.70	21.91	12.07	9.65	29.77	20.08
Tennessee	—	9.97	21.83	15.31	36.66	27.17	—	23.54	11.95	12.74	34.57	26.52
Texas	—	9.86	22.30	16.16	34.11	25.47	—	22.79	11.95	12.52	25.86	21.74
Utah	—	11.32	22.91	15.40	26.55	31.23	—	21.37	9.85	12.96	24.93	17.99
Vermont	—	7.24	25.07	19.28	34.40	29.75	22.38	23.11	8.29	14.94	52.75	26.38
Virginia	7.24	10.19	22.11	17.17	33.13	26.71	14.90	22.97	2.62	12.72	26.23	22.15
Washington	—	11.72	24.31	18.07	33.17	36.91	—	28.24	14.86	15.57	29.07	22.94
West Virginia	—	11.54	22.73	17.29	33.35	28.83	—	23.97	11.95	13.74	32.34	22.24
Wisconsin	—	8.06	21.48	15.02	35.98	28.92	—	22.74	8.38	9.66	37.40	20.09
Wyoming	2.91	10.63	22.45	15.10	26.02	29.26	—	20.47	16.07	12.63	26.19	19.22
United States	6.25	10.99	23.11	16.89	34.51	29.79	19.40	24.72	4.15	13.57	36.91	25.63

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Includes biodiesel blended into distillate fuel oil and biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Includes fuel ethanol blended into motor gasoline.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] Electricity sales to ultimate customers.
— = No consumption.
Note: The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table E5. Industrial sector energy price estimates, 2023
(dollars per million Btu)

State	Primary energy												Electricity [h]	Total energy [f,g]
	Coal			Natural gas [a]	Petroleum						Biomass	Total [f,g]		
	Coking coal	Steam coal	Total		Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e]			
Alabama	6.29	6.79	6.51	4.40	22.42	9.78	25.62	17.64	25.31	22.92	3.32	6.46	20.82	9.34
Alaska	—	5.96	5.96	6.54	27.21	15.93	42.16	17.28	21.79	24.91	1.52	12.71	54.81	14.75
Arizona	—	4.64	4.64	6.75	24.48	16.82	33.92	—	21.77	24.84	3.01	19.20	23.76	20.80
Arkansas	—	5.23	5.23	9.26	22.96	10.02	25.92	—	23.78	22.90	3.26	11.17	20.12	13.46
California	—	5.10	5.10	13.61	24.87	20.29	38.64	20.67	29.55	28.46	3.15	16.85	54.63	22.73
Colorado	—	3.37	3.37	8.13	23.21	14.27	29.83	—	27.54	25.36	3.05	14.50	24.91	17.08
Connecticut	—	—	—	8.43	24.09	18.97	29.78	22.46	22.42	23.41	2.73	15.30	45.99	20.75
Delaware	—	—	—	13.26	21.69	16.11	29.10	16.16	23.24	22.41	1.17	15.07	22.99	16.43
Dist. of Col.	—	—	—	—	23.27	17.08	30.61	—	18.12	19.24	—	19.24	31.81	21.53
Florida	—	7.44	7.44	6.98	23.96	15.70	26.69	15.00	23.45	23.94	2.57	12.44	27.53	15.03
Georgia	—	7.04	7.04	5.22	23.51	15.40	25.53	14.72	22.50	22.57	3.30	8.18	20.16	10.74
Hawaii	—	—	—	31.02	24.11	16.56	42.17	19.40	27.41	26.84	2.98	26.81	103.39	71.03
Idaho	—	4.38	4.38	6.45	24.26	14.70	31.39	16.78	22.55	24.58	3.31	10.63	21.01	13.52
Illinois	7.85	5.67	6.65	7.20	22.25	8.87	28.01	18.02	27.08	19.71	2.32	11.24	24.04	14.13
Indiana	7.90	7.11	7.74	6.49	22.39	14.32	27.07	18.15	21.66	21.75	2.61	8.85	24.16	11.52
Iowa	—	1.81	1.81	6.61	23.47	9.03	27.53	17.98	25.35	18.16	2.65	9.04	20.25	11.07
Kansas	—	3.60	3.60	5.37	23.58	14.25	27.35	18.07	26.33	23.90	1.21	10.41	22.38	12.53
Kentucky	—	6.06	6.06	4.24	23.47	9.81	27.99	17.98	16.47	16.17	3.05	8.47	19.21	11.35
Louisiana	—	8.59	8.59	3.80	22.52	7.66	25.75	20.15	21.93	11.85	3.15	7.18	17.23	7.69
Maine	—	—	—	10.03	23.86	18.82	29.60	22.28	21.18	23.05	3.28	9.82	36.04	13.32
Maryland	—	3.35	3.35	12.82	23.18	17.08	29.24	17.13	24.72	24.41	2.65	17.18	29.15	19.41
Massachusetts	—	—	—	12.89	24.08	18.95	29.38	22.44	26.99	26.64	2.44	18.00	52.41	25.56
Michigan	7.94	5.43	7.52	8.08	23.46	14.18	27.36	17.98	19.41	20.86	2.96	10.78	23.90	13.79
Minnesota	—	2.99	2.99	5.84	26.24	14.30	28.58	18.13	27.00	25.24	3.27	11.03	26.98	14.29
Mississippi	—	5.25	5.25	5.42	23.07	10.07	25.71	18.15	22.02	21.63	3.29	7.83	20.39	10.61
Missouri	—	3.66	3.66	9.40	23.08	13.94	26.72	17.68	18.92	21.13	2.72	13.65	23.14	15.82
Montana	—	3.56	3.56	7.46	22.56	13.87	31.25	—	18.38	21.14	2.80	13.73	22.86	15.77
Nebraska	—	1.34	1.34	5.79	23.36	14.11	28.29	—	29.72	24.25	1.33	10.02	22.37	12.44
Nevada	—	4.99	4.99	11.24	24.77	17.02	35.31	—	24.45	25.31	3.01	18.20	30.36	23.43
New Hampshire	—	—	—	12.82	22.60	17.83	28.74	21.12	26.09	24.80	1.68	16.31	46.20	24.37
New Jersey	—	—	—	8.86	23.52	21.84	28.19	—	22.77	23.20	2.20	16.90	34.24	19.20
New Mexico	—	5.01	5.01	4.92	22.62	9.87	26.74	—	28.79	24.88	3.45	22.06	16.86	19.07
New York	—	4.10	4.10	10.08	23.13	16.76	28.14	16.81	20.73	22.04	2.75	15.03	20.13	16.11
North Carolina	—	7.03	7.03	6.51	23.68	15.51	27.50	14.83	26.72	24.42	3.29	10.79	20.94	13.46
North Dakota	—	1.72	1.72	3.10	23.25	14.05	29.23	—	36.87	24.66	2.53	9.48	21.60	11.91
Ohio	7.87	6.30	7.73	7.22	23.40	17.94	28.03	17.94	23.63	23.07	2.31	10.55	20.61	12.91
Oklahoma	—	6.12	6.12	3.21	23.14	13.98	26.78	17.73	29.02	24.45	2.64	7.08	18.35	9.37
Oregon	—	4.73	4.73	7.44	23.20	15.93	36.22	18.65	23.77	24.56	3.18	10.94	22.04	14.23
Pennsylvania	6.53	5.68	6.48	11.35	23.38	8.41	29.88	14.52	24.28	15.97	2.24	11.42	22.71	13.76
Rhode Island	—	—	—	12.42	24.13	19.08	29.53	22.59	21.14	22.27	2.59	16.71	55.64	21.46
South Carolina	—	7.56	7.56	5.01	23.96	15.70	25.88	15.00	16.84	19.06	3.28	7.60	19.57	11.07
South Dakota	—	2.74	2.74	5.67	23.11	13.96	28.49	17.70	30.99	24.85	3.23	10.48	23.48	12.16
Tennessee	—	5.19	5.19	5.31	23.69	14.32	27.17	18.15	25.25	24.62	3.06	8.88	18.25	11.07
Texas	—	5.59	5.59	2.42	22.91	8.64	25.47	16.31	22.81	11.61	2.65	8.36	19.34	9.39
Utah	—	3.85	3.85	9.54	23.93	14.72	31.23	16.79	29.89	26.22	3.11	15.91	20.48	17.27
Vermont	—	—	—	5.49	23.95	18.90	29.75	22.38	19.93	22.38	3.05	18.53	33.03	23.10
Virginia	6.46	6.28	6.42	4.77	23.68	15.60	26.71	14.90	23.21	23.03	3.26	8.61	26.13	11.68
Washington	—	8.26	8.26	10.42	24.72	16.96	36.91	19.95	25.90	26.25	3.22	12.33	18.60	14.30
West Virginia	—	8.83	8.83	3.92	23.97	21.62	28.83	15.00	22.90	23.19	2.50	12.93	21.21	15.87
Wisconsin	—	4.68	4.68	6.54	23.40	14.05	28.92	17.81	24.13	23.56	2.96	10.81	25.43	14.43
Wyoming	—	2.88	2.88	6.18	23.46	14.43	29.26	—	25.65	23.84	2.94	10.46	20.68	12.48
United States	7.33	4.32	5.83	5.90	23.53	8.84	29.53	17.41	23.33	16.07	3.10	9.82	23.64	12.13

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Includes fuel ethanol blended into motor gasoline.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste.
[f] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[g] The U.S. average includes coal coke net imports, which are not allocated to the states.
[h] Electricity sales to ultimate customers.
— = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.
Note: The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table E6. Transportation sector energy price estimates, 2023
(dollars per million Btu)

State	Primary energy											Electricity [g]	Total energy
			Petroleum										
	Coal	Natural gas[a]	Aviation gasoline [b]	Distillate fuel oil [c]	HGL [d]	Jet fuel [e]	Lubricants [b]	Motor gasoline [f]	Residual fuel oil	Total	Total		
Alabama	—	16.98	32.62	28.21	16.69	20.78	105.48	25.62	11.62	26.38	26.37	—	26.37
Alaska	—	17.52	32.62	33.99	17.99	21.32	105.48	42.16	—	27.46	27.46	—	27.46
Arizona	—	15.07	32.62	31.12	17.99	20.86	105.48	33.92	—	31.62	31.56	29.35	31.56
Arkansas	—	12.48	32.62	28.29	18.50	20.75	105.48	25.92	—	26.95	26.94	43.74	26.94
California	—	11.08	32.62	39.03	18.65	20.89	105.48	38.64	22.09	35.04	34.78	38.13	34.78
Colorado	—	17.68	32.62	30.44	17.32	21.46	105.48	29.83	—	28.72	28.70	38.77	28.71
Connecticut	—	18.32	32.62	33.57	18.83	21.67	105.48	29.78	—	30.37	30.35	63.15	30.44
Delaware	—	—	32.62	31.39	18.70	21.46	105.48	29.10	15.10	28.48	28.48	—	28.48
Dist. of Col.	—	18.36	—	31.81	18.86	—	105.48	30.61	—	31.08	30.80	29.12	30.69
Florida	—	14.89	32.62	30.55	20.89	20.19	105.48	26.69	14.80	25.95	25.91	33.20	25.91
Georgia	—	17.53	32.62	29.19	20.12	20.28	105.48	25.53	20.73	25.77	25.76	21.38	25.76
Hawaii	—	—	32.62	42.38	—	20.50	105.48	42.17	16.55	28.51	28.51	—	28.51
Idaho	—	12.40	32.62	32.47	18.38	22.04	105.48	31.39	—	31.58	31.57	—	31.57
Illinois	—	14.42	32.62	31.89	22.45	20.94	105.48	28.01	11.62	28.05	28.05	20.24	28.04
Indiana	—	17.84	32.62	30.76	22.96	20.65	105.48	27.07	11.64	28.30	28.27	37.31	28.28
Iowa	—	11.32	32.62	29.65	20.11	21.08	105.48	27.53	—	28.49	28.49	—	28.49
Kansas	—	14.90	32.62	29.48	19.35	20.75	105.48	27.35	—	28.31	28.28	—	28.28
Kentucky	—	15.09	32.62	29.67	19.75	20.51	105.48	27.99	—	27.36	27.36	—	27.36
Louisiana	—	13.78	32.62	28.05	18.29	20.52	105.48	25.75	5.77	25.24	25.23	32.25	25.23
Maine	—	18.09	32.62	32.96	18.38	21.67	105.48	29.60	15.55	30.29	30.29	—	30.29
Maryland	—	19.23	32.62	31.59	21.20	21.46	105.48	29.24	16.96	29.11	29.10	32.90	29.11
Massachusetts	—	26.90	32.62	32.43	19.07	21.56	105.48	29.38	11.15	28.76	28.76	20.95	28.74
Michigan	—	—	32.62	30.17	19.96	20.34	105.48	27.36	11.64	27.59	27.56	40.07	27.56
Minnesota	—	13.47	32.62	30.52	19.17	21.03	105.48	28.58	—	28.52	28.50	36.20	28.50
Mississippi	—	15.77	32.62	28.06	18.55	20.32	105.48	25.71	13.84	26.61	26.61	—	26.61
Missouri	—	9.33	32.62	28.67	18.04	20.75	105.48	26.72	8.33	27.21	27.20	28.63	27.20
Montana	—	10.30	32.62	32.76	16.41	22.04	105.48	31.25	—	31.43	31.43	—	31.43
Nebraska	—	31.82	32.62	30.25	20.00	20.75	105.48	28.29	—	29.24	29.24	—	29.24
Nevada	—	16.56	32.62	31.71	18.69	20.99	105.48	35.31	—	30.53	30.46	37.38	30.46
New Hampshire	—	20.64	32.62	31.48	18.41	21.67	105.48	28.74	—	29.02	29.02	—	29.02
New Jersey	—	16.79	32.62	30.36	19.70	21.51	105.48	28.19	17.63	27.34	27.32	35.83	27.34
New Mexico	—	14.49	32.62	29.52	18.00	20.75	105.48	26.74	—	28.11	28.08	—	28.08
New York	—	27.50	32.62	32.64	17.17	21.69	105.48	28.14	15.02	27.49	27.49	46.00	27.64
North Carolina	—	5.73	32.62	30.17	21.17	20.29	105.48	27.50	15.25	27.46	27.41	25.98	27.41
North Dakota	—	8.06	32.62	31.28	19.35	20.75	105.48	29.23	—	30.12	30.12	—	30.12
Ohio	—	14.05	32.62	30.21	21.97	21.13	105.48	28.03	11.35	28.51	28.48	17.31	28.48
Oklahoma	—	11.92	32.62	28.43	18.58	20.75	105.48	26.78	—	26.98	26.91	—	26.91
Oregon	—	6.87	32.62	33.02	21.19	21.31	105.48	36.22	22.37	33.85	33.85	33.45	33.85
Pennsylvania	—	10.43	32.62	33.02	21.23	21.27	105.48	29.88	15.98	30.30	30.26	29.92	30.26
Rhode Island	—	34.66	32.62	32.74	19.87	21.67	105.48	29.53	15.52	30.12	30.12	50.67	30.16
South Carolina	—	8.49	32.62	28.51	19.77	20.04	105.48	25.88	15.10	26.42	26.41	—	26.41
South Dakota	—	—	32.62	30.49	19.02	19.27	105.48	28.49	—	29.16	29.16	—	29.16
Tennessee	—	10.04	32.62	28.81	19.24	20.75	105.48	27.17	11.08	27.02	26.97	—	26.97
Texas	—	12.11	32.62	27.89	16.69	20.91	105.48	25.47	11.45	25.39	25.38	21.39	25.38
Utah	—	24.36	32.62	32.77	15.84	22.39	105.48	31.23	—	30.52	30.51	36.00	30.52
Vermont	—	—	32.62	33.39	15.99	21.67	105.48	29.75	15.84	30.48	30.46	—	30.46
Virginia	—	32.51	32.62	29.70	19.87	20.10	105.48	26.71	10.13	26.51	26.52	30.53	26.53
Washington	—	20.39	32.62	34.20	23.40	20.86	105.48	36.91	22.09	32.04	32.04	29.80	32.03
West Virginia	—	16.46	32.62	30.98	19.01	20.28	105.48	28.83	—	29.96	29.96	—	29.96
Wisconsin	—	8.07	32.62	30.49	19.30	21.60	105.48	28.92	11.11	29.45	29.43	50.43	29.43
Wyoming	—	17.64	32.62	30.81	18.47	21.59	105.48	29.26	—	30.28	30.28	—	30.28
United States	—	13.03	32.62	31.22	19.52	20.90	105.48	29.00	16.51	28.54	28.51	37.43	28.52

[a] Transportation use of natural gas as vehicle fuel only.
[b] State price estimates are not available. The U.S. price estimate is assigned to all states.
[c] Includes biodiesel and renewable diesel blended into distillate fuel oil. Includes biodiesel and renewable diesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum."
[f] Includes fuel ethanol blended into motor gasoline.
[g] Electricity sales to ultimate customers. Sales to public railroads and railway systems only. Excludes electric vehicles.
— = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table E7. Electric power sector energy price estimates, 2023
(dollars per million Btu)

State	Coal	Natural gas [a]	Petroleum: Distillate fuel oil	Petroleum: Petroleum coke	Petroleum: Residual fuel oil	Petroleum: Total	Nuclear fuel	Biomass: Wood and waste [b]	Electricity imports [c,d]	Total energy [e]
Alabama	3.04	3.18	23.02	—	—	23.02	0.66	2.93	—	2.10
Alaska	4.57	8.16	25.12	—	—	25.12	—	—	—	9.32
Arizona	3.04	4.30	23.97	—	—	23.97	0.64	2.93	—	2.74
Arkansas	2.19	2.69	22.02	—	—	22.02	0.47	2.93	—	1.89
California	—	8.33	25.90	—	—	25.90	0.57	2.93	18.72	6.66
Colorado	2.11	3.84	26.51	—	—	26.51	—	2.93	—	3.03
Connecticut	—	3.68	21.04	—	18.47	19.16	0.59	2.93	—	2.37
Delaware	3.55	2.07	22.44	—	17.95	20.29	—	2.93	—	2.23
Dist. of Col.	—	—	—	—	—	—	—	—	—	—
Florida	3.37	4.00	22.82	5.20	15.21	8.09	0.49	2.62	—	3.39
Georgia	4.48	3.05	24.66	—	—	24.43	0.77	2.93	—	2.43
Hawaii	—	—	22.17	—	19.63	19.87	—	2.93	—	19.49
Idaho	—	6.52	24.66	—	—	24.66	—	2.93	—	6.42
Illinois	2.09	2.84	23.88	—	—	23.88	0.63	0.71	—	1.21
Indiana	2.99	2.92	21.24	—	—	21.24	—	0.60	—	2.98
Iowa	1.76	2.87	21.80	—	—	21.80	—	2.93	—	2.18
Kansas	1.70	3.08	20.56	—	—	20.56	0.62	2.93	—	1.57
Kentucky	2.50	3.41	22.14	—	—	22.14	—	0.86	—	2.70
Louisiana	2.97	2.84	19.58	4.49	—	4.63	0.57	2.93	—	2.39
Maine	5.40	7.22	21.04	—	18.47	18.55	—	2.93	18.72	7.70
Maryland	3.55	2.45	22.44	—	19.42	20.82	0.59	2.93	—	1.64
Massachusetts	—	7.31	21.04	—	14.70	18.10	—	2.93	—	7.11
Michigan	2.58	2.66	19.60	2.89	13.56	3.91	0.54	2.93	18.72	2.29
Minnesota	2.40	4.94	20.07	—	—	20.07	0.77	1.04	18.72	3.53
Mississippi	3.96	2.75	20.99	—	—	20.99	0.65	2.93	—	2.41
Missouri	1.92	2.85	22.06	—	—	22.06	0.70	—	—	1.92
Montana	2.39	2.30	24.67	4.49	—	4.76	—	2.93	18.72	2.57
Nebraska	1.33	2.99	21.76	—	—	21.75	0.66	2.93	—	1.29
Nevada	5.15	7.24	26.76	—	—	26.76	—	2.93	—	6.99
New Hampshire	5.40	5.70	21.04	—	17.00	18.72	0.59	2.93	—	2.02
New Jersey	—	2.05	19.74	—	—	19.74	0.61	2.93	—	1.30
New Mexico	3.57	2.61	24.67	—	—	24.67	—	2.93	—	3.07
New York	—	2.93	19.74	—	18.17	18.56	0.64	2.93	18.72	2.70
North Carolina	4.68	5.35	24.50	—	—	24.50	0.55	2.93	—	3.15
North Dakota	1.86	3.45	21.07	—	—	21.07	—	—	18.72	2.26
Ohio	2.67	2.18	23.56	2.97	—	4.83	0.62	2.93	—	2.12
Oklahoma	2.27	2.97	22.10	—	—	22.10	—	2.93	—	2.88
Oregon	—	5.07	—	—	—	—	—	2.93	—	5.00
Pennsylvania	2.31	2.07	19.74	—	18.98	19.70	0.64	2.93	—	1.52
Rhode Island	—	3.69	21.04	—	—	21.04	—	2.93	—	3.72
South Carolina	3.57	3.95	22.28	—	—	22.28	0.55	0.85	—	1.77
South Dakota	2.25	2.66	24.42	—	—	24.42	—	—	—	2.65
Tennessee	3.54	2.79	20.98	—	—	20.98	0.59	2.93	—	1.73
Texas	2.08	2.54	20.90	—	—	20.90	0.59	2.93	18.72	2.19
Utah	2.51	7.99	24.65	—	—	24.65	—	2.93	—	4.46
Vermont	—	2.89	21.04	—	—	21.04	—	2.93	18.72	16.55
Virginia	5.20	3.31	19.71	—	—	19.70	0.59	3.72	—	2.23
Washington	3.79	5.78	25.90	—	—	25.90	0.66	2.68	18.72	3.97
West Virginia	2.81	1.93	21.71	—	—	21.71	—	2.93	—	2.81
Wisconsin	2.48	3.84	19.67	5.15	—	14.42	0.59	2.86	—	2.66
Wyoming	1.88	6.91	24.40	—	—	24.40	—	—	—	2.11
United States	2.55	3.55	22.49	3.89	19.45	15.11	0.61	2.78	18.72	2.62

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Includes small amount of other biomass liquids that are biodiesel.
[c] Electricity imported from Canada and Mexico.
[d] State price estimates are not available. The U.S. price estimate is assigned to all states.
[e] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
— = No consumption.

Note: The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table E8. Primary energy, electricity, and total energy expenditure estimates, 2023
(million dollars)

State	Primary energy												Electric power sector [h,i,k]	Electricity [l]	Total energy [h,j]
			Petroleum								Biomass				
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Nuclear fuel	Wood and waste [g]	Total [h,i,j]			
Alabama	771	3,323	4,260	177	232	9,702	105	739	15,215	312	454	20,075	-2,390	9,715	27,400
Alaska	101	1,009	2,518	28	2,701	1,330	(s)	376	6,953	—	20	8,083	-406	1,276	8,953
Arizona	428	3,267	4,546	253	1,651	12,139	—	722	19,311	212	44	23,261	-2,404	10,471	31,328
Arkansas	404	2,661	3,224	151	142	4,758	—	533	8,808	73	151	12,097	-1,003	4,720	15,814
California	147	27,338	33,737	1,386	10,685	61,287	3,338	3,217	113,651	106	397	142,001	-6,091	59,189	195,100
Colorado	436	3,596	3,556	369	1,663	8,377	—	777	14,742	—	52	18,826	-1,059	6,510	24,277
Connecticut	—	2,385	2,959	365	200	5,040	23	390	8,977	84	88	11,535	-774	6,468	17,229
Delaware	1	682	442	103	238	1,743	6	91	2,622	—	6	3,311	-65	1,398	4,644
Dist. of Col.	—	385	107	2	—	373	—	48	530	—	1	916	—	1,630	2,546
Florida	446	8,065	9,670	454	6,595	30,149	878	1,688	49,435	154	230	58,329	-6,524	33,953	85,759
Georgia	806	5,076	6,241	391	2,601	15,521	133	1,318	26,205	302	608	32,997	-2,508	15,711	46,199
Hawaii	—	126	908	81	1,953	2,126	1,285	101	6,456	—	8	6,590	-1,441	3,431	8,580
Idaho	5	1,105	2,223	192	192	3,152	(s)	218	5,978	—	105	7,192	-311	2,331	9,212
Illinois	999	8,646	8,608	1,064	3,308	13,924	14	1,565	28,483	640	52	38,820	-1,831	15,063	52,052
Indiana	2,541	5,610	6,448	442	464	9,758	26	1,210	18,348	—	56	26,555	-2,221	10,908	35,242
Iowa	357	3,197	4,256	826	136	5,010	1	568	10,797	—	43	14,394	-519	5,122	18,998
Kansas	318	2,142	3,725	195	182	4,211	47	363	8,723	66	15	11,264	-523	4,349	15,089
Kentucky	1,265	1,972	4,357	484	1,767	7,305	1	777	14,691	—	80	18,008	-1,572	7,036	23,471
Louisiana	196	5,930	5,056	4,638	425	6,689	251	4,895	21,955	73	275	28,430	-1,392	7,960	34,997
Maine	7	584	1,976	389	114	2,513	46	233	5,271	—	186	6,190	-409	2,362	8,144
Maryland	106	2,688	2,728	286	817	8,621	21	557	13,030	92	50	15,966	-493	8,179	23,653
Massachusetts	—	5,422	4,294	391	1,438	8,759	25	662	15,570	—	107	21,098	-857	11,607	31,848
Michigan	979	7,382	4,638	967	957	14,084	54	1,205	21,905	159	271	30,969	-2,327	13,315	41,957
Minnesota	367	4,048	4,629	785	1,005	8,270	2	780	15,470	96	150	20,555	-1,398	7,960	27,117
Mississippi	199	2,209	3,309	203	173	5,188	27	421	9,321	80	145	11,955	-1,409	5,233	15,779
Missouri	878	3,281	4,749	499	599	10,370	(s)	755	16,972	68	44	21,243	-1,174	8,370	28,439
Montana	315	644	1,583	231	187	2,017	—	277	4,296	—	43	5,307	-375	1,623	6,555
Nebraska	261	1,535	3,187	143	132	3,056	(s)	318	6,837	47	12	8,692	-352	3,070	11,410
Nevada	150	2,942	2,145	128	1,659	4,942	—	314	9,189	—	19	12,300	-1,480	5,006	15,826
New Hampshire	10	617	1,196	468	135	2,373	28	140	4,339	59	94	5,119	-293	2,441	7,266
New Jersey	—	5,472	4,488	526	2,342	12,176	388	989	20,910	181	71	26,634	-725	10,762	36,671
New Mexico	271	1,023	3,143	163	178	3,082	—	368	6,934	—	45	8,272	-606	2,669	10,336
New York	20	12,196	11,098	1,032	5,851	17,730	340	1,679	37,730	185	233	50,849	-2,200	25,482	74,131
North Carolina	735	4,723	5,576	810	1,903	16,235	9	1,228	25,761	245	244	31,708	-3,200	14,125	42,633
North Dakota	596	488	2,519	184	101	1,472	—	301	4,576	—	2	5,724	-656	2,247	7,315
Ohio	1,591	8,419	7,898	842	1,023	15,819	35	1,739	27,357	105	150	37,623	-2,288	16,063	51,399
Oklahoma	158	3,181	4,841	222	984	6,115	40	565	12,766	—	78	16,183	-1,239	6,316	21,260
Oregon	3	2,449	4,093	175	637	6,401	15	414	11,736	—	200	14,389	-897	5,982	19,473
Pennsylvania	1,360	9,979	10,560	1,648	1,335	15,881	26	1,811	31,261	505	312	43,417	-2,952	17,401	57,867
Rhode Island	—	909	807	73	47	1,265	1	134	2,328	—	20	3,256	-280	1,579	4,555
South Carolina	588	2,062	3,658	217	361	8,660	144	715	13,756	322	225	16,952	-1,673	8,523	23,803
South Dakota	52	574	1,314	121	76	1,628	1	219	3,359	—	11	3,996	-98	1,416	5,314
Tennessee	764	2,354	5,053	218	1,762	11,139	4	997	19,174	233	110	22,636	-1,169	10,553	32,020
Texas	1,695	14,659	29,084	21,884	6,564	44,650	1,787	11,591	115,561	250	229	132,399	-7,206	48,715	173,908
Utah	447	2,723	2,972	151	982	4,802	(s)	402	9,308	—	31	12,510	-1,160	2,974	14,324
Vermont	—	125	724	236	30	1,007	4	106	2,107	—	50	2,958	-694	940	3,205
Virginia	282	3,798	5,376	571	2,301	13,044	33	977	22,303	183	370	26,935	-1,629	14,128	39,434
Washington	194	3,371	5,259	359	2,303	11,565	1,455	615	21,557	58	289	25,516	-1,162	8,471	32,825
West Virginia	1,364	840	2,512	340	28	2,851	1	369	6,101	—	29	8,334	-1,411	3,288	10,211
Wisconsin	560	4,062	4,470	700	274	9,014	16	915	15,388	60	170	20,239	-1,383	8,711	27,568
Wyoming	711	806	2,244	133	65	1,125	—	208	3,774	—	11	5,303	-757	1,372	5,918
United States	23,883	202,081	258,966	46,696	71,503	478,453	10,611	51,599	917,829	4,950	6,684	1,157,413	-76,987	488,124	1,568,551

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Includes biodiesel and renewable diesel blended into distillate fuel oil. Includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."
[e] Includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Includes small amount of other biomass liquids that are biodiesel.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[j] The U.S. total includes -$500 million of coal coke net imports, which are not allocated to the states.
[k] Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
[l] Electricity sales to ultimate customers.
— = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.
Where shown, (s) = Value less than +0.5 and greater than -0.5 million dollars.
Note: Totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table E9. Total end-use energy expenditure estimates, 2023
(million dollars)

State	Primary energy											Electricity [j]	Total energy [h,i]
			Petroleum							Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g]	Total [h,i]		
Alabama	165	1,856	4,256	177	232	9,702	105	739	15,211	453	17,685	9,715	27,400
Alaska	52	785	2,385	28	2,701	1,330	(s)	376	6,821	20	7,677	1,276	8,953
Arizona	25	1,496	4,538	253	1,651	12,139	—	722	19,302	33	20,857	10,471	31,328
Arkansas	17	2,129	3,214	151	142	4,758	—	533	8,797	150	11,094	4,720	15,814
California	147	21,882	33,729	1,386	10,685	61,287	3,338	3,217	113,643	239	135,911	59,189	195,100
Colorado	10	3,046	3,479	369	1,663	8,377	—	777	14,665	46	17,767	6,510	24,277
Connecticut	—	1,750	2,951	365	200	5,040	4	390	8,951	60	10,761	6,468	17,229
Delaware	—	625	439	103	238	1,743	4	91	2,618	4	3,246	1,398	4,644
Dist. of Col.	—	385	107	2	—	373	—	48	530	1	916	1,630	2,546
Florida	17	2,309	9,622	454	6,595	30,149	877	1,631	49,329	150	51,805	33,953	85,759
Georgia	31	3,734	6,230	391	2,601	15,521	133	1,318	26,194	529	30,488	15,711	46,199
Hawaii	—	126	604	81	1,953	2,126	154	101	5,020	3	5,149	3,431	8,580
Idaho	5	798	2,223	192	192	3,152	(s)	218	5,978	101	6,881	2,331	9,212
Illinois	414	8,051	8,600	1,064	3,308	13,924	14	1,565	28,475	49	36,989	15,063	52,052
Indiana	1,154	4,802	6,423	442	464	9,758	26	1,210	18,323	54	24,333	10,908	35,242
Iowa	69	2,989	4,237	826	136	5,010	1	568	10,779	38	13,875	5,122	18,998
Kansas	9	2,014	3,706	195	182	4,211	47	363	8,704	13	10,741	4,349	15,089
Kentucky	106	1,576	4,341	484	1,767	7,305	1	777	14,675	79	16,436	7,036	23,471
Louisiana	36	4,829	5,054	4,638	425	6,689	251	4,843	21,901	271	27,037	7,960	34,997
Maine	—	389	1,975	389	114	2,513	29	233	5,254	139	5,782	2,362	8,144
Maryland	29	2,405	2,716	286	817	8,621	9	557	13,007	33	15,474	8,179	23,653
Massachusetts	—	4,609	4,281	391	1,438	8,759	17	662	15,550	83	20,241	11,607	31,848
Michigan	361	6,230	4,620	967	957	14,084	53	1,161	21,842	209	28,642	13,315	41,957
Minnesota	51	3,513	4,611	785	1,005	8,270	2	780	15,452	142	19,158	7,960	27,117
Mississippi	12	1,069	3,308	203	173	5,188	27	421	9,320	145	10,546	5,233	15,779
Missouri	62	3,032	4,708	499	599	10,370	(s)	755	16,931	44	20,069	8,370	28,439
Montana	12	619	1,581	231	187	2,017	—	241	4,258	43	4,932	1,623	6,555
Nebraska	16	1,490	3,175	143	132	3,056	(s)	318	6,825	10	8,341	3,070	11,410
Nevada	22	1,595	2,142	128	1,659	4,942	—	314	9,186	17	10,820	5,006	15,826
New Hampshire	—	436	1,191	468	135	2,373	22	140	4,328	62	4,826	2,441	7,266
New Jersey	—	4,948	4,483	526	2,342	12,176	388	989	20,905	56	25,909	10,762	36,671
New Mexico	7	702	3,122	163	178	3,082	—	368	6,913	44	7,666	2,669	10,336
New York	20	10,770	11,080	1,032	5,851	17,730	289	1,679	37,661	198	48,649	25,482	74,131
North Carolina	42	2,514	5,552	810	1,903	16,235	9	1,228	25,737	216	28,508	14,125	42,633
North Dakota	119	383	2,505	184	101	1,472	—	301	4,563	2	5,068	2,247	7,315
Ohio	743	7,157	7,869	842	1,023	15,819	35	1,702	27,291	144	35,336	16,063	51,399
Oklahoma	20	2,084	4,836	222	984	6,115	40	565	12,761	78	14,944	6,316	21,260
Oregon	3	1,568	4,093	175	637	6,401	15	414	11,736	184	13,491	5,982	19,473
Pennsylvania	1,008	7,947	10,547	1,648	1,335	15,881	25	1,811	31,247	264	40,465	17,401	57,867
Rhode Island	—	642	802	73	47	1,265	1	134	2,323	12	2,977	1,579	4,555
South Carolina	14	1,316	3,637	217	361	8,660	144	715	13,735	215	15,280	8,523	23,803
South Dakota	12	523	1,306	121	76	1,628	1	219	3,351	11	3,898	1,416	5,314
Tennessee	150	2,062	5,025	218	1,762	11,139	4	997	19,146	108	21,467	10,553	32,020
Texas	26	9,453	29,026	21,884	6,564	44,650	1,787	11,591	115,503	211	125,193	48,715	173,908
Utah	27	1,993	2,964	151	982	4,802	(s)	402	9,301	29	11,350	2,974	14,324
Vermont	—	125	724	236	30	1,007	4	106	2,106	33	2,264	940	3,205
Virginia	204	2,558	5,351	571	2,301	13,044	33	977	22,277	267	25,306	14,128	39,434
Washington	12	2,519	5,253	359	2,303	11,565	1,455	615	21,550	272	24,354	8,471	32,825
West Virginia	55	776	2,475	340	28	2,851	1	369	6,063	29	6,923	3,288	10,211
Wisconsin	32	3,331	4,448	700	274	9,014	16	912	15,364	129	18,856	8,711	27,568
Wyoming	68	703	2,233	133	65	1,125	—	208	3,764	11	4,546	1,372	5,918
United States	5,386	154,644	257,778	46,696	71,503	478,453	9,363	51,371	915,165	5,732	1,080,427	488,124	1,568,551

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Includes biodiesel and renewable diesel blended into distillate fuel oil. Includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."
[e] Includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] The U.S. total includes -$500 million of coal coke net imports, which are not allocated to the states.
[j] Electricity sales to ultimate customers.
— = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.
Where shown, (s) = Value less than 0.5 million dollars.
Notes: · Total end-use energy expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. · Totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table E10. Residential sector energy expenditure estimates, 2023
(million dollars)

State	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
Alabama	—	551	3	115	1	119	18	688	4,594	5,282
Alaska	—	236	233	13	(s)	246	16	498	490	988
Arizona	—	876	(s)	162	(s)	162	27	1,066	5,466	6,532
Arkansas	—	514	1	109	(s)	110	30	655	2,251	2,906
California	—	10,121	19	749	23	792	137	11,049	24,440	35,489
Colorado	—	1,653	4	282	(s)	286	38	1,978	2,859	4,837
Connecticut	—	887	1,355	293	3	1,650	50	2,587	3,751	6,338
Delaware	—	192	68	65	3	135	3	331	776	1,107
Dist. of Col.	—	172	17	1	—	18	—	190	390	580
Florida	—	465	2	234	1	237	1	703	20,652	21,355
Georgia	—	2,319	2	218	2	222	23	2,565	7,997	10,561
Hawaii	—	32	(s)	25	—	25	(s)	57	1,142	1,198
Idaho	—	337	21	166	(s)	186	38	562	1,083	1,644
Illinois	—	4,207	12	576	4	592	36	4,835	6,804	11,639
Indiana	—	1,439	30	307	8	346	29	1,814	4,741	6,556
Iowa	—	710	23	406	1	430	18	1,158	1,940	3,098
Kansas	—	859	1	157	1	158	10	1,027	1,849	2,876
Kentucky	—	633	16	161	7	184	21	839	3,106	3,946
Louisiana	—	474	(s)	57	(s)	57	2	533	3,666	4,199
Maine	—	57	755	230	71	1,055	53	1,165	1,349	2,514
Maryland	—	1,243	385	206	9	601	26	1,870	4,333	6,204
Massachusetts	—	2,354	1,871	312	12	2,195	61	4,610	5,734	10,343
Michigan	—	3,271	77	795	6	878	108	4,257	6,130	10,388
Minnesota	—	1,559	136	575	3	714	58	2,331	3,392	5,723
Mississippi	—	304	(s)	142	(s)	143	4	451	2,453	2,904
Missouri	—	1,579	5	407	2	414	32	2,025	4,398	6,423
Montana	—	225	11	181	(s)	193	34	451	722	1,173
Nebraska	—	494	3	86	(s)	89	7	590	1,195	1,785
Nevada	—	859	10	82	(s)	92	14	964	2,252	3,216
New Hampshire	—	148	511	354	23	888	50	1,086	1,310	2,396
New Jersey	—	2,851	664	117	2	783	41	3,676	5,031	8,706
New Mexico	—	429	(s)	128	(s)	129	38	595	1,016	1,611
New York	—	7,011	2,709	792	134	3,636	130	10,776	11,148	21,923
North Carolina	—	1,097	141	531	43	715	32	1,845	7,593	9,438
North Dakota	—	126	25	116	(s)	142	1	269	558	827
Ohio	—	3,531	212	492	17	721	94	4,346	7,647	11,993
Oklahoma	—	887	1	160	(s)	161	29	1,077	2,877	3,955
Oregon	—	739	55	70	8	134	84	957	2,603	3,560
Pennsylvania	—	3,191	2,164	493	63	2,720	166	6,077	9,472	15,549
Rhode Island	—	354	366	60	1	427	10	791	809	1,600
South Carolina	—	534	13	135	7	155	4	693	4,228	4,921
South Dakota	—	140	15	85	1	101	6	247	647	894
Tennessee	—	736	7	152	10	170	23	928	5,041	5,970
Texas	—	3,478	(s)	456	(s)	457	33	3,968	24,389	28,356
Utah	—	1,107	4	58	(s)	62	24	1,192	1,269	2,461
Vermont	—	63	283	174	19	477	27	566	453	1,020
Virginia	—	1,253	330	399	22	751	94	2,099	6,146	8,244
Washington	—	1,350	122	227	1	350	79	1,780	4,277	6,056
West Virginia	—	335	38	93	7	138	23	496	1,438	1,934
Wisconsin	—	1,419	114	572	3	689	64	2,172	3,750	5,922
Wyoming	—	185	4	99	(s)	103	10	298	338	635
United States	—	69,586	12,838	12,877	521	26,236	1,962	97,783	231,993	329,776

[a] Consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Includes biodiesel blended into distillate fuel oil and biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers.

— = No consumption.
Where shown, (s) = Value less than 0.5 million dollars.
Note: Totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table E11. Commercial sector energy expenditure estimates, 2023
(million dollars)

State	Primary energy										Electricity [h]	Total energy [g]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f]	Total [g]		
Alabama	—	361	95	34	1	143	(s)	272	3	636	2,924	3,560
Alaska	52	171	234	13	(s)	22	—	269	3	496	543	1,039
Arizona	—	447	160	65	(s)	336	—	561	5	1,013	3,845	4,857
Arkansas	—	666	63	20	(s)	76	—	159	5	831	1,209	2,040
California	—	4,431	644	265	4	2,131	—	3,043	34	7,508	27,007	34,515
Colorado	(s)	648	117	57	(s)	235	—	410	7	1,064	2,409	3,473
Connecticut	—	677	241	60	1	145	4	450	9	1,136	2,273	3,409
Delaware	—	147	23	17	(s)	37	(s)	78	1	225	491	716
Dist. of Col.	—	207	14	(s)	(s)	12	—	26	1	234	1,191	1,425
Florida	—	848	211	133	1	794	—	1,138	10	1,996	11,621	13,616
Georgia	—	551	153	71	2	335	—	562	4	1,117	5,498	6,615
Hawaii	—	92	33	54	—	73	—	159	3	254	1,092	1,347
Idaho	—	198	60	20	(s)	54	—	134	7	340	601	940
Illinois	4	2,170	126	52	1	383	—	562	7	2,743	5,124	7,867
Indiana	5	756	82	41	3	208	(s)	335	9	1,105	2,889	3,994
Iowa	1	488	104	37	(s)	83	—	224	5	718	1,302	2,019
Kansas	—	525	42	19	(s)	86	—	148	2	675	1,707	2,382
Kentucky	—	412	66	38	2	118	—	224	4	640	2,196	2,836
Louisiana	—	328	65	18	(s)	113	—	197	(s)	525	2,481	3,006
Maine	—	140	226	154	8	50	4	442	10	592	718	1,310
Maryland	—	953	162	48	3	273	(s)	487	5	1,446	3,456	4,902
Massachusetts	—	1,678	323	65	3	225	2	620	19	2,316	4,763	7,080
Michigan	—	1,621	142	75	3	310	(s)	529	20	2,171	4,895	7,066
Minnesota	(s)	1,109	121	77	1	151	(s)	350	15	1,474	2,801	4,275
Mississippi	—	227	66	27	(s)	65	—	158	1	386	1,760	2,146
Missouri	(s)	814	78	48	1	189	—	316	9	1,139	2,958	4,098
Montana	(s)	260	13	42	(s)	25	—	80	6	345	613	958
Nebraska	—	347	37	13	(s)	54	(s)	104	2	453	986	1,440
Nevada	—	469	62	31	(s)	164	—	257	3	729	1,473	2,201
New Hampshire	—	156	116	107	2	50	19	294	9	460	827	1,286
New Jersey	—	1,613	229	19	1	329	(s)	578	14	2,205	5,052	7,257
New Mexico	—	255	31	26	(s)	58	—	116	7	377	999	1,376
New York	—	2,852	1,125	174	13	460	17	1,789	38	4,678	12,866	17,544
North Carolina	7	613	149	138	3	351	(s)	641	6	1,267	4,662	5,929
North Dakota	(s)	128	77	27	(s)	16	—	120	(s)	249	801	1,050
Ohio	—	1,308	245	81	3	468	—	797	17	2,122	4,984	7,106
Oklahoma	—	521	82	32	(s)	125	—	238	6	766	2,158	2,924
Oregon	—	390	59	75	1	182	—	316	16	722	2,291	3,012
Pennsylvania	(s)	2,059	408	132	10	459	(s)	1,009	34	3,101	4,033	7,134
Rhode Island	—	181	70	11	(s)	32	(s)	114	2	297	645	942
South Carolina	—	289	64	46	(s)	195	1	306	1	596	2,618	3,214
South Dakota	—	103	19	9	(s)	22	1	50	1	154	511	665
Tennessee	—	552	102	35	1	197	—	335	4	891	4,140	5,031
Texas	—	1,978	328	161	2	692	—	1,183	6	3,167	14,629	17,796
Utah	—	588	73	73	(s)	74	—	220	4	812	1,135	1,947
Vermont	—	52	83	59	1	22	2	167	5	224	343	566
Virginia	2	731	179	118	4	326	(s)	628	25	1,385	6,604	7,990
Washington	—	765	163	85	1	314	—	563	14	1,342	3,012	4,354
West Virginia	—	272	48	18	1	56	—	123	4	399	791	1,191
Wisconsin	—	932	80	66	1	180	—	327	12	1,271	2,963	4,233
Wyoming	(s)	153	39	21	(s)	14	—	75	2	230	451	681
United States	72	38,230	7,529	3,110	80	11,512	52	22,283	436	61,021	177,342	238,363

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Includes biodiesel blended into distillate fuel oil and biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Includes fuel ethanol blended into motor gasoline.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] Electricity sales to ultimate customers.

— = No consumption.
Where shown, (s) = Value less than 0.5 million dollars.
Notes: · Totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table E12. Industrial sector energy expenditure estimates, 2023
(million dollars)

State	Primary energy												Electricity [h]	Total energy [f,g]
	Coal			Natural gas [a]	Petroleum						Biomass	Total [f,g]		
	Coking coal	Steam coal	Total		Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e]			
Alabama	91	75	165	943	474	25	116	56	510	1,181	431	2,720	2,197	4,917
Alaska	—	(s)	(s)	377	406	2	23	(s)	298	729	(s)	1,107	243	1,349
Arizona	—	25	25	144	704	20	336	—	497	1,559	1	1,730	1,159	2,889
Arkansas	—	17	17	948	445	21	100	—	397	963	115	2,042	1,260	3,303
California	—	147	147	6,971	1,799	359	1,225	1	2,227	5,612	68	12,798	7,648	20,446
Colorado	—	10	10	734	605	26	190	—	606	1,427	1	2,172	1,230	3,402
Connecticut	—	—	—	179	72	7	61	(s)	302	442	2	623	405	1,028
Delaware	—	—	—	286	34	15	21	(s)	61	131	(s)	417	131	549
Dist. of Col.	—	—	—	—	3	(s)	6	—	43	52	—	52	19	71
Florida	—	17	17	897	890	70	653	18	967	2,597	139	3,651	1,673	5,324
Georgia	—	31	31	838	684	82	174	12	962	1,915	502	3,286	2,206	5,491
Hawaii	—	—	—	2	39	2	63	48	73	225	(s)	227	1,197	1,424
Idaho	—	5	5	262	289	6	95	(s)	137	527	55	849	648	1,497
Illinois	217	194	410	1,672	940	428	287	13	1,226	2,894	6	4,983	3,106	8,089
Indiana	930	219	1,149	2,581	736	85	148	9	942	1,919	16	5,665	3,276	8,941
Iowa	—	68	68	1,791	1,014	381	103	1	427	1,926	15	3,801	1,880	5,682
Kansas	—	9	9	620	658	19	121	47	233	1,078	1	1,709	793	2,501
Kentucky	—	106	106	530	450	284	78	1	585	1,397	53	2,087	1,733	3,820
Louisiana	—	36	36	4,023	614	4,558	106	63	4,616	9,956	269	14,285	1,811	16,095
Maine	—	—	—	191	91	5	35	20	104	255	75	522	295	817
Maryland	—	29	29	201	136	28	88	1	399	652	1	883	344	1,226
Massachusetts	—	—	—	572	117	12	122	2	499	752	3	1,327	1,089	2,416
Michigan	318	43	361	1,338	494	88	223	2	881	1,689	80	3,468	2,289	5,758
Minnesota	—	51	51	838	955	124	177	2	597	1,855	69	2,813	1,765	4,578
Mississippi	—	12	12	538	338	30	52	(s)	269	688	140	1,378	1,020	2,398
Missouri	—	62	62	638	624	40	136	(s)	517	1,317	2	2,019	1,012	3,031
Montana	—	12	12	134	201	8	59	—	183	451	3	600	288	888
Nebraska	—	16	16	637	615	44	101	—	219	979	1	1,633	888	2,521
Nevada	—	22	22	245	427	14	85	—	225	750	(s)	1,017	1,281	2,298
New Hampshire	—	—	—	131	46	6	28	3	74	157	2	290	304	594
New Jersey	—	—	—	465	247	386	197	—	750	1,580	1	2,045	633	2,679
New Mexico	—	7	7	13	270	9	80	—	256	614	(s)	634	655	1,289
New York	—	20	20	881	268	60	425	40	1,161	1,955	31	2,886	1,042	3,928
North Carolina	—	35	35	793	496	134	193	6	865	1,694	177	2,699	1,868	4,568
North Dakota	—	119	119	129	964	41	55	—	244	1,303	(s)	1,551	889	2,440
Ohio	690	54	743	2,295	796	262	237	35	1,334	2,663	33	5,735	3,430	9,165
Oklahoma	—	20	20	655	653	24	119	40	379	1,214	42	1,932	1,281	3,213
Oregon	—	3	3	439	323	22	126	1	276	748	84	1,274	1,085	2,360
Pennsylvania	953	55	1,008	2,679	991	1,011	241	6	1,407	3,656	64	7,406	3,852	11,258
Rhode Island	—	—	—	104	20	2	19	1	111	153	(s)	258	119	377
South Carolina	—	14	14	492	255	30	85	7	502	879	210	1,596	1,677	3,273
South Dakota	—	12	12	281	243	27	41	(s)	172	484	4	780	259	1,039
Tennessee	—	150	150	757	281	30	170	3	722	1,207	81	2,195	1,372	3,568
Texas	—	26	26	3,986	3,967	21,246	518	204	10,256	36,191	172	40,374	9,685	50,060
Utah	—	27	27	292	341	18	73	(s)	286	718	1	1,038	564	1,602
Vermont	—	—	—	11	78	3	15	2	67	165	(s)	176	145	321
Virginia	157	45	202	546	356	50	107	11	674	1,198	148	2,094	1,353	3,447
Washington	—	12	12	399	490	39	198	1	375	1,102	179	1,691	1,173	2,864
West Virginia	—	55	55	168	397	229	38	1	280	945	1	1,170	1,058	2,229
Wisconsin	—	32	32	977	573	55	159	16	712	1,515	53	2,577	1,999	4,576
Wyoming	—	68	68	364	570	12	35	—	153	771	(s)	1,203	583	1,787
United States	3,354	1,960	5,314	45,991	27,479	30,480	8,143	674	40,057	106,833	3,333	160,971	77,913	238,884

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Includes fuel ethanol blended into motor gasoline.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste.
[f] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[g] The U.S. total includes -$500 million of coal coke net imports, which are not allocated to the states.
[h] Electricity sales to ultimate customers.

— = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Where shown, (s) = Value less than 0.5 million dollars.

Notes: · Totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table E13. Transportation sector energy expenditure estimates, 2023
(million dollars)

State	Primary energy											Electricity [f]	Total energy
			Petroleum										
	Coal	Natural gas [a]	Aviation gasoline	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Lubricants	Motor gasoline [e]	Residual fuel oil	Total	Total		
Alabama	—	1	12	3,685	3	232	217	9,442	48	13,639	13,640	—	13,640
Alaska	—	(s)	33	1,512	(s)	2,701	45	1,285	—	5,576	5,576	—	5,576
Arizona	—	29	27	3,673	5	1,651	197	11,467	—	17,021	17,049	1	17,050
Arkansas	—	1	8	2,705	(s)	142	127	4,582	—	7,564	7,566	(s)	7,566
California	—	359	63	31,266	13	10,685	900	57,931	3,337	104,196	104,555	94	104,649
Colorado	—	12	18	2,752	4	1,663	153	7,952	—	12,542	12,553	12	12,565
Connecticut	—	7	3	1,284	6	200	80	4,834	—	6,408	6,415	39	6,454
Delaware	—	—	1	314	6	238	26	1,684	4	2,273	2,273	—	2,273
Dist. of Col.	—	6	—	74	(s)	—	5	355	—	434	440	30	470
Florida	—	100	81	8,520	18	6,595	582	28,703	858	45,356	45,455	8	45,463
Georgia	—	26	23	5,390	20	2,601	328	15,011	121	23,495	23,520	11	23,531
Hawaii	—	—	2	533	—	1,953	26	1,991	106	4,611	4,611	—	4,611
Idaho	—	1	8	1,854	(s)	192	72	3,003	—	5,130	5,131	—	5,131
Illinois	—	3	15	7,522	7	3,308	320	13,254	(s)	24,426	24,429	29	24,458
Indiana	—	26	11	5,575	8	464	246	9,402	16	15,723	15,749	1	15,751
Iowa	—	(s)	7	3,097	2	136	131	4,825	—	8,198	8,198	—	8,198
Kansas	—	11	9	3,006	1	182	120	4,003	—	7,320	7,331	—	7,331
Kentucky	—	(s)	7	3,809	1	1,767	177	7,109	—	12,869	12,870	—	12,870
Louisiana	—	4	9	4,375	5	425	218	6,470	189	11,691	11,695	1	11,696
Maine	—	(s)	4	904	1	114	47	2,428	5	3,503	3,503	—	3,503
Maryland	—	8	7	2,032	4	817	138	8,261	8	11,267	11,275	46	11,321
Massachusetts	—	4	12	1,970	1	1,438	137	8,412	13	11,983	11,988	20	12,008
Michigan	—	—	14	3,907	8	957	257	13,551	50	18,745	18,745	1	18,746
Minnesota	—	7	13	3,399	8	1,005	165	7,942	—	12,533	12,539	2	12,542
Mississippi	—	(s)	10	2,904	4	173	142	5,072	27	8,331	8,331	—	8,331
Missouri	—	1	12	4,001	4	599	224	10,045	(s)	14,884	14,885	2	14,888
Montana	—	(s)	8	1,356	(s)	187	51	1,933	—	3,535	3,535	—	3,535
Nebraska	—	11	6	2,520	1	132	93	2,902	—	5,653	5,664	—	5,664
Nevada	—	22	7	1,645	1	1,659	82	4,693	—	8,087	8,110	1	8,110
New Hampshire	—	(s)	3	518	(s)	135	38	2,295	—	2,990	2,990	—	2,990
New Jersey	—	19	10	3,343	4	2,342	226	11,651	388	17,964	17,982	46	18,028
New Mexico	—	6	6	2,820	(s)	178	106	2,944	—	6,054	6,060	—	6,060
New York	—	27	13	6,977	5	5,851	358	16,845	232	30,282	30,309	426	30,735
North Carolina	—	10	19	4,766	6	1,903	299	15,691	3	22,687	22,697	1	22,699
North Dakota	—	(s)	8	1,439	(s)	101	48	1,401	—	2,998	2,998	—	2,998
Ohio	—	23	15	6,616	7	1,023	334	15,114	1	23,110	23,133	2	23,135
Oklahoma	—	21	10	4,101	6	984	175	5,871	—	11,147	11,168	—	11,168
Oregon	—	(s)	12	3,656	7	637	118	6,093	14	10,538	10,538	3	10,541
Pennsylvania	—	18	12	6,984	12	1,335	319	15,181	20	23,863	23,881	44	23,925
Rhode Island	—	3	1	346	(s)	47	21	1,213	1	1,629	1,632	5	1,636
South Carolina	—	1	11	3,306	6	361	195	8,380	136	12,394	12,395	—	12,395
South Dakota	—	—	4	1,029	(s)	76	43	1,565	—	2,717	2,717	—	2,717
Tennessee	—	18	16	4,634	2	1,762	247	10,772	1	17,434	17,452	—	17,452
Texas	—	11	62	24,731	21	6,564	1,271	43,440	1,584	77,672	77,684	12	77,696
Utah	—	7	10	2,547	1	982	106	4,655	—	8,301	8,308	7	8,314
Vermont	—	—	1	280	(s)	30	17	970	(s)	1,298	1,298	—	1,298
Virginia	—	28	13	4,486	4	2,301	263	12,611	23	19,700	19,728	25	19,753
Washington	—	5	18	4,478	9	2,303	219	11,054	1,455	19,536	19,541	9	19,550
West Virginia	—	1	2	1,991	1	28	78	2,757	—	4,857	4,858	—	4,858
Wisconsin	—	3	10	3,682	6	274	186	8,675	(s)	12,833	12,836	(s)	12,836
Wyoming	—	(s)	3	1,620	(s)	65	51	1,076	—	2,815	2,816	—	2,816
United States	—	838	691	209,933	229	71,503	10,022	458,799	8,637	759,814	760,652	877	761,528

[a] Transportation use of natural gas as vehicle fuel only.
[b] Includes biodiesel and renewable diesel blended into distillate fuel oil. Includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum."
[e] Includes fuel ethanol blended into motor gasoline.
[f] Electricity sales to ultimate customers. Sales to public railroads and railway systems only. Excludes electric vehicles.

— = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.
Where shown, (s) = Value less than 0.5 million dollars.
Note: Totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table E14. Electric power sector energy expenditure estimates, 2023
(million dollars)

State	Coal	Natural gas [a]	Petroleum				Nuclear fuel	Biomass	Electricity imports [c]	Total energy [d]
			Distillate fuel oil	Petroleum coke	Residual fuel oil	Total		Wood and waste [b]		
Alabama	606	1,467	4	—	—	4	312	1	—	2,390
Alaska	49	225	132	—	—	132	—	—	—	406
Arizona	403	1,771	9	—	—	9	212	10	—	2,404
Arkansas	388	531	10	—	—	10	73	1	—	1,003
California	—	5,456	8	—	—	8	106	158	362	6,091
Colorado	426	550	77	—	—	77	—	6	—	1,059
Connecticut	—	635	8	—	19	27	84	28	—	774
Delaware	1	58	3	—	2	4	—	2	—	65
Dist. of Col.	—	—	—	—	—	—	—	—	—	—
Florida	429	5,755	48	57	2	106	154	80	—	6,524
Georgia	775	1,342	11	—	—	11	302	79	—	2,508
Hawaii	—	—	304	—	1,132	1,436	—	5	—	1,441
Idaho	—	307	(s)	—	—	(s)	—	4	—	311
Illinois	584	595	9	—	—	9	640	3	—	1,831
Indiana	1,388	807	25	—	—	25	—	2	—	2,221
Iowa	287	208	19	—	—	19	—	5	—	519
Kansas	309	128	19	—	—	19	66	2	—	523
Kentucky	1,159	396	16	—	—	16	—	1	—	1,572
Louisiana	160	1,101	2	52	—	54	73	4	—	1,392
Maine	7	195	1	—	16	17	—	48	142	409
Maryland	77	283	12	—	12	23	92	17	—	493
Massachusetts	—	813	13	—	8	20	—	24	—	857
Michigan	618	1,152	18	44	1	63	159	62	274	2,327
Minnesota	316	536	18	—	—	18	96	8	423	1,398
Mississippi	187	1,140	1	—	—	1	80	(s)	—	1,409
Missouri	816	249	41	—	—	41	68	—	—	1,174
Montana	303	25	3	35	—	38	—	(s)	10	375
Nebraska	245	45	12	—	—	12	47	3	—	352
Nevada	128	1,347	3	—	—	3	—	2	—	1,480
New Hampshire	10	181	5	—	6	11	59	32	—	293
New Jersey	—	524	5	—	—	5	181	15	—	725
New Mexico	264	320	22	—	—	22	—	(s)	—	606
New York	—	1,426	18	—	51	69	185	35	485	2,200
North Carolina	693	2,210	24	—	—	24	245	29	—	3,200
North Dakota	477	104	13	—	—	13	—	—	62	656
Ohio	848	1,262	29	37	—	66	105	6	—	2,288
Oklahoma	137	1,097	5	—	—	5	—	(s)	—	1,239
Oregon	—	881	—	—	—	—	—	16	—	897
Pennsylvania	352	2,032	14	—	1	14	505	48	—	2,952
Rhode Island	—	267	5	—	—	5	—	7	—	280
South Carolina	573	746	21	—	—	21	322	10	—	1,673
South Dakota	40	50	8	—	—	8	—	—	—	98
Tennessee	614	291	29	—	—	29	233	2	—	1,169
Texas	1,669	5,206	58	—	—	58	250	18	4	7,206
Utah	420	729	8	—	—	8	—	3	—	1,160
Vermont	—	(s)	1	—	—	1	—	17	676	694
Virginia	78	1,241	25	—	—	25	183	102	—	1,629
Washington	182	852	6	—	—	6	58	17	47	1,162
West Virginia	1,308	65	38	—	—	38	—	(s)	—	1,411
Wisconsin	528	731	21	3	—	24	60	41	—	1,383
Wyoming	642	104	11	—	—	11	—	—	—	757
United States	18,498	47,436	1,188	228	1,248	2,664	4,950	953	2,486	76,987

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Includes small amount of other biomass liquids that are biodiesel.
[c] Electricity imported from Canada and Mexico.
[d] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
— = No consumption.
Where shown, (s) = Value less than 0.5 million dollars.

Notes: Expenditure totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

2023 Price and Expenditure Ranking Tables

Table E15. Total energy price and expenditure estimates (total, per capita, and per GDP), ranked by state, 2023

Rank	Prices		Expenditures [a]		Energy expenditures per capita		Energy expenditures as percent of current-dollar GDP [b]	
	State	Dollars per million Btu	State	Million dollars	State	Dollars	State	Percent
1	Hawaii	40.33	California	195,100	Alaska	12,156	Alaska	13.16
2	California	35.72	Texas	173,908	Wyoming	10,116	Wyoming	11.38
3	Connecticut	32.32	Florida	85,759	North Dakota	9,270	Louisiana	11.11
4	New Hampshire	32.28	New York	74,131	Louisiana	7,628	Mississippi	10.44
5	District of Columbia	32.28	Pennsylvania	57,867	Hawaii	5,953	West Virginia	10.00
6	Massachusetts	31.73	Illinois	52,052	Iowa	5,903	North Dakota	9.62
7	Rhode Island	31.52	Ohio	51,399	Maine	5,819	Alabama	8.99
8	Arizona	30.28	Georgia	46,199	Montana	5,794	Montana	8.95
9	Vermont	29.76	North Carolina	42,633	South Dakota	5,787	Arkansas	8.85
10	Maryland	28.85	Michigan	41,957	West Virginia	5,767	Maine	8.73
11	Maine	28.75	Virginia	39,434	Nebraska	5,740	Kentucky	8.39
12	Nevada	28.58	New Jersey	36,671	Texas	5,660	Oklahoma	8.28
13	Florida	28.12	Indiana	35,242	Mississippi	5,361	Hawaii	7.78
14	New York	27.05	Louisiana	34,997	Alabama	5,354	New Mexico	7.66
15	Delaware	26.70	Washington	32,825	Oklahoma	5,231	Idaho	7.62
16	Oregon	26.55	Tennessee	32,020	New Hampshire	5,182	Iowa	7.48
17	Washington	26.35	Massachusetts	31,848	Kentucky	5,158	Vermont	7.36
18	New Jersey	25.20	Arizona	31,328	Arkansas	5,152	South Carolina	7.27
19	North Carolina	24.97	Missouri	28,439	Indiana	5,122	South Dakota	7.18
20	Missouri	24.70	Wisconsin	27,568	Kansas	5,112	Indiana	7.06
21	New Mexico	24.66	Alabama	27,400	California	4,977	Texas	6.73
22	West Virginia	24.29	Minnesota	27,117	Vermont	4,940	Missouri	6.61
23	Montana	24.05	Colorado	24,277	Nevada	4,924	Kansas	6.61
24	Colorado	23.85	South Carolina	23,803	New Mexico	4,873	Wisconsin	6.43
25	Alaska	23.84	Maryland	23,653	Connecticut	4,729	Nevada	6.43
26	Virginia	23.81	Kentucky	23,471	Minnesota	4,714	New Hampshire	6.37
27	Utah	23.79	Oklahoma	21,260	Idaho	4,674	Nebraska	6.29
28	Pennsylvania	23.67	Oregon	19,473	Wisconsin	4,649	Michigan	6.23
29	Tennessee	23.31	Iowa	18,998	Missouri	4,581	Tennessee	6.12
30	South Carolina	23.07	Connecticut	17,229	Oregon	4,578	Oregon	6.11
31	Georgia	22.97	Nevada	15,826	Virginia	4,515	Arizona	5.99
32	Idaho	22.77	Arkansas	15,814	Massachusetts	4,507	Pennsylvania	5.93
33	Wisconsin	22.70	Mississippi	15,779	Delaware	4,481	Rhode Island	5.87
34	Mississippi	22.44	Kansas	15,089	Tennessee	4,479	Ohio	5.81
35	Michigan	22.37	Utah	14,324	Pennsylvania	4,445	Minnesota	5.61
36	Kentucky	22.24	Nebraska	11,410	South Carolina	4,418	Georgia	5.55
37	Kansas	22.19	New Mexico	10,336	Ohio	4,347	Virginia	5.48
38	Minnesota	22.18	West Virginia	10,211	Arizona	4,192	North Carolina	5.41
39	Arkansas	21.76	Idaho	9,212	Washington	4,178	Florida	5.36
40	Ohio	21.65	Alaska	8,953	Georgia	4,175	Utah	5.09
41	Illinois	21.60	Hawaii	8,580	Michigan	4,161	California	5.04
42	South Dakota	21.31	Maine	8,144	Utah	4,160	Connecticut	4.98
43	Alabama	21.11	North Dakota	7,315	Rhode Island	4,128	Illinois	4.74
44	Nebraska	20.47	New Hampshire	7,266	Illinois	4,117	Delaware	4.74
45	Oklahoma	20.30	Montana	6,555	Colorado	4,114	Maryland	4.59
46	Indiana	19.87	Wyoming	5,918	North Carolina	3,918	Colorado	4.58
47	Wyoming	19.69	South Dakota	5,314	New Jersey	3,910	New Jersey	4.55
48	North Dakota	18.15	Delaware	4,644	Maryland	3,804	Massachusetts	4.33
49	Iowa	18.09	Rhode Island	4,555	New York	3,756	Washington	4.06
50	Texas	17.37	Vermont	3,205	Florida	3,744	New York	3.41
51	Louisiana	12.42	District of Columbia	2,546	District of Columbia	3,704	District of Columbia	1.44
	United States	23.59	United States	1,568,551	United States	4,657	United States	5.66

[a] The U.S. total includes -$500 million of coal coke net imports, which are not allocated to the states.
[b] GDP = Gross domestic product.
Note: Rankings are based on unrounded data.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: Table by the U.S. Energy Information Administration, State Energy Data System based on population data from the U.S. Census Bureau and GDP data from the U.S. Bureau of Economic Analysis. See technical notes. https://www.eia.gov/state/seds/

Table E16. Total energy price estimates by end-use sector, ranked by state, 2023

Rank	Residential		Commercial		Industrial [a]		Transportation		Total [a]	
	State	Dollars per million Btu	State	Dollars per million Btu	State	Dollars per million Btu	State	Dollars per million Btu	State	Dollars per million Btu
1	Hawaii	117.12	Hawaii	65.03	Hawaii	71.03	California	34.78	Hawaii	40.33
2	California	44.64	California	45.55	Massachusetts	25.56	Oregon	33.85	California	35.72
3	Florida	43.75	District of Columbia	34.79	New Hampshire	24.37	Washington	32.03	Connecticut	32.32
4	New Hampshire	40.62	Rhode Island	33.81	Nevada	23.43	Idaho	31.57	New Hampshire	32.28
5	Maine	40.38	New Hampshire	33.24	Vermont	23.10	Arizona	31.56	District of Columbia	32.28
6	Connecticut	40.20	Alabama	31.54	California	22.73	Montana	31.43	Massachusetts	31.73
7	Massachusetts	39.11	Massachusetts	31.22	District of Columbia	21.53	District of Columbia	30.69	Rhode Island	31.52
8	Alabama	37.41	Florida	30.11	Rhode Island	21.46	Utah	30.52	Arizona	30.28
9	Rhode Island	35.69	Connecticut	29.92	Arizona	20.80	Nevada	30.46	Vermont	29.76
10	Texas	35.53	Maine	29.77	Connecticut	20.75	Vermont	30.46	Maryland	28.85
11	Arizona	35.08	Arizona	28.67	Maryland	19.41	Connecticut	30.44	Maine	28.75
12	South Carolina	34.74	Mississippi	28.36	New Jersey	19.20	Maine	30.29	Nevada	28.58
13	Vermont	34.34	New York	27.34	New Mexico	19.07	Wyoming	30.28	Florida	28.12
14	Delaware	33.88	Maryland	26.85	Utah	17.27	Pennsylvania	30.26	New York	27.05
15	Maryland	33.49	Tennessee	26.52	Colorado	17.08	Rhode Island	30.16	Delaware	26.70
16	Mississippi	32.87	Vermont	26.38	Delaware	16.43	North Dakota	30.12	Oregon	26.55
17	North Carolina	32.53	Georgia	26.17	New York	16.11	West Virginia	29.96	Washington	26.35
18	Virginia	32.23	South Carolina	25.70	West Virginia	15.87	Wisconsin	29.43	New Jersey	25.20
19	Georgia	31.67	Delaware	25.48	Missouri	15.82	Nebraska	29.24	North Carolina	24.97
20	Nevada	31.32	Nevada	25.38	Montana	15.77	South Dakota	29.16	Missouri	24.70
21	Pennsylvania	30.93	Kentucky	25.21	Florida	15.03	Maryland	29.11	New Mexico	24.66
22	West Virginia	30.09	Louisiana	25.07	Alaska	14.75	New Hampshire	29.02	West Virginia	24.29
23	District of Columbia	30.07	New Jersey	23.89	Wisconsin	14.43	Massachusetts	28.74	Montana	24.05
24	Louisiana	30.02	Alaska	23.85	Washington	14.30	Colorado	28.71	Colorado	23.85
25	New York	29.51	Oregon	23.85	Minnesota	14.29	Hawaii	28.51	Alaska	23.84
26	Arkansas	29.41	North Carolina	23.71	Oregon	14.23	Minnesota	28.50	Virginia	23.81
27	Kentucky	29.08	Missouri	23.00	Illinois	14.13	Iowa	28.49	Utah	23.79
28	Tennessee	27.82	Washington	22.94	Michigan	13.79	Delaware	28.48	Pennsylvania	23.67
29	Missouri	27.42	Kansas	22.82	Pennsylvania	13.76	Ohio	28.48	Tennessee	23.31
30	Oregon	27.41	Colorado	22.64	Idaho	13.52	Kansas	28.28	South Carolina	23.07
31	Alaska	26.43	West Virginia	22.24	North Carolina	13.46	Indiana	28.28	Georgia	22.97
32	Oklahoma	26.00	Virginia	22.15	Arkansas	13.46	New Mexico	28.08	Idaho	22.77
33	Indiana	25.81	Michigan	21.97	Maine	13.32	Illinois	28.04	Wisconsin	22.70
34	Ohio	24.99	Texas	21.74	Ohio	12.91	New York	27.64	Mississippi	22.44
35	New Jersey	24.71	Indiana	21.42	Kansas	12.53	Michigan	27.56	Michigan	22.37
36	Washington	24.70	Pennsylvania	21.41	Wyoming	12.48	Alaska	27.46	Kentucky	22.24
37	Kansas	24.65	Oklahoma	21.32	Nebraska	12.44	North Carolina	27.41	Kansas	22.19
38	South Dakota	23.75	New Mexico	20.85	South Dakota	12.16	Kentucky	27.36	Minnesota	22.18
39	Wisconsin	23.66	Minnesota	20.43	North Dakota	11.91	New Jersey	27.34	Arkansas	21.76
40	New Mexico	23.10	Wisconsin	20.09	Virginia	11.68	Missouri	27.20	Ohio	21.65
41	Michigan	22.77	South Dakota	20.08	Indiana	11.52	Tennessee	26.97	Illinois	21.60
42	Minnesota	22.65	Arkansas	20.07	Kentucky	11.35	Arkansas	26.94	South Dakota	21.31
43	Iowa	22.42	Illinois	19.27	Tennessee	11.07	Oklahoma	26.91	Alabama	21.11
44	Wyoming	21.93	Wyoming	19.22	South Carolina	11.07	Mississippi	26.61	Nebraska	20.47
45	Montana	21.92	Ohio	19.11	Iowa	11.07	Virginia	26.53	Oklahoma	20.30
46	Nebraska	21.91	Montana	19.09	Georgia	10.74	South Carolina	26.41	Indiana	19.87
47	North Dakota	21.66	Iowa	18.21	Mississippi	10.61	Alabama	26.37	Wyoming	19.69
48	Colorado	21.26	Nebraska	18.12	Texas	9.39	Florida	25.91	North Dakota	18.15
49	Idaho	20.99	Utah	17.99	Oklahoma	9.37	Georgia	25.76	Iowa	18.09
50	Illinois	20.90	Idaho	17.75	Alabama	9.34	Texas	25.38	Texas	17.37
51	Utah	19.13	North Dakota	17.36	Louisiana	7.69	Louisiana	25.23	Louisiana	12.42
	United States	30.58	United States	25.63	United States	12.13	United States	28.52	United States	23.59

[a] The U.S. average includes coal coke net imports, which are not allocated to the states.
Note: Rankings are based on unrounded data.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table E17. Total energy expenditure estimates by end-use sector, ranked by state, 2023

Rank	Residential		Commercial		Industrial [a]		Transportation		Total [a]	
	State	Million dollars	State	Million dollars	State	Million dollars	State	Million dollars	State	Million dollars
1	California	35,489	California	34,515	Texas	50,060	California	104,649	California	195,100
2	Texas	28,356	Texas	17,796	California	20,446	Texas	77,696	Texas	173,908
3	New York	21,923	New York	17,544	Louisiana	16,095	Florida	45,463	Florida	85,759
4	Florida	21,355	Florida	13,616	Pennsylvania	11,258	New York	30,735	New York	74,131
5	Pennsylvania	15,549	Virginia	7,990	Ohio	9,165	Illinois	24,458	Pennsylvania	57,867
6	Ohio	11,993	Illinois	7,867	Indiana	8,941	Pennsylvania	23,925	Illinois	52,052
7	Illinois	11,639	New Jersey	7,257	Illinois	8,089	Georgia	23,531	Ohio	51,399
8	Georgia	10,561	Pennsylvania	7,134	Michigan	5,758	Ohio	23,135	Georgia	46,199
9	Michigan	10,388	Ohio	7,106	Iowa	5,682	North Carolina	22,699	North Carolina	42,633
10	Massachusetts	10,343	Massachusetts	7,080	Georgia	5,491	Virginia	19,753	Michigan	41,957
11	North Carolina	9,438	Michigan	7,066	Florida	5,324	Washington	19,550	Virginia	39,434
12	New Jersey	8,706	Georgia	6,615	Alabama	4,917	Michigan	18,746	New Jersey	36,671
13	Virginia	8,244	North Carolina	5,929	Minnesota	4,578	New Jersey	18,028	Indiana	35,242
14	Indiana	6,556	Tennessee	5,031	Wisconsin	4,576	Tennessee	17,452	Louisiana	34,997
15	Arizona	6,532	Maryland	4,902	North Carolina	4,568	Arizona	17,050	Washington	32,825
16	Missouri	6,423	Arizona	4,857	New York	3,928	Indiana	15,751	Tennessee	32,020
17	Connecticut	6,338	Washington	4,354	Kentucky	3,820	Missouri	14,888	Massachusetts	31,848
18	Maryland	6,204	Minnesota	4,275	Tennessee	3,568	Alabama	13,640	Arizona	31,328
19	Washington	6,056	Wisconsin	4,233	Virginia	3,447	Kentucky	12,870	Missouri	28,439
20	Tennessee	5,970	Missouri	4,098	Colorado	3,402	Wisconsin	12,836	Wisconsin	27,568
21	Wisconsin	5,922	Indiana	3,994	Arkansas	3,303	Colorado	12,565	Alabama	27,400
22	Minnesota	5,723	Alabama	3,560	South Carolina	3,273	Minnesota	12,542	Minnesota	27,117
23	Alabama	5,282	Colorado	3,473	Oklahoma	3,213	South Carolina	12,395	Colorado	24,277
24	South Carolina	4,921	Connecticut	3,409	Missouri	3,031	Massachusetts	12,008	South Carolina	23,803
25	Colorado	4,837	South Carolina	3,214	Arizona	2,889	Louisiana	11,696	Maryland	23,653
26	Louisiana	4,199	Oregon	3,012	Washington	2,864	Maryland	11,321	Kentucky	23,471
27	Oklahoma	3,955	Louisiana	3,006	New Jersey	2,679	Oklahoma	11,168	Oklahoma	21,260
28	Kentucky	3,946	Oklahoma	2,924	Nebraska	2,521	Oregon	10,541	Oregon	19,473
29	Oregon	3,560	Kentucky	2,836	Kansas	2,501	Mississippi	8,331	Iowa	18,998
30	Nevada	3,216	Kansas	2,382	North Dakota	2,440	Utah	8,314	Connecticut	17,229
31	Iowa	3,098	Nevada	2,201	Massachusetts	2,416	Iowa	8,198	Nevada	15,826
32	Arkansas	2,906	Mississippi	2,146	Mississippi	2,398	Nevada	8,110	Arkansas	15,814
33	Mississippi	2,904	Arkansas	2,040	Oregon	2,360	Arkansas	7,566	Mississippi	15,779
34	Kansas	2,876	Iowa	2,019	Nevada	2,298	Kansas	7,331	Kansas	15,089
35	Maine	2,514	Utah	1,947	West Virginia	2,229	Connecticut	6,454	Utah	14,324
36	Utah	2,461	Nebraska	1,440	Wyoming	1,787	New Mexico	6,060	Nebraska	11,410
37	New Hampshire	2,396	District of Columbia	1,425	Utah	1,602	Nebraska	5,664	New Mexico	10,336
38	West Virginia	1,934	New Mexico	1,376	Idaho	1,497	Alaska	5,576	West Virginia	10,211
39	Nebraska	1,785	Hawaii	1,347	Hawaii	1,424	Idaho	5,131	Idaho	9,212
40	Idaho	1,644	Maine	1,310	Alaska	1,349	West Virginia	4,858	Alaska	8,953
41	New Mexico	1,611	New Hampshire	1,286	New Mexico	1,289	Hawaii	4,611	Hawaii	8,580
42	Rhode Island	1,600	West Virginia	1,191	Maryland	1,226	Montana	3,535	Maine	8,144
43	Hawaii	1,198	North Dakota	1,050	South Dakota	1,039	Maine	3,503	North Dakota	7,315
44	Montana	1,173	Alaska	1,039	Connecticut	1,028	North Dakota	2,998	New Hampshire	7,266
45	Delaware	1,107	Montana	958	Montana	888	New Hampshire	2,990	Montana	6,555
46	Vermont	1,020	Rhode Island	942	Maine	817	Wyoming	2,816	Wyoming	5,918
47	Alaska	988	Idaho	940	New Hampshire	594	South Dakota	2,717	South Dakota	5,314
48	South Dakota	894	Delaware	716	Delaware	549	Delaware	2,273	Delaware	4,644
49	North Dakota	827	Wyoming	681	Rhode Island	377	Rhode Island	1,636	Rhode Island	4,555
50	Wyoming	635	South Dakota	665	Vermont	321	Vermont	1,298	Vermont	3,205
51	District of Columbia	580	Vermont	566	District of Columbia	71	District of Columbia	470	District of Columbia	2,546
	United States	329,776	United States	238,363	United States	238,884	United States	761,528	United States	1,568,551

[a] The U.S. total includes -$500 million of coal coke net imports, which are not allocated to the states.
Note: Rankings are based on unrounded data.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table E18. Petroleum and natural gas price and expenditure estimates, ranked by state, 2023

	Petroleum [a]				Natural gas [b]			
	Prices		Expenditures		Prices		Expenditures	
Rank	State	Dollars per million Btu	State	Million dollars	State	Dollars per million Btu	State	Million dollars
1	California	34.52	Texas	115,561	Hawaii	46.08	California	27,338
2	Oregon	32.74	California	113,651	District of Columbia	14.87	Texas	14,659
3	Washington	31.49	Florida	49,435	Massachusetts	14.31	New York	12,196
4	Arizona	30.82	New York	37,730	California	14.06	Pennsylvania	9,979
5	Idaho	30.46	Pennsylvania	31,261	Missouri	10.50	Illinois	8,646
6	Nevada	29.99	Illinois	28,483	Utah	10.46	Ohio	8,419
7	Utah	29.80	Ohio	27,357	New Hampshire	10.38	Florida	8,065
8	District of Columbia	29.01	Georgia	26,205	Maine	9.94	Michigan	7,382
9	Vermont	28.93	North Carolina	25,761	Nevada	9.89	Louisiana	5,930
10	Connecticut	28.91	Virginia	22,303	Washington	9.74	Indiana	5,610
11	Maryland	28.74	Louisiana	21,955	Maryland	9.71	New Jersey	5,472
12	Maine	28.68	Michigan	21,905	Vermont	9.65	Massachusetts	5,422
13	Rhode Island	28.54	Washington	21,557	Delaware	9.57	Georgia	5,076
14	West Virginia	28.52	New Jersey	20,910	New York	9.32	North Carolina	4,723
15	Massachusetts	28.33	Arizona	19,311	Rhode Island	8.31	Wisconsin	4,062
16	Wyoming	28.28	Tennessee	19,174	Alaska	8.26	Minnesota	4,048
17	New Hampshire	28.20	Indiana	18,348	Illinois	8.25	Virginia	3,798
18	Colorado	28.11	Missouri	16,972	Kansas	8.14	Colorado	3,596
19	Nebraska	28.08	Massachusetts	15,570	Colorado	8.09	Washington	3,371
20	Wisconsin	28.04	Minnesota	15,470	Minnesota	8.04	Alabama	3,323
21	Delaware	28.02	Wisconsin	15,388	Montana	8.00	Missouri	3,281
22	South Dakota	28.02	Alabama	15,215	New Jersey	8.00	Arizona	3,267
23	Montana	27.82	Colorado	14,742	Connecticut	7.98	Iowa	3,197
24	New Mexico	27.65	Kentucky	14,691	Wyoming	7.86	Oklahoma	3,181
25	Minnesota	27.57	South Carolina	13,756	Oregon	7.72	Nevada	2,942
26	North Dakota	27.57	Maryland	13,030	Nebraska	7.62	Utah	2,723
27	Kansas	27.39	Oklahoma	12,766	Idaho	7.53	Maryland	2,688
28	Ohio	27.38	Oregon	11,736	North Carolina	7.17	Arkansas	2,661
29	Indiana	27.27	Iowa	10,797	Arkansas	6.94	Oregon	2,449
30	North Carolina	27.23	Mississippi	9,321	Michigan	6.89	Connecticut	2,385
31	Pennsylvania	27.18	Utah	9,308	Iowa	6.89	Tennessee	2,354
32	Alaska	27.10	Nevada	9,189	Wisconsin	6.86	Mississippi	2,209
33	New Jersey	27.00	Connecticut	8,977	West Virginia	6.82	Kansas	2,142
34	New York	26.94	Arkansas	8,808	Georgia	6.51	South Carolina	2,062
35	Tennessee	26.78	Kansas	8,723	Tennessee	6.37	Kentucky	1,972
36	Illinois	26.65	Alaska	6,953	Arizona	6.29	Nebraska	1,535
37	Oklahoma	26.54	New Mexico	6,934	Indiana	6.28	Idaho	1,105
38	Missouri	26.37	Nebraska	6,837	Pennsylvania	6.24	New Mexico	1,023
39	Arkansas	26.34	Hawaii	6,456	Ohio	6.22	Alaska	1,009
40	Virginia	26.32	West Virginia	6,101	Kentucky	6.15	Rhode Island	909
41	Michigan	26.21	Idaho	5,978	South Carolina	5.98	West Virginia	840
42	Mississippi	26.12	Maine	5,271	South Dakota	5.94	Wyoming	806
43	Hawaii	26.02	North Dakota	4,576	Virginia	5.94	Delaware	682
44	Alabama	26.00	New Hampshire	4,339	New Mexico	5.33	Montana	644
45	South Carolina	25.77	Montana	4,296	Florida	4.87	New Hampshire	617
46	Florida	25.72	Wyoming	3,774	North Dakota	4.75	Maine	584
47	Kentucky	25.58	South Dakota	3,359	Oklahoma	4.66	South Dakota	574
48	Georgia	25.49	Delaware	2,622	Alabama	4.56	North Dakota	488
49	Iowa	25.25	Rhode Island	2,328	Mississippi	3.99	District of Columbia	385
50	Texas	18.50	Vermont	2,107	Louisiana	3.94	Hawaii	126
51	Louisiana	16.56	District of Columbia	530	Texas	3.57	Vermont	125
	United States	26.00	United States	917,829	United States	6.87	United States	202,081

[a] Includes biofuels blended into petroleum products. Includes biodiesel and renewable diesel product supplied.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
Note: Rankings are based on unrounded data.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table E19. Coal and electricity sales to ultimate customers price and expenditure estimates, ranked by state, 2023

	Coal				Electricity sales to ultimate customers			
	Prices		Expenditures		Prices		Expenditures	
Rank	State	Dollars per million Btu	State	Million dollars	State	Dollars per million Btu	State	Million dollars
1	Virginia	6.03	Indiana	2,541	Hawaii	113.17	California	59,189
2	Alaska	5.51	Texas	1,695	California	73.04	Texas	48,715
3	Maine	5.40	Ohio	1,591	Connecticut	71.04	Florida	33,953
4	New Hampshire	5.40	West Virginia	1,364	Massachusetts	68.02	New York	25,482
5	Nevada	5.12	Pennsylvania	1,360	New Hampshire	67.28	Pennsylvania	17,401
6	California	5.10	Kentucky	1,265	Rhode Island	63.37	Ohio	16,063
7	North Carolina	4.78	Illinois	999	Alaska	62.84	Georgia	15,711
8	Oregon	4.73	Michigan	979	Maine	61.08	Illinois	15,063
9	Georgia	4.54	Missouri	878	New York	53.57	Virginia	14,128
10	Pennsylvania	4.42	Georgia	806	Vermont	51.38	North Carolina	14,125
11	Idaho	4.38	Alabama	771	District of Columbia	48.36	Michigan	13,315
12	Indiana	4.14	Tennessee	764	New Jersey	44.87	Massachusetts	11,607
13	New York	4.10	North Carolina	735	Maryland	42.03	Indiana	10,908
14	Mississippi	4.02	Wyoming	711	Michigan	40.17	New Jersey	10,762
15	Washington	3.91	North Dakota	596	Florida	39.66	Tennessee	10,553
16	Ohio	3.85	South Carolina	588	Nevada	38.36	Arizona	10,471
17	Tennessee	3.78	Wisconsin	560	Delaware	38.09	Alabama	9,715
18	South Carolina	3.62	Utah	447	Wisconsin	37.29	Wisconsin	8,711
19	New Mexico	3.60	Florida	446	Pennsylvania	36.89	South Carolina	8,523
20	Delaware	3.55	Colorado	436	Minnesota	35.99	Washington	8,471
21	Maryland	3.49	Arizona	428	Arizona	35.72	Missouri	8,370
22	Florida	3.45	Arkansas	404	Illinois	34.71	Maryland	8,179
23	Alabama	3.43	Minnesota	367	Colorado	34.53	Louisiana	7,960
24	Michigan	3.40	Iowa	357	Indiana	33.83	Minnesota	7,960
25	Louisiana	3.37	Kansas	318	Alabama	33.68	Kentucky	7,036
26	Arizona	3.11	Montana	315	Montana	32.77	Colorado	6,510
27	Illinois	2.91	Virginia	282	Ohio	32.50	Connecticut	6,468
28	West Virginia	2.89	New Mexico	271	Georgia	32.42	Oklahoma	6,316
29	Kentucky	2.63	Nebraska	261	Mississippi	32.33	Oregon	5,982
30	Utah	2.56	Mississippi	199	Kansas	31.92	Mississippi	5,233
31	Wisconsin	2.55	Louisiana	196	Missouri	31.87	Iowa	5,122
32	Oklahoma	2.47	Washington	194	Tennessee	31.41	Nevada	5,006
33	Minnesota	2.46	Oklahoma	158	Virginia	31.29	Arkansas	4,720
34	Montana	2.42	Nevada	150	North Carolina	31.10	Kansas	4,349
35	South Dakota	2.35	California	147	South Carolina	30.76	Hawaii	3,431
36	Arkansas	2.24	Maryland	106	South Dakota	30.73	West Virginia	3,288
37	Colorado	2.13	Alaska	101	Oregon	30.23	Nebraska	3,070
38	Texas	2.10	South Dakota	52	West Virginia	30.08	Utah	2,974
39	Missouri	1.98	New York	20	Texas	29.66	New Mexico	2,670
40	Wyoming	1.94	New Hampshire	10	Kentucky	29.33	New Hampshire	2,441
41	North Dakota	1.83	Maine	7	Arkansas	28.57	Maine	2,362
42	Iowa	1.77	Idaho	5	Washington	28.25	Idaho	2,331
43	Kansas	1.72	Oregon	3	New Mexico	27.87	North Dakota	2,247
44	Nebraska	1.33	Delaware	1	Iowa	27.60	District of Columbia	1,630
45	Connecticut	—	Connecticut	—	Oklahoma	27.47	Montana	1,623
46	District of Columbia	—	District of Columbia	—	Louisiana	27.03	Rhode Island	1,579
47	Hawaii	—	Hawaii	—	Nebraska	26.80	South Dakota	1,416
48	Massachusetts	—	Massachusetts	—	Idaho	26.61	Delaware	1,398
49	New Jersey	—	New Jersey	—	Utah	26.58	Wyoming	1,372
50	Rhode Island	—	Rhode Island	—	Wyoming	24.73	Alaska	1,276
51	Vermont	—	Vermont	—	North Dakota	23.54	Vermont	940
	United States	2.92	United States	23,883	United States	37.34	United States	488,124

— = No consumption.
Where shown, (s) = Value less than 0.5 million dollars.
Note: Rankings are based on unrounded data.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table E20. Motor gasoline price and expenditure estimates, ranked by state, 2023

Rank	Prices		Expenditures		Expenditures per capita	
	State	Dollars per million Btu	State	Million dollars	State	Dollars
1	Hawaii	42.17	California	61,287	Wyoming	1,922
2	Alaska	42.16	Texas	44,650	Alabama	1,896
3	California	38.64	Florida	30,149	North Dakota	1,865
4	Washington	36.91	New York	17,730	Alaska	1,806
5	Oregon	36.22	North Carolina	16,235	Maine	1,796
6	Nevada	35.31	Pennsylvania	15,881	Montana	1,783
7	Arizona	33.92	Ohio	15,819	South Dakota	1,773
8	Idaho	31.39	Georgia	15,521	Mississippi	1,763
9	Montana	31.25	Michigan	14,084	New Hampshire	1,692
10	Utah	31.23	Illinois	13,924	Delaware	1,682
11	District of Columbia	30.61	Virginia	13,044	Missouri	1,670
12	Pennsylvania	29.88	New Jersey	12,176	Arizona	1,624
13	Colorado	29.83	Arizona	12,139	West Virginia	1,610
14	Connecticut	29.78	Washington	11,565	South Carolina	1,607
15	Vermont	29.75	Tennessee	11,139	Kentucky	1,605
16	Maine	29.60	Missouri	10,370	Idaho	1,599
17	Rhode Island	29.53	Indiana	9,758	California	1,564
18	Massachusetts	29.38	Alabama	9,702	Tennessee	1,558
19	Wyoming	29.26	Wisconsin	9,014	Iowa	1,557
20	Maryland	29.24	Massachusetts	8,759	Vermont	1,552
21	North Dakota	29.23	South Carolina	8,660	Arkansas	1,550
22	Delaware	29.10	Maryland	8,621	Nevada	1,538
23	Wisconsin	28.92	Colorado	8,377	Nebraska	1,538
24	West Virginia	28.83	Minnesota	8,270	Wisconsin	1,520
25	New Hampshire	28.74	Kentucky	7,305	Oregon	1,505
26	Minnesota	28.58	Louisiana	6,689	Oklahoma	1,505
27	South Dakota	28.49	Oregon	6,401	Virginia	1,493
28	Nebraska	28.29	Oklahoma	6,115	North Carolina	1,492
29	New Jersey	28.19	Mississippi	5,188	Hawaii	1,475
30	New York	28.14	Connecticut	5,040	Washington	1,472
31	Ohio	28.03	Iowa	5,010	Louisiana	1,458
32	Illinois	28.01	Nevada	4,942	Texas	1,453
33	Kentucky	27.99	Utah	4,802	New Mexico	1,453
34	Iowa	27.53	Arkansas	4,758	Minnesota	1,438
35	North Carolina	27.50	Kansas	4,211	Kansas	1,427
36	Michigan	27.36	Idaho	3,152	Colorado	1,419
37	Kansas	27.35	New Mexico	3,082	Indiana	1,418
38	Tennessee	27.17	Nebraska	3,056	Georgia	1,403
39	Indiana	27.07	West Virginia	2,851	Michigan	1,397
40	Oklahoma	26.78	Maine	2,513	Utah	1,395
41	New Mexico	26.74	New Hampshire	2,373	Maryland	1,387
42	Missouri	26.72	Hawaii	2,126	Connecticut	1,383
43	Virginia	26.71	Montana	2,017	Ohio	1,338
44	Florida	26.69	Delaware	1,743	Florida	1,316
45	Arkansas	25.92	South Dakota	1,628	New Jersey	1,298
46	South Carolina	25.88	North Dakota	1,472	Massachusetts	1,240
47	Louisiana	25.75	Alaska	1,330	Pennsylvania	1,220
48	Mississippi	25.71	Rhode Island	1,265	Rhode Island	1,146
49	Alabama	25.62	Wyoming	1,125	Illinois	1,101
50	Georgia	25.53	Vermont	1,007	New York	898
51	Texas	25.47	District of Columbia	373	District of Columbia	542
	United States	29.02	United States	478,453	United States	1,421

Notes: · Motor gasoline includes fuel ethanol blended into the product. · Rankings are based on unrounded data.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

United States
Price and Expenditure Tables

Table ET1. Primary energy, electricity, and total energy price and expenditure estimates, selected years, 1970-2023, United States

Year	Primary energy																Electric power sector [i,k,l]	Electricity [m]	Total energy [h,i,j]
	Coal			Coal coke		Natural gas [a]	Petroleum							Nuclear fuel	Biomass				
	Coking coal	Steam coal	Total	Exports	Imports		Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total		Wood and waste [g,h]	Total [h,i,j,k]			
	Prices in dollars per million Btu																		
1970	0.45	0.36	0.38	1.27	0.93	0.59	1.16	1.45	0.73	2.85	0.42	1.38	1.72	0.18	1.34	1.08	0.32	4.98	1.65
1975	1.65	0.90	1.03	2.37	3.47	1.18	2.60	3.02	2.05	4.65	1.93	2.94	3.35	0.24	1.55	2.19	0.97	8.61	3.33
1980	2.10	1.38	1.46	2.54	3.19	2.86	6.70	5.78	6.36	9.84	3.88	7.04	7.41	0.43	2.26	4.58	1.77	13.95	6.89
1985	2.03	1.66	1.68	2.76	2.99	4.61	7.22	6.82	5.91	9.01	4.30	7.62	7.65	0.71	2.47	4.93	1.91	19.05	8.38
1990	1.79	1.47	1.48	3.53	3.80	3.82	7.68	7.00	5.68	9.12	3.17	6.48	7.56	0.67	1.32	4.49	1.48	19.32	8.29
1995	1.76	1.34	1.36	2.71	3.43	3.73	6.98	6.67	4.00	9.24	2.46	5.98	7.33	0.54	1.40	4.24	1.29	20.29	8.31
2000	1.67	1.22	1.24	3.64	2.66	5.61	9.87	9.79	6.64	11.91	4.32	7.55	9.90	0.46	1.57	5.72	1.71	20.03	10.33
2005	3.19	1.57	1.61	3.39	8.92	9.92	16.43	14.95	12.86	17.98	6.65	10.81	15.58	0.43	3.10	9.24	2.61	23.92	15.57
2006	3.54	1.72	1.77	3.19	6.31	9.62	18.62	17.32	14.80	20.40	7.93	13.30	18.02	0.44	3.12	10.23	2.48	26.15	17.40
2007	3.64	1.82	1.87	3.66	7.84	9.31	20.01	19.31	16.01	22.34	8.57	14.97	19.69	0.46	3.34	10.79	2.68	26.84	18.34
2008	4.49	2.14	2.20	4.33	18.76	10.83	26.48	23.92	22.56	26.09	12.61	19.26	24.55	0.47	3.72	13.01	3.21	28.62	21.53
2009	5.43	2.25	2.32	4.17	10.82	7.67	17.13	16.76	12.61	18.97	9.68	16.47	17.32	0.56	3.38	9.50	2.45	28.90	17.26
2010	5.84	2.32	2.41	6.74	13.37	7.37	21.00	19.10	16.32	22.64	11.77	20.37	20.85	0.64	3.56	R 10.76	2.63	28.92	18.92
2011	6.89	2.43	2.55	8.75	15.71	7.03	27.04	22.82	22.64	28.59	15.68	25.10	26.55	0.68	3.85	12.99	2.65	29.12	21.87
2012	6.59	2.44	2.59	8.65	13.64	5.74	27.97	17.10	23.04	29.42	17.31	25.37	R 26.83	0.74	3.62	12.87	2.41	28.98	21.84
2013	5.43	2.40	2.51	8.91	8.55	6.44	27.61	16.54	22.12	28.61	16.52	25.34	26.17	0.79	3.77	12.75	2.62	29.64	21.42
2014	4.61	2.42	2.49	9.94	4.73	7.20	R 26.71	17.68	20.63	27.49	15.06	25.08	25.42	0.75	4.16	12.67	2.80	30.74	21.33
2015	4.16	2.28	2.35	9.28	5.90	5.61	18.60	R 10.68	12.12	20.22	8.99	19.38	17.95	0.72	R 3.54	9.49	2.28	30.66	17.31
2016	3.56	2.18	2.23	8.75	5.78	5.06	15.81	10.18	9.83	18.04	6.83	16.77	15.70	0.70	R 3.26	8.49	2.09	30.26	15.95
2017	4.11	2.12	2.19	9.32	7.11	5.72	18.26	R 12.69	12.09	20.26	8.95	18.01	17.89	0.73	R 3.27	R 9.67	2.21	30.88	17.32
2018	4.40	2.11	2.20	10.53	10.66	5.71	R 21.82	14.20	15.72	22.52	11.84	21.19	20.54	0.70	R 3.27	10.76	2.33	31.02	18.61
2019	5.01	2.11	2.24	11.29	12.34	5.29	20.90	10.92	14.61	21.61	11.33	21.15	19.38	0.66	R 3.35	10.29	2.08	31.05	17.96
2020	4.43	2.02	2.13	10.56	10.22	4.86	17.15	R 9.21	9.79	18.01	7.94	18.18	15.97	0.63	R 2.51	8.51	1.84	31.19	16.24
2021	4.17	2.11	2.21	10.18	10.81	R 7.03	22.46	15.14	14.51	24.80	12.05	22.45	21.80	0.69	R 3.13	R 11.90	3.07	32.66	19.98
2022	6.82	2.51	2.71	13.79	20.50	R 9.27	34.61	15.47	26.05	32.41	20.22	30.75	30.11	0.61	R 3.99	16.24	R 4.19	36.35	25.66
2023	7.33	2.66	2.92	15.84	18.58	6.87	29.62	11.35	20.90	29.02	16.88	27.02	26.00	0.61	3.96	13.98	2.62	37.34	23.59
	Expenditures in million dollars																		
1970	1,175	3,455	4,630	78	4	10,891	6,253	2,395	1,441	31,596	2,046	4,172	47,904	44	452	63,887	-4,357	23,345	82,875
1975	3,692	9,329	13,021	75	156	20,061	15,680	5,224	4,193	59,446	10,374	8,493	103,409	448	548	137,719	-16,545	50,680	171,854
1980	3,753	18,853	22,607	130	52	51,061	40,797	10,929	13,923	124,408	21,573	26,049	237,679	1,189	1,232	314,282	-38,027	98,095	374,350
1985	2,228	27,259	29,487	77	43	72,938	43,972	13,755	14,747	118,048	11,493	22,272	224,288	2,878	1,597	333,080	-43,970	149,233	438,343
1990	1,862	26,557	28,419	50	72	65,278	49,335	13,845	17,784	126,558	8,721	21,433	237,677	4,104	1,997	338,588	-40,626	176,691	474,652
1995	1,558	25,740	27,298	91	325	75,020	47,532	16,197	12,526	136,647	4,676	20,035	237,613	3,810	2,938	347,820	-39,073	205,876	514,624
2000	1,327	26,632	27,959	103	249	119,094	78,208	27,970	23,781	192,153	8,870	28,421	359,403	3,628	3,174	516,187	-60,053	231,577	687,711
2005	1,964	34,779	36,742	147	780	200,355	143,596	38,874	44,679	312,047	13,951	43,138	596,287	3,469	5,894	845,859	-95,916	295,787	1,045,730
2006	2,132	37,662	39,794	128	636	190,589	164,395	45,355	50,007	357,286	12,432	52,309	681,785	3,637	6,096	924,932	-90,074	323,962	1,158,821
2007	2,175	40,345	42,520	131	478	196,957	177,162	51,081	53,754	389,282	14,129	54,917	740,325	3,871	6,407	993,627	-100,683	340,925	1,233,869
2008	2,606	46,643	49,249	210	1,676	230,465	220,936	59,610	72,046	438,237	17,949	62,304	871,081	3,976	7,038	1,166,832	-118,526	360,454	1,408,759
2009	2,192	43,441	45,632	135	93	159,364	R 131,084	43,052	36,354	317,082	11,284	44,859	R 583,716	4,680	5,371	R 800,877	-84,804	350,435	R 1,066,509
2010	3,239	46,996	50,235	245	403	161,303	R 168,173	R 54,862	48,346	376,491	14,382	54,833	R 717,087	5,414	6,893	R 943,136	-94,782	365,913	R 1,214,267
2011	3,885	46,335	50,220	210	552	155,944	R 221,904	R 64,039	66,773	462,435	16,517	63,731	R 895,398	5,621	7,525	R 1,117,106	-92,716	368,009	R 1,392,400
2012	3,916	41,034	44,950	209	384	132,830	R 220,699	49,258	66,845	473,216	14,635	58,766	R 883,420	5,965	7,132	R 1,076,395	-82,154	360,863	R 1,355,104
2013	3,346	41,898	45,244	186	29	R 151,628	R 222,101	52,282	65,668	467,328	12,034	59,982	R 879,396	6,523	7,935	R 1,093,283	-89,096	372,068	R 1,376,255
2014	2,796	42,050	44,846	233	9	R 174,357	R 226,717	54,050	62,745	452,821	8,861	58,726	R 863,921	6,252	R 9,017	R 1,101,188	-95,800	389,872	R 1,395,260
2015	2,340	34,219	36,559	197	20	R 140,300	R 156,168	R 34,296	38,820	342,578	5,328	46,228	R 623,418	5,975	R 7,530	R 816,324	-76,333	388,344	R 1,128,335
2016	1,678	29,996	31,673	217	33	R 127,648	R 129,084	R 32,306	32,928	310,961	5,112	39,456	R 549,846	5,857	R 6,722	R 723,730	-68,493	383,567	R 1,038,804
2017	2,069	28,235	30,304	280	10	R 142,080	R 150,769	R 41,408	42,095	348,456	7,005	42,018	R 631,751	6,135	R 6,610	R 818,668	-69,692	387,222	R 1,136,199
2018	2,306	26,897	29,203	301	31	R 157,790	R 190,062	R 52,673	R 55,550	387,586	8,606	48,096	R 742,572	5,916	R 6,807	R 944,153	-75,615	403,349	R 1,271,887
2019	2,578	22,785	25,363	271	35	R 150,307	R 180,119	R 42,450	R 52,707	370,930	7,151	46,894	R 700,251	5,592	R 6,700	R 889,832	-64,852	398,774	R 1,223,754
2020	1,830	17,693	19,523	179	41	R 135,005	R 136,669	R 36,384	R 21,864	268,098	3,798	37,817	R 504,631	5,195	R 4,624	R 670,597	-53,959	390,934	R 1,007,572
2021	2,103	21,167	23,271	526	31	R 194,581	R 193,484	63,948	R 41,144	403,022	8,687	48,276	R 758,561	5,601	R 5,846	R 989,690	-92,203	419,304	R 1,316,791
2022	3,132	23,656	26,787	793	34	R 270,233	R 304,299	R 61,111	R 84,102	526,258	15,277	61,091	R 1,052,138	4,890	R 7,322	R 1,364,468	R -126,634	481,757	R 1,719,591
2023	3,354	20,530	23,883	595	95	202,081	258,966	46,696	71,503	478,453	10,611	51,599	917,829	4,950	6,684	1,157,413	-76,987	488,124	1,568,551

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[l] Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
[m] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
Where shown, R = Revised data.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET2. Total end-use energy price and expenditure estimates, selected years, 1970-2023, United States

Year	Primary energy													Electricity [k]	Total energy [h,i,j]
		Coal coke			Petroleum							Biomass			
	Coal	Exports	Imports	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g,h]	Total [h,i,j]		
	Prices in dollars per million Btu														
1970	0.48	1.27	0.93	0.68	1.18	1.45	0.73	2.85	0.44	1.39	1.82	1.35	1.31	4.98	1.65
1975	1.51	2.37	3.47	1.28	2.62	3.02	2.05	4.65	1.86	2.94	3.50	1.55	2.65	8.61	3.33
1980	1.87	2.54	3.19	3.05	6.72	5.78	6.36	9.84	3.60	7.04	7.68	2.26	5.84	13.95	6.89
1985	1.84	2.76	2.99	4.91	7.24	6.82	5.91	9.01	4.33	7.63	7.78	2.51	6.50	19.05	8.38
1990	1.63	3.53	3.80	4.17	7.72	7.00	5.68	9.12	3.07	6.53	7.73	1.58	6.19	19.32	8.29
1995	1.58	2.71	3.43	4.20	7.03	6.67	4.00	9.24	2.41	6.11	7.44	1.47	5.96	20.29	8.31
2000	1.50	3.64	2.66	5.97	9.94	9.79	6.64	11.91	4.48	7.75	10.09	1.83	8.29	20.03	10.33
2005	2.46	3.39	8.92	10.64	16.49	14.95	12.86	17.98	6.51	11.41	15.90	3.30	13.69	23.92	15.57
2006	2.71	3.19	6.31	10.92	18.66	17.32	14.80	20.40	7.87	13.95	18.21	3.27	15.40	26.15	17.40
2007	2.81	3.66	7.84	10.40	20.05	19.31	16.01	22.34	8.44	15.59	19.89	3.37	16.37	26.84	18.34
2008	3.39	4.33	18.76	11.68	26.52	23.92	22.56	26.09	12.44	20.09	24.72	4.07	19.84	28.62	21.53
2009	3.71	4.17	10.82	9.12	17.16	16.76	12.61	18.97	9.81	17.23	17.43	3.75	14.42	28.90	17.26
2010	3.92	6.74	13.37	8.54	21.05	19.10	16.32	22.64	11.67	21.35	20.98	3.86	16.47	28.92	18.92
2011	4.53	8.75	15.71	8.21	27.08	22.82	22.64	28.59	15.37	26.38	26.67	4.19	20.07	29.12	21.87
2012	4.59	8.65	13.64	7.28	27.99	17.10	23.04	29.42	16.97	26.24	26.92	4.00	20.05	28.98	21.84
2013	4.10	8.91	8.55	R 7.56	27.64	16.54	22.12	28.61	16.16	26.62	26.28	4.21	R 19.42	29.64	21.42
2014	3.75	9.94	4.73	8.33	26.76	17.68	20.63	27.49	14.58	26.32	25.53	R 4.62	19.07	30.74	21.33
2015	3.54	9.28	5.90	7.14	18.64	R 10.68	12.12	20.22	8.92	20.25	R 18.03	R 3.85	14.09	30.66	17.31
2016	3.18	8.75	5.78	6.55	R 15.84	10.18	9.83	18.04	6.70	17.58	15.77	R 3.50	12.49	30.26	15.95
2017	3.40	9.32	7.11	7.19	18.29	R 12.69	12.09	20.26	8.83	18.71	17.95	R 3.57	14.12	30.88	17.32
2018	3.56	10.53	10.66	R 7.12	21.88	14.20	15.72	22.52	11.74	22.07	20.62	R 3.63	15.69	31.02	18.61
2019	3.92	11.29	12.34	6.98	20.93	10.92	14.61	21.61	11.25	21.84	19.44	R 3.66	R 14.91	31.05	17.96
2020	3.55	10.56	10.22	6.74	17.18	R 9.21	9.79	18.01	7.81	18.91	16.03	R 2.73	12.46	31.19	16.24
2021	3.50	10.18	10.81	8.28	R 22.50	15.14	14.51	24.80	11.93	23.28	21.87	R 3.38	16.91	32.66	19.98
2022	5.10	13.79	20.50	R 10.76	34.70	15.47	26.05	32.41	19.95	31.94	30.20	R 4.36	R 23.03	36.35	25.66
2023	5.84	15.84	18.58	9.64	29.66	11.35	20.90	29.02	16.59	27.75	26.05	4.26	20.23	37.34	23.59
	Expenditures in million dollars														
1970	2,393	78	4	9,741	6,173	2,395	1,441	31,596	1,249	4,166	47,021	450	59,530	23,345	82,875
1975	5,843	75	156	17,639	15,222	5,224	4,150	59,446	4,532	8,491	97,064	546	121,174	50,680	171,854
1980	6,157	130	52	42,705	39,893	10,929	13,856	124,408	11,127	26,035	226,248	1,224	276,255	98,095	374,350
1985	5,431	77	43	62,119	43,470	13,755	14,747	118,048	7,262	22,263	219,546	1,585	289,111	149,233	438,343
1990	4,748	50	72	57,469	48,794	13,845	17,784	126,558	4,879	21,408	233,268	1,889	297,961	176,691	474,652
1995	4,160	91	325	66,251	47,083	16,197	12,526	136,647	3,211	19,978	235,641	2,461	308,747	205,876	514,624
2000	3,535	103	249	94,990	77,009	27,970	23,781	192,153	5,308	28,374	354,595	2,867	456,133	231,577	687,711
2005	5,060	147	780	150,548	142,282	38,874	44,679	312,047	7,942	42,912	588,736	4,965	749,943	295,787	1,045,730
2006	5,371	128	636	146,374	163,345	45,355	50,007	357,286	9,504	52,054	677,552	5,053	834,858	323,962	1,158,821
2007	5,447	131	478	146,962	175,783	51,081	53,754	389,282	10,566	54,667	735,133	5,054	892,944	340,925	1,233,869
2008	6,352	210	1,676	168,530	219,381	59,610	72,046	438,237	14,709	62,029	866,011	5,947	1,048,305	360,454	1,408,759
2009	5,447	135	93	125,401	R 130,154	43,052	36,354	317,082	9,658	44,646	R 580,947	4,321	R 716,074	350,435	R 1,066,509
2010	6,648	245	403	122,312	R 166,848	R 54,862	48,346	376,491	12,461	54,542	R 713,550	5,686	R 848,354	365,913	R 1,214,267
2011	7,377	210	552	118,510	R 220,469	R 64,039	66,773	462,435	14,755	63,327	R 891,798	6,364	R 1,024,390	368,009	R 1,392,400
2012	7,150	209	384	100,466	R 219,455	49,258	66,845	473,216	13,041	58,550	R 880,365	6,086	R 994,241	360,863	R 1,355,104
2013	6,509	186	29	R 114,595	R 220,818	52,282	65,668	467,328	10,524	59,745	R 876,365	6,874	R 1,004,187	372,068	R 1,376,255
2014	5,879	233	9	R 131,943	R 224,896	54,050	62,745	452,821	7,188	58,515	R 860,215	R 7,575	R 1,005,388	389,872	R 1,395,260
2015	4,993	197	20	R 107,679	R 155,144	R 34,296	38,820	342,578	4,448	46,040	R 621,326	R 6,169	R 739,991	388,344	R 1,128,335
2016	3,907	217	33	R 97,574	R 128,473	R 32,306	32,928	310,961	4,544	39,279	R 548,490	R 5,449	R 655,237	383,567	R 1,038,804
2017	4,134	280	10	R 109,574	R 150,028	R 41,408	42,095	348,456	6,330	41,821	R 630,138	R 5,400	R 748,977	387,222	R 1,136,199
2018	4,256	301	31	R 118,777	R 188,754	R 52,673	R 55,550	387,586	7,616	47,856	R 740,034	R 5,741	R 868,538	403,349	R 1,271,887
2019	4,439	271	35	R 116,535	R 179,287	R 42,450	R 52,707	370,930	6,435	46,754	R 698,562	R 5,679	R 824,980	398,774	R 1,223,754
2020	3,382	179	41	R 105,992	R 136,183	R 36,384	R 21,864	268,098	3,325	37,677	R 503,531	R 3,871	R 616,638	390,934	R 1,007,572
2021	3,683	526	31	R 132,847	R 192,533	63,948	R 41,144	403,022	7,915	48,023	R 756,585	R 4,866	R 897,487	419,304	R 1,316,791
2022	5,104	793	34	R 179,144	R 302,191	R 61,111	R 84,102	526,258	13,563	60,757	R 1,047,982	R 6,362	R 1,237,834	481,757	R 1,719,591
2023	5,386	595	95	154,644	257,778	46,696	71,503	478,453	9,363	51,371	915,165	5,732	1,080,427	488,124	1,568,551

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
Where shown, R = Revised data.
Notes: · Price estimates are weighted averages of price estimates, and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. · Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2023, United States

Year	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
	Prices in dollars per million Btu									
1970	1.14	1.06	1.39	2.05	1.54	1.54	0.66	1.22	6.51	2.10
1975	2.45	1.67	2.74	3.96	3.14	3.02	1.31	2.11	10.29	3.80
1980	2.90	3.60	7.02	7.82	8.32	7.24	3.10	4.51	15.71	7.46
1985	3.26	5.94	7.93	8.98	7.90	8.14	3.71	6.37	21.66	10.91
1990	3.01	5.63	8.01	10.79	7.46	8.69	3.59	6.23	22.96	11.87
1995	2.58	5.89	6.53	10.02	5.74	7.49	2.88	6.11	24.63	12.60
2000	2.24	7.63	9.93	13.39	9.13	11.12	4.32	8.32	24.14	14.21
2005	3.46	12.34	15.54	19.13	14.76	16.77	6.96	13.16	27.68	19.16
2006	3.51	13.35	17.96	21.43	18.59	19.26	8.02	14.42	30.49	21.49
2007	3.50	12.70	19.76	23.31	21.27	21.19	8.86	14.27	31.22	21.57
2008	—	13.52	24.53	27.52	25.59	25.80	10.92	15.93	33.01	23.08
2009	—	11.81	18.29	23.56	22.00	20.87	8.17	13.36	33.73	22.04
2010	—	11.13	21.58	25.65	24.44	23.58	9.64	13.31	33.81	22.37
2011	—	10.78	25.94	28.25	28.49	27.08	11.59	13.59	34.34	22.81
2012	—	10.38	28.88	25.91	30.19	27.57	12.90	13.32	34.82	23.39
2013	—	10.01	28.29	25.30	30.19	R 26.87	12.63	R 12.72	35.54	22.59
2014	—	10.60	27.58	30.05	30.67	28.79	12.32	13.55	36.69	23.35
2015	—	9.96	19.01	22.75	16.81	20.64	8.42	11.69	37.08	22.93
2016	—	9.63	16.24	21.56	13.39	18.80	7.34	10.99	36.78	22.92
2017	—	10.47	18.17	25.15	16.74	21.61	8.22	12.11	37.77	23.77
2018	—	10.08	20.10	25.93	24.33	23.02	9.05	12.09	37.71	23.29
2019	—	10.07	19.34	22.72	22.74	21.20	8.78	11.81	38.14	23.13
2020	—	10.33	15.99	20.59	15.37	18.47	R 7.03	11.50	38.55	23.86
2021	—	11.69	R 19.19	26.81	23.05	R 23.02	R 8.43	R 13.43	40.03	R 25.50
2022	—	14.16	R 29.68	29.39	38.64	R 29.61	R 13.04	16.55	44.08	R 28.86
2023	—	14.77	27.14	27.25	34.28	27.31	11.93	16.75	46.89	30.58
	Expenditures in million dollars									
1970	236	5,272	2,603	1,124	459	4,186	68	9,761	10,352	20,112
1975	153	8,410	4,954	2,030	504	7,488	143	16,194	20,644	36,838
1980	90	17,497	9,234	2,436	887	12,557	678	30,822	38,458	69,280
1985	127	27,136	8,667	2,825	1,252	12,745	944	40,951	58,672	99,623
1990	93	25,439	7,839	3,805	477	12,121	878	38,531	72,378	110,909
1995	45	29,362	5,903	3,960	426	10,289	657	40,352	87,610	127,961
2000	24	38,959	8,980	7,440	864	17,283	824	57,090	98,209	155,299
2005	29	61,196	13,261	9,822	1,237	24,320	1,248	86,793	128,393	215,186
2006	22	59,834	12,738	9,559	1,233	23,531	1,275	84,661	140,582	225,244
2007	27	61,598	14,247	11,287	934	26,468	1,557	89,650	148,295	237,944
2008	—	67,851	18,393	15,231	544	34,168	2,146	104,164	155,496	259,661
2009	—	57,841	10,640	12,904	609	24,154	1,730	83,724	157,044	240,767
2010	—	54,396	12,109	13,589	711	26,409	2,188	82,994	166,778	249,772
2011	—	51,940	13,543	13,915	528	27,986	2,551	82,477	166,714	249,191
2012	—	44,131	13,914	10,251	234	24,398	2,374	70,904	163,280	234,184
2013	—	50,446	R 13,898	11,726	249	R 25,873	3,034	R 79,353	169,131	R 248,484
2014	—	55,735	R 14,697	14,708	422	R 29,827	2,994	R 88,556	176,178	R 264,734
2015	—	47,762	R 10,475	10,142	170	R 20,787	1,889	R 70,437	177,624	R 248,061
2016	—	43,572	R 7,053	9,268	183	R 16,503	R 1,413	R 61,488	177,077	R 238,564
2017	—	48,104	R 7,849	10,830	141	R 18,820	R 1,540	R 68,464	177,661	R 246,125
2018	—	52,411	R 10,187	13,134	201	R 23,521	R 2,063	R 77,995	189,033	R 267,028
2019	—	52,694	R 9,088	12,802	245	R 22,134	R 2,082	R 76,911	187,436	R 264,347
2020	—	50,344	R 6,521	10,189	167	R 16,876	R 1,044	R 68,264	192,663	R 260,928
2021	—	57,472	R 9,176	12,981	217	R 22,374	R 1,295	R 81,140	200,834	R 281,974
2022	—	R 73,276	R 14,360	14,821	327	R 29,508	R 2,521	R 105,306	226,990	R 332,295
2023	—	69,586	12,838	12,877	521	26,236	1,962	97,783	231,993	329,776

[a] Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
Where shown, R = Revised data, — = No consumption.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2023, United States

Year	Primary energy										Electricity [j]	Total energy [g,h,i]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f,g]	Total [g,h,i]		
	Prices in dollars per million Btu											
1970	0.44	0.75	1.10	1.24	0.77	2.86	0.45	0.90	0.66	0.80	6.09	1.97
1975	1.31	1.32	2.42	2.53	2.32	4.66	1.91	2.39	1.31	1.68	10.11	4.06
1980	1.53	3.32	6.45	4.96	6.46	9.77	4.12	5.62	3.10	4.01	16.06	7.83
1985	1.73	5.34	6.33	8.84	8.18	9.01	4.50	6.46	3.71	5.53	21.30	11.63
1990	1.61	4.70	5.97	8.77	7.31	9.15	3.41	6.04	3.02	4.93	21.20	11.87
1995	1.54	4.94	4.70	8.89	5.55	9.42	3.14	5.14	2.25	4.85	22.29	12.62
2000	1.43	6.54	7.49	11.93	8.87	11.96	4.49	8.27	2.99	6.73	21.52	13.90
2005	2.16	10.98	13.64	16.92	14.96	17.95	7.48	13.56	4.67	11.17	25.40	18.59
2006	2.32	11.60	15.80	18.87	18.73	20.33	8.69	15.95	4.73	12.11	27.72	20.63
2007	2.36	10.99	17.37	20.74	21.13	22.27	9.71	17.61	5.59	11.86	28.27	20.74
2008	3.75	11.89	24.04	24.61	25.61	26.02	13.18	23.15	6.58	13.50	30.06	22.28
2009	4.25	9.70	14.78	19.49	21.92	18.87	9.90	15.61	4.76	10.50	29.77	20.67
2010	3.73	9.20	18.47	21.62	24.43	22.46	12.90	18.97	5.43	10.65	29.87	20.92
2011	3.99	8.79	24.69	25.30	28.40	28.44	17.34	24.48	5.94	11.17	30.00	21.18
2012	4.39	8.03	25.34	19.50	30.06	29.13	18.40	23.80	5.47	10.37	29.57	21.01
2013	4.18	8.06	24.79	19.70	30.05	28.37	17.41	23.34	5.56	R 10.08	30.07	20.64
2014	4.03	8.80	23.16	21.30	30.65	27.05	15.79	22.91	R 5.54	10.61	31.48	21.43
2015	4.19	7.80	14.26	12.66	16.85	20.50	8.86	16.61	R 4.11	9.51	31.18	R 20.73
2016	4.67	7.20	11.80	12.04	13.43	18.27	6.80	R 14.64	R 3.27	R 8.63	30.58	R 20.18
2017	5.06	7.80	14.03	15.78	16.82	20.53	8.94	R 17.10	R 3.50	9.55	31.25	20.86
2018	5.17	7.70	17.57	17.22	24.61	22.87	11.63	19.71	R 3.85	9.88	31.27	R 20.68
2019	5.40	7.55	16.22	13.48	22.84	22.07	11.40	18.10	R 4.31	9.50	31.29	20.40
2020	6.00	7.46	11.03	12.58	15.52	18.56	8.85	14.68	R 3.49	8.84	31.04	R 20.15
2021	5.93	8.73	17.41	19.83	23.12	25.35	13.11	R 21.18	R 3.95	11.24	32.87	22.17
2022	5.22	R 11.26	R 29.39	21.08	38.82	32.89	21.39	29.22	R 4.24	R 14.78	36.37	R 25.56
2023	6.25	10.99	23.11	16.89	34.51	29.79	19.40	24.72	4.15	13.57	36.91	25.63
	Expenditures in million dollars											
1970	72	1,844	646	177	47	247	323	1,440	1	3,358	7,319	10,678
1975	191	3,385	1,423	329	114	415	939	3,219	3	6,799	16,157	22,956
1980	179	8,858	3,337	438	262	1,046	2,325	7,409	17	16,463	30,611	47,074
1985	238	13,368	3,995	842	268	866	1,025	6,996	22	20,628	50,092	70,719
1990	200	12,681	3,199	898	87	1,018	785	5,986	104	18,976	60,627	79,602
1995	179	15,383	2,250	967	123	170	445	3,956	106	19,623	72,481	92,104
2000	123	21,339	3,672	1,796	263	532	411	6,674	155	28,291	85,129	113,420
2005	207	33,838	6,098	2,226	323	817	866	10,331	259	44,635	110,522	155,157
2006	149	33,736	6,314	2,327	284	984	654	10,563	264	44,712	122,914	167,626
2007	166	34,005	6,620	2,522	194	1,342	732	11,410	308	45,889	128,903	174,793
2008	302	38,476	9,230	3,893	114	1,164	936	15,336	393	54,507	137,036	191,543
2009	311	31,012	5,837	2,709	93	978	705	10,323	288	41,934	132,747	174,681
2010	259	29,184	7,223	3,027	118	1,164	796	12,327	337	42,108	135,554	177,662
2011	246	28,370	9,657	3,605	91	1,252	932	15,537	394	44,548	135,927	180,474
2012	192	23,843	8,988	2,643	36	1,125	578	13,370	391	37,796	133,898	171,695
2013	173	27,318	R 8,515	2,986	31	1,131	425	R 13,089	431	R 41,011	137,188	R 178,199
2014	163	31,538	R 8,255	3,418	63	1,456	125	R 13,317	R 446	R 45,465	145,253	R 190,718
2015	130	25,933	R 5,134	1,875	23	7,709	35	R 14,776	R 334	R 41,174	144,781	R 185,956
2016	112	23,278	R 3,847	1,806	28	6,847	30	R 12,559	R 271	R 36,219	142,642	R 178,862
2017	105	25,662	R 4,527	2,456	20	7,408	34	R 14,445	R 288	R 40,501	144,242	R 184,743
2018	97	28,147	R 5,673	3,029	33	8,379	36	R 17,151	R 315	R 45,710	147,425	R 193,135
2019	90	27,644	R 5,303	2,454	42	8,144	27	R 15,971	R 320	R 44,025	145,280	R 189,305
2020	87	24,596	R 3,047	2,530	26	6,889	21	R 12,513	R 250	R 37,446	136,372	R 173,818
2021	87	29,914	R 5,741	4,302	33	9,495	41	R 19,613	R 288	R 49,901	149,008	R 198,910
2022	76	R 41,150	R 9,798	4,250	51	14,472	69	R 28,642	R 462	R 70,330	172,600	R 242,929
2023	72	38,230	7,529	3,110	80	11,512	52	22,283	436	61,021	177,342	238,363

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[g] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[j] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data.

Notes: Expenditure totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2023, United States

	Primary energy															
	Coal			Coal coke			Petroleum						Biomass			
Year	Coking coal	Steam coal	Total	Exports	Imports	Natural gas [a]	Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e,f]	Total [f,g,h]	Electricity [i]	Total energy [f,g,h]
	Prices in dollars per million Btu															
1970	0.45	0.44	0.45	1.27	0.93	0.38	0.72	1.14	2.86	0.46	1.13	0.98	1.66	0.62	2.99	0.84
1975	1.65	1.28	1.50	2.37	3.47	0.95	2.23	2.64	4.65	1.91	2.64	2.48	1.67	1.68	6.07	2.21
1980	2.10	1.56	1.87	2.54	3.19	2.52	5.54	5.40	9.82	3.69	6.59	5.79	1.67	3.78	10.81	4.72
1985	2.03	1.70	1.83	2.76	2.99	3.87	6.26	6.22	9.07	4.24	6.90	6.40	1.67	4.47	14.57	6.06
1990	1.79	1.52	1.62	3.53	3.80	2.95	5.90	5.95	9.15	3.10	5.64	5.73	0.99	3.66	13.92	5.30
1995	1.76	1.48	1.58	2.71	3.43	2.80	4.87	5.81	9.19	2.75	5.21	5.34	1.21	3.42	13.68	5.01
2000	1.67	1.41	1.50	3.64	2.66	4.60	7.66	8.68	11.90	4.22	6.83	7.57	1.43	5.12	13.60	6.50
2005	3.19	2.14	2.47	3.39	8.92	9.08	14.27	13.62	17.93	6.98	10.20	12.07	2.73	9.14	16.77	10.42
2006	3.54	2.34	2.72	3.19	6.31	8.77	16.44	16.26	20.34	8.16	12.49	14.47	2.65	10.10	18.02	11.42
2007	3.64	2.43	2.82	3.66	7.84	8.29	18.01	18.20	22.34	9.26	13.96	16.14	2.51	10.60	18.71	11.98
2008	4.49	2.85	3.38	4.33	18.76	10.06	24.68	22.60	26.02	12.97	18.26	20.93	2.83	13.27	20.34	14.51
2009	5.43	2.97	3.69	4.17	10.82	6.46	14.77	14.45	18.90	9.25	15.08	14.85	2.62	9.46	20.05	11.37
2010	5.84	2.94	3.93	6.74	13.37	6.17	18.55	17.35	22.72	11.94	18.78	18.26	2.67	10.52	19.89	12.14
2011	6.89	3.24	4.55	8.75	15.71	5.96	24.83	21.41	28.66	16.02	23.39	23.03	2.77	12.32	20.02	13.67
2012	6.59	3.30	4.59	8.65	13.64	4.91	25.38	15.46	29.55	17.48	23.13	20.81	2.63	10.91	19.60	12.42
2013	5.43	3.22	4.10	8.91	8.55	5.46	24.83	14.74	28.72	17.40	23.57	20.37	2.59	10.94	20.26	12.52
2014	4.61	3.17	3.74	9.94	4.73	6.36	23.49	14.89	27.58	16.41	23.06	20.03	3.14	11.05	20.86	12.72
2015	4.16	3.09	3.53	9.28	5.90	4.86	14.93	8.49	20.40	9.87	16.54	12.95	3.04	7.75	20.33	9.88
2016	3.56	2.88	3.15	8.75	5.78	4.27	12.37	8.15	18.14	7.39	13.96	11.32	2.94	6.81	19.91	9.02
2017	4.11	2.83	3.37	9.32	7.11	4.83	14.89	10.47	20.36	9.81	15.34	13.35	2.87	7.89	20.23	9.95
2018	4.40	2.84	3.53	10.53	10.66	4.85	18.00	12.02	22.68	11.17	18.59	15.59	2.64	8.78	20.35	10.66
2019	5.01	2.94	3.89	11.29	12.34	4.60	16.70	8.62	21.85	11.12	18.25	13.51	2.64	7.92	20.04	9.90
2020	4.43	2.79	3.51	10.56	10.22	4.07	11.97	7.25	18.33	8.23	15.36	10.81	2.15	6.60	19.62	8.71
2021	4.17	2.80	3.47	10.18	10.81	5.87	17.43	13.21	25.14	12.41	R 19.47	16.11	2.71	9.70	21.05	11.56
2022	6.82	3.60	5.10	13.79	20.50	R 8.25	28.31	12.92	32.87	19.62	R 26.98	20.42	2.92	R 12.50	24.41	R 14.52
2023	7.33	4.32	5.83	15.84	18.58	5.90	23.53	8.84	29.53	17.41	23.33	16.07	3.10	9.82	23.64	12.13
	Expenditures in million dollars															
1970	1,175	907	2,082	78	4	2,625	866	1,046	824	635	2,698	6,069	381	11,081	5,624	16,706
1975	3,692	1,806	5,498	75	156	5,844	2,907	2,760	1,039	2,367	6,470	15,544	400	27,367	13,760	41,127
1980	3,753	2,135	5,888	130	52	16,350	7,232	7,967	1,553	4,175	21,837	42,765	529	65,453	28,863	94,316
1985	2,228	2,838	5,066	77	43	21,615	6,977	9,804	1,978	2,815	17,396	38,970	619	66,246	40,190	106,436
1990	1,862	2,593	4,455	50	72	19,348	6,773	8,916	1,695	1,070	16,798	35,252	906	59,993	43,358	103,350
1995	1,558	2,379	3,936	91	325	21,487	5,473	11,061	1,836	778	15,446	34,594	1,699	61,951	45,402	107,353
2000	1,327	2,061	3,389	103	249	34,624	9,158	18,555	1,785	867	22,692	53,058	1,888	93,104	47,859	140,963
2005	1,964	2,861	4,824	147	780	55,299	17,945	26,248	6,354	1,867	35,366	87,780	3,458	151,995	56,229	208,225
2006	2,132	3,068	5,200	128	636	52,570	20,647	32,858	7,608	1,849	43,322	106,283	3,514	168,076	59,764	227,840
2007	2,175	3,078	5,253	131	478	51,126	22,573	36,735	6,739	1,700	45,612	113,358	3,190	173,275	62,934	236,209
2008	2,606	3,444	6,050	210	1,676	61,877	33,201	39,333	6,367	2,408	52,810	134,118	3,408	206,920	67,102	274,022
2009	2,192	2,945	5,136	135	93	36,304	15,810	26,802	4,490	1,134	36,280	84,516	2,303	128,218	59,816	188,034
2010	3,239	3,150	6,389	245	403	38,533	21,331	38,128	5,895	1,365	43,931	110,651	3,160	158,891	62,767	221,657
2011	3,885	3,246	7,131	210	552	37,972	30,583	46,383	7,287	2,086	51,534	137,873	3,418	186,736	64,566	251,302
2012	3,916	3,042	6,958	209	384	32,173	32,153	36,262	7,457	1,164	47,685	124,722	3,320	167,347	62,937	230,284
2013	3,346	2,990	6,336	186	29	36,513	31,311	37,429	7,542	793	48,781	125,856	3,410	171,957	64,944	236,902
2014	2,796	2,920	5,716	233	9	44,291	31,997	35,737	5,793	634	46,939	121,100	4,135	175,017	67,630	242,648
2015	2,340	2,523	4,863	197	20	33,579	17,377	22,133	5,260	310	34,366	79,445	3,946	121,657	65,169	186,825
2016	1,678	2,117	3,795	217	33	30,300	14,239	21,062	4,753	375	28,528	68,957	3,766	106,633	63,126	169,759
2017	2,069	1,960	4,029	280	10	35,344	17,866	27,886	5,382	475	31,659	83,268	3,571	125,942	64,590	190,533
2018	2,306	1,853	4,159	301	31	37,727	22,469	36,253	6,111	466	37,159	102,458	3,363	147,437	66,147	213,584
2019	2,578	1,771	4,349	271	35	35,674	20,065	26,981	5,824	453	R 35,998	R 89,322	3,276	R 132,386	65,321	R 197,707
2020	1,830	1,465	3,296	179	41	30,578	12,735	23,528	4,933	262	R 28,321	R 69,778	2,577	R 106,092	61,250	R 167,341
2021	2,103	1,493	3,597	526	31	44,915	20,626	46,424	6,642	566	R 37,129	R 111,388	3,284	R 162,689	68,816	R 231,504
2022	3,132	1,897	5,028	793	34	R 63,936	33,869	41,768	9,085	916	R 46,925	R 132,563	R 3,379	R 204,148	81,403	R 285,551
2023	3,354	1,960	5,314	595	95	45,991	27,479	30,480	8,143	674	40,057	106,833	3,333	160,971	77,913	238,884

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[i] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
Where shown, R = Revised data.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET6. Transportation sector energy price and expenditure estimates, selected years, 1970-2023, United States

Year	Primary energy											Electricity [g]	Total energy [f]
			Petroleum										
	Coal	Natural gas[a]	Aviation gasoline	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Lubricants	Motor gasoline [e]	Residual fuel oil	Total	Total [f]		
	Prices in dollars per million Btu												
1970	0.41	—	2.17	1.31	1.10	0.73	5.08	2.85	0.38	2.31	2.31	4.65	2.31
1975	1.26	—	3.45	2.80	2.43	2.05	7.48	4.64	1.72	4.02	4.02	11.72	4.02
1980	—	—	9.02	7.19	4.97	6.36	14.36	9.84	3.31	8.60	8.60	14.71	8.61
1985	—	—	9.99	7.52	9.61	5.91	18.18	9.01	4.36	8.26	8.26	19.74	8.27
1990	—	3.29	9.32	8.46	9.89	5.68	20.61	9.12	2.98	8.32	8.32	20.26	8.33
1995	—	3.91	8.36	7.98	11.78	4.00	21.75	9.24	2.18	8.11	8.11	22.63	8.12
2000	—	5.21	10.87	10.70	15.06	6.64	23.20	11.91	4.54	10.76	10.76	20.71	10.77
2005	—	9.16	18.56	17.30	20.50	12.86	35.22	17.98	6.22	16.92	16.92	25.12	16.92
2006	—	9.61	22.31	19.35	22.22	14.80	43.88	20.41	7.73	19.20	19.20	27.96	19.20
2007	—	9.19	23.70	20.64	24.46	16.01	47.16	22.34	8.19	20.83	20.82	28.42	20.83
2008	—	12.21	27.23	27.37	28.70	22.56	55.12	26.09	12.28	25.62	25.61	31.39	25.62
2009	—	8.71	20.32	17.68	22.70	12.61	56.07	18.97	9.89	17.89	17.88	31.25	17.90
2010	—	6.77	25.19	21.66	R 25.74	16.32	58.80	22.64	11.55	21.54	21.53	30.95	21.54
2011	—	7.42	31.64	27.79	R 29.57	22.64	69.54	28.59	15.12	27.56	27.53	30.67	27.54
2012	—	10.39	33.04	28.66	R 22.61	23.04	72.11	29.42	16.85	28.41	28.39	29.93	28.39
2013	—	R 10.32	32.71	28.35	R 23.08	22.12	69.42	28.61	16.01	27.75	27.73	30.93	27.73
2014	—	R 10.40	33.16	27.62	R 24.69	20.63	69.44	27.49	14.40	26.74	R 26.71	30.62	26.72
2015	—	R 9.91	24.86	19.55	R 14.71	12.12	67.28	20.21	8.85	R 19.16	19.15	29.57	19.16
2016	—	R 9.75	21.62	R 16.67	R 14.37	9.83	65.78	18.03	6.64	16.71	16.70	28.22	16.71
2017	—	R 9.29	24.13	R 19.17	R 19.04	12.09	67.25	20.25	8.76	18.92	18.90	28.38	18.91
2018	—	R 9.42	27.04	22.97	R 20.34	15.72	72.37	22.51	11.78	21.76	21.74	28.43	21.74
2019	—	R 9.49	25.57	R 22.05	R 17.04	14.61	74.92	21.59	11.26	20.84	20.82	28.32	20.83
2020	—	R 9.32	22.34	18.43	R 15.84	9.79	75.34	17.99	7.77	17.44	17.42	29.02	17.43
2021	—	R 9.67	28.86	R 23.91	R 24.68	14.51	81.25	24.78	11.88	23.40	23.37	29.90	R 23.37
2022	—	R 11.64	36.02	R 36.48	R 24.47	26.05	97.37	32.39	19.96	R 32.68	R 32.62	33.98	R 32.62
2023	—	13.03	32.62	31.22	19.52	20.90	105.48	29.00	16.51	28.54	28.51	37.43	28.52
	Expenditures in million dollars												
1970	3	—	218	2,058	49	1,441	745	30,525	291	35,327	35,330	49	35,379
1975	1	—	245	5,938	105	4,150	1,158	57,992	1,226	70,813	70,814	119	70,933
1980	—	—	580	20,090	88	13,856	2,468	121,809	4,626	163,517	163,517	163	163,680
1985	—	—	503	23,830	284	14,747	2,844	115,205	3,422	160,835	161,285	279	161,564
1990	—	1	419	30,982	227	17,784	3,628	123,845	3,025	179,910	180,462	328	180,790
1995	—	18	331	33,457	209	12,526	3,652	134,641	1,988	186,803	186,822	384	187,206
2000	—	68	394	55,199	179	23,781	4,161	189,836	4,029	277,580	277,648	380	278,028
2005	—	215	656	104,978	579	44,679	5,329	304,875	5,208	466,305	466,520	643	467,163
2006	—	234	746	123,646	611	50,007	6,468	348,695	7,002	537,175	537,409	702	538,111
2007	—	233	749	132,343	538	53,754	7,178	381,201	8,135	583,897	584,130	792	584,923
2008	—	326	770	158,556	1,154	72,046	7,791	430,705	11,366	682,388	682,714	820	683,534
2009	—	243	540	R 97,867	637	36,354	7,125	311,613	7,819	R 461,955	R 462,198	828	R 463,027
2010	—	199	681	R 126,185	118	48,346	9,100	369,432	10,300	R 564,163	R 564,361	814	R 565,176
2011	—	227	856	R 166,687	136	66,773	10,318	453,895	11,737	R 710,402	R 710,630	803	R 711,433
2012	—	319	830	R 164,400	102	66,845	9,765	464,635	11,299	R 717,875	R 718,194	747	R 718,942
2013	—	R 319	731	R 167,094	141	65,668	9,952	458,655	9,306	R 711,547	R 711,866	805	R 712,671
2014	—	R 378	720	R 169,947	188	62,745	10,371	445,572	6,429	R 695,972	R 696,350	810	R 697,160
2015	—	R 405	526	R 122,159	R 147	38,820	10,955	329,609	4,103	R 506,318	R 506,723	771	R 507,494
2016	—	R 425	443	R 103,334	R 170	32,928	10,097	299,361	4,139	R 450,471	R 450,896	722	R 451,618
2017	—	R 464	505	R 119,786	R 236	42,095	9,495	335,666	5,821	R 513,605	R 514,069	728	R 514,798
2018	—	R 492	606	R 150,425	R 257	R 55,550	9,858	373,095	7,114	R 596,904	R 597,396	744	R 598,139
2019	—	R 522	598	R 144,830	R 213	R 52,707	R 9,871	356,962	5,956	R 571,135	R 571,658	737	R 572,395
2020	—	R 474	451	R 113,880	R 137	R 21,864	R 8,711	256,276	3,043	R 404,363	R 404,836	648	R 405,485
2021	—	R 546	622	R 156,990	R 241	R 41,144	R 10,022	386,884	7,307	R 603,210	R 603,757	646	R 604,403
2022	—	R 782	803	R 244,164	R 273	R 84,102	R 12,649	502,702	12,578	R 857,269	R 858,051	765	R 858,816
2023	—	838	691	209,933	229	71,503	10,022	458,799	8,637	759,814	760,652	877	761,528

[a] Transportation use of natural gas as vehicle fuel only.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum."
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.

Where shown, R = Revised data.

— = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET7. Electric power sector price and expenditure estimates, selected years, 1970-2023, United States

Year	Coal	Natural gas [a]	Petroleum: Distillate fuel oil	Petroleum: Petroleum coke	Petroleum: Residual fuel oil	Petroleum: Total	Nuclear fuel	Biomass: Wood and waste [b]	Electricity imports [c]	Total energy [d]
	Prices in dollars per million Btu									
1970	0.31	0.28	0.57	0.29	0.41	0.42	0.18	0.65	1.92	0.32
1975	0.82	0.75	2.22	0.53	1.99	2.00	0.24	0.92	3.89	0.97
1980	1.35	2.20	5.75	2.61	4.25	4.34	0.43	1.74	6.94	1.77
1985	1.65	3.43	5.89	1.27	4.24	4.35	0.71	0.79	9.34	1.91
1990	1.46	2.34	5.61	0.82	3.30	3.42	0.67	0.34	8.37	1.48
1995	1.32	2.03	4.16	0.70	2.59	2.61	0.54	1.13	6.21	1.29
2000	1.21	4.53	6.87	0.48	4.09	4.20	0.46	0.68	16.78	1.71
2005	1.53	8.25	11.48	0.98	6.86	6.18	0.43	2.31	16.53	2.61
2006	1.68	6.92	14.31	1.26	8.12	6.65	0.44	2.56	17.32	2.48
2007	1.78	7.11	15.56	1.54	8.98	8.01	0.46	3.22	18.25	2.68
2008	2.09	9.04	21.44	1.88	13.48	11.04	0.47	2.53	18.28	3.21
2009	2.21	4.82	13.37	1.62	8.98	7.24	0.56	2.40	12.10	2.45
2010	2.28	5.16	16.63	2.13	12.47	9.55	0.64	2.63	13.31	2.63
2011	2.38	4.84	22.56	2.92	18.93	12.20	0.68	2.66	11.53	2.65
2012	2.39	3.48	23.76	2.54	20.78	14.26	0.74	2.31	9.51	2.41
2013	2.35	4.41	23.20	1.93	19.56	11.88	0.79	2.26	11.49	2.62
2014	2.37	5.06	22.20	1.79	17.59	12.55	0.75	2.72	13.31	2.80
2015	2.23	3.28	14.57	1.68	9.37	7.58	0.72	2.59	10.54	2.28
2016	2.14	2.91	11.15	1.49	8.04	5.56	0.70	2.52	8.74	2.09
2017	2.07	3.39	13.59	2.02	10.26	7.41	0.73	2.37	9.18	2.21
2018	2.07	3.56	16.27	2.37	12.64	9.75	0.70	2.15	10.74	2.33
2019	2.06	2.89	15.48	1.85	12.18	8.96	0.66	2.28	9.20	2.08
2020	1.96	2.41	11.02	1.60	8.97	5.97	0.63	1.76	8.38	1.84
2021	2.06	5.32	15.93	2.87	13.48	R 9.61	0.69	2.30	12.82	3.07
2022	2.44	R 7.29	25.28	3.94	22.66	R 17.01	0.61	2.56	19.84	R 4.19
2023	2.55	3.55	22.49	3.89	19.45	15.11	0.61	2.78	18.72	2.62
	Expenditures in million dollars									
1970	2,237	1,151	80	6	797	882	44	2	40	4,357
1975	7,178	2,422	502	1	5,842	6,345	448	2	150	16,545
1980	16,450	8,357	972	14	10,446	11,432	1,189	8	592	38,027
1985	24,056	10,819	502	9	4,232	4,742	2,878	11	1,463	43,970
1990	23,671	7,809	541	25	3,841	4,408	4,104	108	527	40,626
1995	23,138	8,769	449	57	1,465	1,971	3,810	476	908	39,073
2000	24,424	24,104	1,199	47	3,562	4,808	3,628	307	2,783	60,053
2005	31,682	49,807	1,314	227	6,010	7,551	3,469	929	2,478	95,916
2006	34,423	44,216	1,050	255	2,927	4,233	3,637	1,043	2,523	90,074
2007	37,073	49,995	1,379	250	3,562	5,192	3,871	1,352	3,200	100,683
2008	42,897	61,936	1,555	275	3,240	5,070	3,976	1,091	3,556	118,526
2009	40,185	33,964	930	213	1,626	2,769	4,680	1,050	2,155	84,804
2010	43,587	38,991	1,325	290	1,921	3,536	5,414	1,207	2,047	94,782
2011	42,843	37,434	1,434	404	1,761	3,600	5,621	1,161	2,057	92,716
2012	37,800	32,363	1,244	216	1,594	3,055	5,965	1,047	1,923	82,154
2013	38,735	37,033	1,283	237	1,510	3,030	6,523	1,061	2,714	89,096
2014	38,966	42,414	1,821	211	1,673	3,706	6,252	1,442	3,020	95,800
2015	31,566	32,620	1,024	188	880	2,091	5,975	1,361	2,719	76,333
2016	27,766	30,073	611	177	568	1,356	5,857	1,273	2,168	68,493
2017	26,170	32,506	742	197	675	1,613	6,135	1,210	2,058	69,692
2018	24,947	39,013	1,308	240	989	2,538	5,916	1,066	2,135	75,615
2019	20,924	33,772	832	140	716	1,689	5,592	1,021	1,854	64,852
2020	16,141	29,013	487	140	473	1,100	5,195	753	1,757	53,959
2021	19,587	61,734	951	253	772	1,976	5,601	980	2,325	92,203
2022	21,683	R 91,088	2,108	334	1,714	4,156	4,890	960	3,857	R 126,634
2023	18,498	47,436	1,188	228	1,248	2,664	4,950	953	2,486	76,987

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[c] Electricity imported from Canada and Mexico.
[d] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
Where shown, R = Revised data.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

State Price and Expenditure Tables

Table ET1. Primary energy, electricity, and total energy price and expenditure estimates, selected years, 1970-2023, Alabama

Year	Primary energy														Electric power sector [l,k,l]	Electricity [m]	Total energy [h,i,j]
	Coal			Natural gas [a]	Petroleum							Nuclear fuel	Biomass	Total [h,i,j,k]			
	Coking coal	Steam coal	Total		Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total		Wood and waste [g,h]				
	Prices in dollars per million Btu																
1970	0.42	0.26	0.32	0.52	1.10	1.93	0.73	2.82	0.41	1.19	2.09	—	1.29	0.84	0.26	3.51	1.37
1975	1.50	0.94	1.10	0.96	2.60	3.75	2.03	4.26	1.59	2.72	3.31	0.14	1.47	1.82	0.88	6.87	2.83
1980	1.96	1.63	1.69	2.90	6.58	6.48	6.39	9.89	2.99	5.54	7.85	0.33	1.78	3.33	1.17	12.52	6.29
1985	2.02	2.00	2.01	4.73	6.43	6.90	6.17	9.15	3.80	6.37	7.87	0.77	2.03	3.89	1.74	16.59	7.68
1990	1.83	1.82	1.82	4.05	7.50	10.07	5.99	8.96	2.18	6.29	7.98	0.56	1.01	3.82	1.56	16.47	7.56
1995	1.81	1.56	1.59	3.84	6.89	8.48	4.06	8.93	1.97	5.86	7.69	0.51	1.17	3.32	1.30	16.26	6.96
2000	1.62	1.43	1.44	5.32	9.69	12.58	6.60	11.42	3.38	7.20	10.19	0.50	1.47	3.96	1.28	16.60	8.78
2005	2.99	1.83	1.89	10.49	16.28	17.24	13.07	17.59	6.58	9.17	16.07	0.42	2.83	6.60	2.10	19.14	13.56
2006	3.30	2.14	2.20	9.78	18.13	19.64	14.76	19.76	8.30	11.64	18.14	0.41	2.76	7.20	2.26	20.96	14.96
2007	3.48	2.11	2.17	9.03	19.60	21.07	16.20	21.55	8.47	13.37	19.88	0.42	2.64	7.41	2.29	22.46	16.06
2008	4.36	2.73	2.80	11.23	26.58	26.41	22.89	25.80	10.71	15.23	24.68	0.47	3.02	8.99	2.93	25.48	19.22
2009	5.12	2.71	2.81	6.64	16.53	21.43	12.88	18.07	9.53	20.16	17.64	0.56	2.87	6.82	2.25	26.23	16.55
2010	5.41	2.85	2.97	6.65	20.40	R 23.71	16.44	21.72	9.45	R 23.31	21.14	0.63	2.92	R 7.65	2.59	26.44	17.80
2011	6.55	2.90	3.09	5.72	26.46	R 25.98	22.77	27.53	13.18	R 27.76	26.72	0.67	3.03	8.82	2.60	27.08	20.06
2012	6.17	3.09	3.31	4.28	27.08	R 21.18	23.24	27.99	14.10	R 28.84	R 27.24	0.76	2.88	8.66	2.30	27.32	19.86
2013	5.41	2.89	3.06	5.35	26.91	R 21.35	22.30	27.16	13.04	R 27.95	26.72	0.83	2.91	8.60	2.47	26.47	18.89
2014	4.44	2.78	2.91	5.79	25.93	R 24.65	19.92	25.89	12.59	R 28.10	R 25.65	0.80	3.48	8.40	2.59	27.20	R 18.63
2015	3.86	2.56	2.65	R 4.16	17.68	R 17.91	11.87	18.17	8.12	R 25.03	R 18.09	0.73	3.22	6.37	2.05	27.39	R 15.70
2016	3.44	2.41	2.50	3.90	15.06	R 17.16	9.56	16.31	5.82	R 22.02	R 15.85	0.69	3.13	R 6.03	1.98	28.07	R 14.86
2017	3.82	2.27	2.42	4.41	17.36	R 20.10	11.65	18.50	7.68	22.27	17.99	0.74	3.06	6.67	2.02	28.85	15.97
2018	4.11	2.37	2.54	4.49	20.68	R 22.03	15.39	20.40	9.08	26.06	20.49	0.74	2.82	7.24	2.17	28.27	16.69
2019	4.60	2.39	2.59	4.04	19.70	R 18.32	14.59	18.97	9.27	R 27.10	19.27	0.70	2.78	6.88	1.89	28.85	16.38
2020	3.97	2.20	2.36	3.65	15.79	R 16.14	9.51	15.51	6.82	R 24.21	15.79	0.67	R 2.29	5.93	1.64	28.89	R 14.84
2021	3.71	2.27	2.37	5.23	21.19	R 21.09	14.29	22.28	9.96	R 28.23	R 21.89	0.63	R 2.95	8.19	2.27	29.88	17.85
2022	5.93	2.95	3.12	8.24	32.73	R 23.01	26.05	29.00	16.54	R 36.40	R 29.96	0.64	R 3.28	11.59	3.93	34.01	R 23.37
2023	6.29	3.23	3.43	4.56	27.24	19.71	20.78	25.62	14.26	32.73	26.00	0.66	3.44	9.35	2.10	33.68	21.11
	Expenditures in million dollars																
1970	99.4	116.3	215.7	143.2	54.6	55.2	7.2	547.6	8.0	55.1	727.6	—	11.5	1,098.0	-103.4	411.6	1,406.2
1975	269.2	431.7	700.9	227.1	221.6	91.0	19.1	1,010.7	127.4	117.7	1,587.4	4.2	14.3	2,533.8	-385.8	940.2	3,088.1
1980	254.7	865.3	1,120.0	676.5	579.2	115.6	72.3	2,301.3	135.2	244.3	3,448.0	85.2	42.4	5,372.0	-849.4	2,120.5	6,643.2
1985	156.1	1,171.9	1,328.0	923.7	543.9	93.6	121.6	2,090.8	53.6	283.3	3,186.7	116.6	60.5	5,627.2	-1,172.8	2,735.9	7,190.3
1990	160.8	1,084.5	1,245.4	844.7	942.0	157.3	63.1	2,316.7	51.8	246.3	3,777.3	71.1	91.2	6,044.1	-1,088.6	3,237.2	8,192.7
1995	157.7	1,157.7	1,315.4	1,033.9	948.6	161.1	88.3	2,579.1	37.0	251.2	4,065.4	111.1	218.8	6,744.6	-1,214.3	3,685.5	9,215.8
2000	96.4	1,205.1	1,301.5	1,593.3	1,387.5	348.3	87.9	3,394.7	89.9	311.6	5,619.8	163.7	257.9	8,936.3	-1,489.6	4,592.3	12,038.9
2005	132.7	1,547.9	1,680.5	3,251.4	2,829.3	193.5	182.8	5,742.8	73.6	530.8	9,552.7	139.4	446.6	15,070.6	-2,610.3	5,628.0	18,088.3
2006	135.0	1,812.4	1,947.4	3,382.2	3,159.5	246.4	193.6	6,503.9	117.9	661.6	10,882.8	137.7	475.3	16,825.5	-2,913.0	6,252.8	20,165.3
2007	135.6	1,788.9	1,924.4	3,400.4	3,318.6	303.8	213.2	7,124.2	115.0	654.4	11,729.3	151.7	433.9	17,639.8	-3,095.9	6,771.2	21,315.1
2008	162.4	2,195.5	2,357.9	4,029.9	4,050.0	358.9	281.5	8,234.3	145.5	740.1	13,810.3	192.9	452.9	20,843.9	-3,930.0	7,496.4	24,410.3
2009	131.3	1,642.4	1,773.7	2,718.4	R 2,309.9	258.7	127.4	5,759.3	67.3	605.6	R 9,128.2	231.8	281.5	R 14,133.5	-2,751.0	7,114.5	R 18,497.0
2010	186.2	1,949.4	2,135.6	3,222.2	R 3,017.2	R 314.4	198.7	6,961.7	97.1	R 711.5	R 11,300.5	248.3	365.5	R 17,272.1	-3,474.6	7,833.0	R 21,630.6
2011	214.7	1,795.0	2,009.7	3,122.6	R 4,109.7	R 277.2	309.3	8,557.2	175.9	R 860.0	14,289.2	277.2	420.1	20,118.8	-3,520.6	7,846.1	24,444.2
2012	241.9	1,566.9	1,808.8	2,595.8	R 4,236.8	R 183.9	301.7	8,593.5	161.3	R 860.6	R 14,337.8	326.8	406.5	R 19,475.7	-3,019.2	7,665.7	R 24,122.2
2013	208.5	1,523.1	1,731.6	R 3,075.8	R 3,902.8	R 193.9	254.9	8,412.5	90.5	R 715.7	R 13,570.2	352.0	454.0	R 19,183.6	-3,109.6	7,901.4	R 23,975.4
2014	197.4	1,479.9	1,677.3	R 3,511.5	R 3,717.5	R 224.0	231.6	8,016.1	97.2	R 713.8	R 13,000.3	344.2	R 510.1	R 19,043.4	-3,318.4	8,363.3	R 24,088.3
2015	133.9	1,176.4	1,310.3	R 2,709.8	R 2,715.6	R 160.6	131.8	5,868.4	55.6	R 633.2	R 9,565.2	321.3	R 441.4	R 14,348.0	-2,615.8	8,270.7	R 20,002.9
2016	124.9	899.6	1,024.5	R 2,604.4	R 2,545.6	R 146.9	99.8	5,421.0	69.5	R 564.1	R 8,847.1	289.3	R 426.3	R 13,191.5	-2,364.2	8,415.2	R 19,242.4
2017	143.3	773.4	916.7	R 2,803.3	R 2,838.3	172.6	134.4	6,058.6	84.8	558.5	R 9,847.2	331.2	R 424.3	R 14,322.7	-2,340.3	8,454.6	R 20,437.0
2018	146.6	810.0	956.5	R 3,238.5	R 3,233.2	R 209.4	R 175.5	6,651.6	65.5	591.0	R 10,926.1	306.8	R 396.4	R 15,824.5	-2,558.0	8,672.0	R 21,938.5
2019	130.3	691.4	821.6	R 2,834.2	R 3,071.2	R 187.1	R 175.8	6,385.5	66.2	R 593.1	R 10,479.0	319.8	R 384.8	R 14,839.5	-2,179.4	8,639.1	R 21,299.2
2020	87.9	516.7	604.6	R 2,437.2	R 2,411.4	R 162.7	R 83.1	5,285.1	35.4	R 551.3	R 8,529.0	306.0	R 307.4	R 12,184.1	-1,778.0	8,186.2	R 18,592.3
2021	80.4	653.7	734.1	R 3,624.7	R 3,459.9	R 215.0	R 137.2	8,582.4	85.9	R 649.6	R 13,129.9	303.7	R 415.5	R 18,207.9	-2,620.7	8,691.9	R 24,279.2
2022	99.1	829.5	928.6	R 6,055.7	R 5,234.9	R 229.8	R 250.1	11,160.6	146.1	R 864.3	R 17,885.9	284.6	R 448.0	R 25,602.7	-4,623.5	10,055.7	R 31,034.9
2023	90.6	680.4	771.0	3,323.1	4,259.7	176.8	232.4	9,701.9	104.6	739.4	15,214.7	312.3	454.2	20,075.2	-2,390.4	9,714.9	27,399.7

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[l] Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
[m] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.
Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET2. Total end-use energy price and expenditure estimates, selected years, 1970-2023, Alabama

Year	Primary energy											Electricity [k]	Total energy [h,i,j]
			Petroleum							Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g,h]	Total [h,i,j]		
	Prices in dollars per million Btu												
1970	0.40	0.53	1.10	1.93	0.73	2.82	0.41	1.26	2.11	1.29	1.09	3.51	1.37
1975	1.39	0.96	2.62	3.75	2.03	4.26	1.59	2.72	3.32	1.47	2.25	6.87	2.83
1980	1.89	2.91	6.58	6.48	6.39	9.89	2.99	5.54	7.85	1.78	5.10	12.52	6.29
1985	1.95	4.74	6.43	6.90	6.17	9.15	3.80	6.37	7.87	2.03	5.77	16.59	7.68
1990	1.76	4.11	7.51	10.07	5.99	8.96	2.18	6.29	7.98	1.23	5.59	16.47	7.56
1995	1.72	3.91	6.92	8.48	4.06	8.93	1.97	5.86	7.70	1.23	5.04	16.26	6.96
2000	1.57	5.48	9.76	12.58	6.60	11.42	3.38	7.20	10.21	1.49	6.80	16.60	8.78
2005	2.76	11.06	16.32	17.24	13.07	17.59	6.58	9.17	16.08	2.84	11.98	19.14	13.56
2006	3.02	11.82	18.16	19.64	14.76	19.76	8.30	11.64	18.15	2.77	13.25	20.96	14.96
2007	3.25	10.96	19.63	21.07	16.20	21.55	8.47	13.37	19.89	2.65	14.17	22.46	16.06
2008	3.72	12.54	26.65	26.41	22.89	25.80	10.71	15.23	24.69	3.03	17.34	25.48	19.22
2009	4.26	9.85	16.56	21.43	12.88	18.07	9.53	20.16	17.65	2.90	13.45	26.23	16.55
2010	4.48	9.43	20.43	R 23.71	16.44	21.72	9.45	R 23.31	21.15	2.94	15.01	26.44	17.80
2011	5.05	8.13	26.49	R 25.98	22.77	27.53	13.18	R 27.76	26.73	3.05	17.87	27.08	20.06
2012	5.26	6.83	27.10	R 21.18	23.24	27.99	14.10	R 28.84	27.24	2.90	17.62	27.32	19.86
2013	4.76	7.27	26.93	R 21.35	22.30	27.16	13.04	R 27.95	R 26.73	2.92	R 16.56	26.47	18.89
2014	4.13	R 7.52	25.97	R 24.65	19.92	25.89	12.59	R 28.10	R 25.66	3.50	R 15.95	27.20	R 18.63
2015	3.93	R 6.09	17.70	R 17.91	11.87	18.17	8.12	R 25.03	R 18.10	3.24	R 12.07	27.39	R 15.70
2016	3.45	R 5.58	15.07	R 17.16	9.56	16.31	5.82	R 22.02	R 15.86	3.15	R 10.88	28.07	R 14.86
2017	3.70	6.14	17.37	R 20.10	11.65	18.50	7.68	22.27	18.00	3.09	12.14	28.85	15.97
2018	3.92	6.22	20.70	R 22.03	15.39	20.40	9.08	26.06	20.50	2.83	13.17	28.27	16.69
2019	4.23	5.90	19.70	R 18.32	14.59	18.97	9.27	R 27.10	19.27	2.78	12.65	28.85	16.38
2020	3.79	5.54	15.79	R 16.14	9.51	15.51	6.82	R 24.21	15.79	R 2.29	10.74	28.89	R 14.84
2021	3.61	6.56	R 21.19	R 21.09	14.29	22.28	9.96	R 28.23	R 21.89	R 2.95	R 14.57	29.88	17.85
2022	5.57	R 9.28	R 32.75	R 23.01	26.05	29.00	16.54	R 36.40	29.96	R 3.28	R 20.32	34.01	R 23.37
2023	6.51	6.95	27.25	19.71	20.78	25.62	14.26	32.73	26.00	3.44	17.52	33.68	21.11
	Expenditures in million dollars												
1970	117.1	139.0	54.4	55.2	7.2	547.6	8.0	54.6	727.0	11.5	994.6	411.6	1,406.2
1975	333.4	220.4	215.1	91.0	19.1	1,010.7	126.3	117.7	1,579.9	14.3	2,148.0	940.2	3,088.1
1980	364.8	672.4	574.4	115.6	72.3	2,301.3	135.2	244.3	3,443.1	42.4	4,522.6	2,120.5	6,643.2
1985	278.7	919.9	540.8	93.6	121.6	2,090.8	53.6	283.3	3,183.6	60.5	4,454.4	2,735.9	7,190.3
1990	256.4	832.5	937.7	157.3	63.1	2,316.7	51.8	246.3	3,773.0	79.1	4,955.5	3,237.2	8,192.7
1995	248.4	1,016.1	944.7	161.1	88.3	2,579.1	37.0	251.2	4,061.4	204.4	5,530.3	3,685.5	9,215.8
2000	185.3	1,403.6	1,369.7	348.3	87.9	3,394.7	89.9	311.6	5,602.1	255.7	7,446.7	4,592.3	12,038.9
2005	249.3	2,238.1	2,810.6	193.5	182.8	5,742.8	73.6	530.8	9,534.0	438.9	12,460.3	5,628.0	18,088.3
2006	259.8	2,316.9	3,145.5	246.4	193.6	6,503.9	117.9	661.6	10,868.8	466.9	13,912.4	6,252.8	20,165.3
2007	264.8	2,136.9	3,306.5	303.8	213.2	7,124.2	115.0	654.4	11,717.2	425.0	14,543.9	6,771.2	21,315.1
2008	300.5	2,382.3	4,027.4	358.9	281.5	8,234.3	145.5	740.1	13,787.7	443.4	16,913.9	7,496.4	24,410.3
2009	253.9	1,742.2	R 2,297.4	258.7	127.4	5,759.3	67.3	605.6	R 9,115.6	270.8	R 11,382.5	7,114.5	R 18,497.0
2010	308.3	1,855.9	R 2,997.0	R 314.4	198.7	6,961.7	97.1	R 711.5	R 11,280.3	353.0	R 13,797.5	7,833.0	R 21,630.6
2011	327.8	1,596.0	R 4,085.8	R 277.2	309.3	8,557.2	175.9	R 860.0	14,265.4	408.8	16,598.1	7,846.1	24,444.2
2012	383.6	1,355.8	R 4,218.2	R 183.9	301.7	8,593.5	161.3	R 860.6	R 14,319.2	397.9	R 16,456.5	7,665.7	R 24,122.2
2013	363.9	R 1,709.1	R 3,888.9	R 193.9	254.9	8,412.5	90.5	R 715.7	R 13,556.3	444.7	R 16,074.0	7,901.4	R 23,975.4
2014	360.8	R 1,888.9	R 3,696.2	R 224.0	231.6	8,016.1	97.2	R 713.8	R 12,979.0	R 496.3	R 15,725.0	8,363.3	R 24,088.3
2015	273.3	R 1,473.4	R 2,706.5	R 160.6	131.8	5,868.4	55.6	R 633.2	R 9,556.0	R 429.5	R 11,732.2	8,270.7	R 20,002.9
2016	222.9	R 1,347.0	R 2,542.0	R 146.9	99.8	5,421.0	69.5	R 564.1	R 8,843.4	R 414.1	R 10,827.3	8,415.2	R 19,242.4
2017	232.6	R 1,494.1	R 2,833.9	172.6	134.4	6,058.6	84.8	558.5	R 9,842.8	R 413.0	R 11,982.4	8,454.6	R 20,437.0
2018	235.0	R 1,729.3	R 3,220.3	R 209.4	R 175.5	6,651.6	65.5	591.0	R 10,913.2	R 388.9	R 13,266.5	8,672.0	R 21,938.5
2019	206.3	R 1,593.7	R 3,068.7	R 187.1	R 175.8	6,385.5	66.2	R 593.1	R 10,476.5	R 383.6	R 12,660.1	8,639.1	R 21,299.2
2020	139.4	R 1,432.0	R 2,410.7	R 162.7	R 83.1	5,285.1	35.4	R 551.3	R 8,528.3	R 306.5	R 10,406.1	8,186.2	R 18,592.3
2021	142.4	R 1,903.9	R 3,456.6	R 215.0	R 137.2	8,582.4	85.9	R 649.6	R 13,126.7	R 414.2	R 15,587.2	8,691.9	R 24,279.2
2022	184.6	R 2,472.9	R 5,223.9	R 229.8	R 250.1	11,160.6	146.1	R 864.3	R 17,874.8	R 446.8	R 20,979.2	10,055.7	R 31,034.9
2023	165.1	1,856.2	4,255.7	176.8	232.4	9,701.9	104.6	739.4	15,210.7	452.9	17,684.9	9,714.9	27,399.7

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. · Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2023, Alabama

Year	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
	Prices in dollars per million Btu									
1970	0.81	1.10	1.24	2.19	1.62	2.13	0.85	1.32	4.62	2.42
1975	1.82	1.52	2.53	4.32	3.31	4.21	1.69	2.07	8.05	4.44
1980	2.97	3.91	6.83	7.75	9.13	7.91	4.31	4.48	14.44	8.99
1985	3.19	6.18	7.68	8.49	6.93	8.38	4.88	6.30	18.74	12.52
1990	2.70	6.38	6.70	11.05	8.97	10.95	3.53	6.75	19.32	13.44
1995	2.61	6.67	4.83	10.42	10.22	10.37	2.87	6.94	19.66	14.05
2000	2.87	8.80	8.36	14.47	10.38	14.37	4.37	9.96	20.67	16.26
2005	4.61	15.36	13.84	19.42	13.28	18.97	6.83	15.53	23.44	20.85
2006	5.63	18.30	15.99	22.37	16.91	22.09	7.87	18.47	25.65	23.48
2007	4.51	17.68	17.50	24.21	15.36	23.94	8.70	18.31	27.33	24.73
2008	—	17.89	24.36	28.53	19.04	28.45	10.72	19.27	30.48	27.06
2009	—	17.65	14.23	23.67	19.42	23.00	8.05	18.06	31.24	27.16
2010	—	15.55	17.28	26.60	20.58	25.84	9.50	16.98	31.27	26.81
2011	—	14.84	24.87	29.06	25.42	28.98	11.42	16.49	32.52	27.87
2012	—	15.94	24.79	26.73	26.61	26.68	12.71	17.08	33.40	29.34
2013	—	15.22	25.78	26.47	26.12	26.46	12.45	16.28	33.00	28.17
2014	—	14.31	24.85	31.01	25.33	30.87	12.14	15.93	33.66	28.36
2015	—	13.75	15.59	23.55	16.65	23.36	8.37	14.97	34.28	29.09
2016	—	13.70	13.23	22.52	13.27	22.33	7.15	14.84	35.14	30.22
2017	—	15.68	15.34	26.08	16.60	25.88	8.00	17.06	36.77	32.04
2018	—	14.82	16.91	27.06	23.98	26.93	8.85	16.37	35.68	30.42
2019	—	15.21	16.29	23.81	22.39	23.78	8.51	16.43	36.72	31.50
2020	—	15.54	13.37	21.00	14.54	20.98	7.04	R 16.09	36.86	R 31.60
2021	—	15.25	15.98	27.11	22.97	26.76	8.45	R 16.37	37.97	R 32.20
2022	—	16.86	24.68	29.99	36.32	29.83	13.07	R 18.30	41.76	R 35.84
2023	—	19.54	22.59	27.86	33.39	27.72	11.95	20.23	42.86	37.41
	Expenditures in million dollars									
1970	1.4	63.0	0.3	35.2	2.2	37.6	1.6	103.6	181.7	285.3
1975	0.3	82.0	1.1	55.3	2.5	58.9	3.2	144.3	368.5	512.8
1980	3.4	211.7	0.5	65.6	10.2	76.3	12.6	304.1	811.2	1,115.3
1985	2.1	280.1	1.1	57.9	2.9	61.8	25.4	369.4	1,098.4	1,467.8
1990	1.4	298.3	0.7	97.0	1.9	99.6	20.9	420.2	1,366.1	1,786.3
1995	0.1	340.1	0.3	97.0	3.8	101.1	13.5	454.8	1,630.9	2,085.7
2000	0.4	436.0	0.6	232.7	2.7	236.1	11.0	683.5	2,027.8	2,711.3
2005	(s)	665.3	1.1	120.5	5.7	127.3	12.3	804.9	2,504.0	3,308.9
2006	0.3	716.9	0.9	143.0	4.8	148.6	12.5	878.4	2,824.7	3,703.0
2007	(s)	643.6	0.8	165.7	2.8	169.4	15.3	828.3	3,056.8	3,885.1
2008	—	691.6	1.3	215.9	0.9	218.1	21.1	930.8	3,347.6	4,278.4
2009	—	653.4	8.0	184.6	1.3	193.8	21.0	868.2	3,356.0	4,224.3
2010	—	666.6	12.1	226.2	1.8	240.1	26.5	933.2	3,790.7	4,723.9
2011	—	551.7	1.5	170.8	1.8	174.1	31.0	756.7	3,661.5	4,418.2
2012	—	446.8	2.6	112.5	0.4	115.4	28.8	591.0	3,491.4	4,082.4
2013	—	542.4	2.3	124.1	0.4	126.8	36.8	705.9	3,532.6	4,238.5
2014	—	570.3	2.5	153.3	0.6	R 156.4	36.3	762.9	3,781.9	4,544.9
2015	—	462.8	1.9	127.1	0.3	129.2	7.0	598.9	3,731.8	4,330.8
2016	—	399.4	1.2	113.5	0.2	114.9	4.9	519.2	3,843.4	4,362.6
2017	—	424.6	1.3	124.1	0.1	125.5	4.7	554.7	3,786.7	4,341.4
2018	—	528.5	1.2	155.4	0.3	156.8	7.1	R 692.5	4,027.6	R 4,720.1
2019	—	478.5	0.4	143.7	0.3	144.3	6.6	629.5	4,061.2	R 4,690.7
2020	—	451.1	0.2	121.9	0.1	122.1	R 9.8	R 583.0	3,939.9	R 4,522.9
2021	—	506.6	2.3	122.3	0.3	124.9	R 12.1	R 643.6	4,092.4	R 4,735.9
2022	—	528.1	3.7	137.8	0.4	141.9	R 23.6	R 693.6	4,690.8	R 5,384.4
2023	—	550.8	3.0	115.4	0.6	119.0	18.4	688.2	4,593.8	5,282.0

[a] Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2023, Alabama

Year	Primary energy										Electricity [j]	Total energy [g,h,i]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f,g]	Total [g,h,i]		
	Prices in dollars per million Btu											
1970	0.28	0.58	0.97	1.55	0.75	2.82	0.38	1.53	0.85	0.80	5.39	1.98
1975	1.07	1.04	2.22	2.97	2.24	4.26	1.69	2.94	1.69	1.53	8.98	3.93
1980	1.73	3.27	6.22	5.05	5.91	9.89	3.39	6.31	4.31	3.78	16.19	8.27
1985	1.86	5.27	6.13	4.84	6.93	9.15	4.02	5.64	4.88	5.19	20.01	11.38
1990	1.64	5.28	5.47	8.31	8.97	8.96	2.65	5.76	3.53	5.22	19.53	12.28
1995	1.59	5.64	4.08	8.48	10.22	8.93	2.40	6.32	2.87	5.72	19.80	13.51
2000	1.52	7.37	6.75	11.72	10.38	11.42	3.62	9.70	4.37	7.80	19.34	15.10
2005	2.53	13.26	13.00	16.66	13.28	17.59	6.50	14.20	6.83	13.38	21.97	19.32
2006	2.76	15.41	15.23	18.43	16.91	19.76	7.93	16.03	7.87	15.36	23.96	21.10
2007	3.04	14.67	16.85	20.31	15.36	21.55	—	17.79	8.70	15.53	25.51	22.46
2008	—	15.23	23.50	24.62	19.04	25.80	—	23.94	10.72	17.44	28.92	25.31
2009	—	14.55	13.53	19.79	19.42	18.07	—	15.37	8.05	14.68	29.46	24.90
2010	—	13.14	17.43	21.07	20.58	21.72	—	18.52	9.50	14.45	29.83	24.88
2011	—	12.16	23.64	24.55	25.42	27.53	—	23.98	11.42	15.41	30.70	25.80
2012	—	12.36	24.35	18.62	26.61	27.99	—	23.10	12.71	15.40	31.17	26.53
2013	—	12.15	23.64	18.20	26.12	27.16	—	R 21.96	12.45	14.16	30.82	25.85
2014	—	11.73	21.53	19.29	25.33	25.89	—	20.92	12.14	13.40	31.62	26.01
2015	—	10.88	12.87	11.50	16.65	18.17	—	15.12	8.37	12.15	31.75	R 25.53
2016	—	10.39	10.97	11.39	13.27	16.31	—	13.70	7.15	11.55	32.57	25.90
2017	—	11.71	13.23	14.90	16.60	18.50	—	15.80	8.00	13.09	33.99	27.38
2018	—	11.58	16.53	16.31	23.98	20.40	10.91	18.17	8.85	R 13.67	32.94	26.49
2019	—	11.55	15.41	12.63	22.39	18.97	—	16.57	8.51	R 13.18	33.75	27.04
2020	—	11.58	10.24	11.84	14.54	15.51	8.22	13.10	7.04	R 12.04	33.84	R 26.68
2021	—	11.67	16.30	18.92	22.97	22.28	12.30	19.44	8.45	R 14.22	34.71	R 27.55
2022	—	R 13.18	27.76	20.07	36.32	29.00	19.65	27.39	13.07	R 18.66	38.57	R 31.33
2023	—	14.60	21.83	15.82	33.39	25.62	17.64	22.53	11.95	17.16	38.58	31.54
	Expenditures in million dollars											
1970	0.4	21.8	1.5	9.5	1.8	5.8	(s)	18.6	(s)	40.8	94.6	135.4
1975	0.3	35.9	7.1	14.6	3.1	10.1	(s)	34.8	0.1	71.2	199.0	270.1
1980	7.5	96.5	23.2	16.4	5.9	13.4	0.1	59.0	0.3	163.3	397.2	560.5
1985	4.4	141.3	32.6	12.7	0.6	12.1	13.0	70.9	0.6	217.3	601.1	818.4
1990	3.4	131.9	23.5	28.0	0.6	12.1	10.1	74.3	2.3	211.9	772.3	984.2
1995	0.2	152.2	15.3	30.3	0.6	1.9	(s)	48.1	1.9	202.3	867.8	1,070.1
2000	1.8	196.7	29.4	72.3	0.5	2.5	(s)	104.6	1.8	305.0	1,302.2	1,607.2
2005	0.1	341.9	56.6	33.5	1.4	4.1	0.3	95.9	2.0	439.9	1,619.5	2,059.4
2006	1.6	386.2	135.5	47.4	1.0	4.6	(s)	188.5	2.1	578.4	1,808.5	2,386.9
2007	0.1	352.7	123.2	49.1	0.4	5.0	—	177.8	2.5	533.0	1,990.6	2,523.6
2008	—	392.9	134.6	76.9	0.3	5.9	—	217.7	3.2	613.8	2,223.1	2,836.8
2009	—	362.9	76.4	43.5	0.2	4.1	—	124.1	3.0	490.1	2,203.5	2,693.6
2010	—	361.1	114.5	53.0	0.2	4.9	—	172.7	3.5	537.2	2,339.1	2,876.3
2011	—	310.8	165.1	64.9	0.3	6.2	—	236.5	4.0	551.3	2,331.4	2,882.7
2012	—	270.7	157.5	38.2	0.1	6.3	—	202.1	3.9	476.7	2,318.1	2,794.9
2013	—	312.8	R 100.3	40.7	0.4	6.3	—	R 147.6	4.4	R 464.8	2,376.6	R 2,841.4
2014	—	329.9	R 84.1	42.1	0.4	5.7	—	R 132.3	R 4.3	466.5	2,473.6	2,940.1
2015	—	281.3	R 55.8	19.4	0.2	94.3	—	R 169.7	R 0.9	451.9	2,538.6	2,990.6
2016	—	251.1	R 53.5	19.6	0.2	108.2	—	R 181.4	R 0.8	433.2	2,626.8	3,060.0
2017	—	275.9	R 64.2	30.3	0.1	98.3	—	R 192.9	R 0.7	R 469.6	2,637.5	R 3,107.1
2018	—	316.7	R 82.0	35.1	0.3	114.7	0.8	R 232.8	R 0.9	550.4	2,639.2	3,189.6
2019	—	295.3	R 71.4	26.7	0.3	107.4	—	R 205.8	R 0.8	R 501.9	2,657.6	3,159.5
2020	—	273.3	R 38.0	26.3	0.2	88.5	0.6	R 153.6	R 1.9	R 428.8	2,460.4	R 2,889.2
2021	—	309.3	R 76.7	52.0	0.3	128.6	0.3	R 257.8	R 2.3	R 569.4	2,587.0	R 3,156.4
2022	—	R 349.8	R 134.1	47.1	0.4	279.1	0.5	R 461.0	R 3.6	R 814.4	2,946.4	R 3,760.8
2023	—	360.9	94.5	33.7	0.6	143.0	0.4	272.1	3.3	636.3	2,924.0	3,560.2

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[g] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[j] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: Expenditure totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2023, Alabama

Year	Primary energy												Electricity [i]	Total energy [f,g,h]
	Coal			Natural gas [a]	Petroleum						Biomass	Total [f,g,h]		
	Coking coal	Steam coal	Total		Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e,f]			
	Prices in dollars per million Btu													
1970	0.42	0.28	0.40	0.32	0.69	1.63	2.82	0.51	0.96	0.92	1.41	0.45	2.24	0.64
1975	1.50	1.07	1.39	0.73	2.04	3.23	4.26	1.74	2.21	2.09	1.41	1.35	5.40	1.85
1980	1.96	1.73	1.89	2.46	5.28	5.50	9.89	3.05	4.62	4.44	1.41	2.56	10.29	3.85
1985	2.02	1.86	1.95	4.09	6.09	5.44	9.15	4.02	5.50	5.78	1.41	3.35	13.60	5.19
1990	1.83	1.64	1.76	3.07	5.78	9.26	8.96	2.65	4.99	5.55	0.97	2.73	12.73	4.50
1995	1.81	1.59	1.72	2.88	4.39	5.15	8.93	2.40	4.61	4.71	1.18	2.35	11.88	3.78
2000	1.62	1.52	1.57	4.28	7.02	7.77	11.42	3.62	5.89	6.20	1.44	3.06	11.35	4.48
2005	2.99	2.53	2.76	9.23	13.47	12.35	17.59	6.50	7.82	10.47	2.78	6.25	13.26	7.58
2006	3.30	2.76	3.02	9.21	15.70	15.03	19.76	7.93	9.96	12.53	2.71	6.57	14.36	8.04
2007	3.48	3.04	3.25	8.48	17.10	16.93	21.55	8.98	11.29	13.96	2.57	6.60	15.45	8.32
2008	4.36	3.18	3.72	10.33	23.86	21.47	25.80	12.87	13.03	17.71	2.91	8.24	17.91	10.13
2009	5.12	3.61	4.26	6.31	13.84	13.17	18.07	9.28	17.32	15.62	2.73	6.67	17.47	8.99
2010	5.41	3.55	4.48	6.54	17.72	15.08	21.72	11.27	R 19.40	R 18.14	2.77	R 6.82	17.62	9.05
2011	6.55	3.51	5.05	5.48	23.73	18.63	27.53	15.33	R 23.38	R 22.72	2.86	7.31	18.31	9.57
2012	6.17	4.20	5.26	4.28	24.45	13.23	27.99	16.60	R 24.57	R 23.67	2.72	R 7.01	18.24	R 9.19
2013	5.41	4.10	4.76	4.90	23.95	12.85	27.16	16.37	R 22.88	R 22.94	2.71	R 6.24	17.43	8.50
2014	4.44	3.82	4.13	5.37	22.63	13.84	25.89	15.65	R 22.79	R 22.24	3.29	R 6.31	18.03	R 8.70
2015	3.86	4.00	3.93	3.98	13.63	6.75	18.17	10.08	R 18.94	R 15.74	3.20	R 5.17	17.68	R 7.74
2016	3.44	3.46	3.45	3.69	12.02	6.65	16.31	7.18	R 15.73	R 13.13	3.13	R 4.71	17.71	R 7.30
2017	3.82	3.53	3.70	4.11	14.63	10.05	18.50	9.61	16.34	15.06	3.06	5.06	18.05	7.69
2018	4.11	3.65	3.92	4.11	17.98	11.37	20.40	10.91	19.96	18.37	2.79	5.28	17.62	7.72
2019	4.60	3.71	4.23	3.84	16.59	7.59	18.97	11.11	R 20.66	R 17.62	2.74	R 5.06	17.44	7.50
2020	3.97	3.53	3.79	3.44	11.53	6.72	15.51	8.22	R 17.87	R 14.02	2.23	4.36	17.21	6.88
2021	3.71	3.48	3.61	4.71	17.74	13.44	22.28	12.30	R 20.89	R 18.70	2.89	R 5.66	18.54	R 8.11
2022	5.93	5.21	5.57	7.64	27.80	14.23	29.00	19.65	R 27.95	R 26.65	3.13	R 8.44	22.62	R 11.27
2023	6.29	6.79	6.51	4.40	22.42	9.78	25.62	17.64	25.31	22.92	3.32	6.46	20.82	9.34
	Expenditures in million dollars													
1970	99.4	15.8	115.2	54.2	11.4	9.9	3.0	4.4	33.8	62.5	9.9	241.8	135.3	377.1
1975	269.2	63.6	332.8	102.4	52.4	20.1	4.4	61.1	80.1	218.2	11.0	664.4	372.7	1,037.1
1980	254.7	99.2	353.9	364.1	100.8	32.8	5.4	70.5	174.5	384.0	29.5	1,131.5	912.1	2,043.6
1985	156.1	116.1	272.2	498.5	92.0	19.1	24.4	2.2	222.4	360.2	34.5	1,165.5	1,036.4	2,201.8
1990	160.8	90.8	251.6	402.3	154.1	28.7	20.9	5.3	176.2	385.1	55.9	1,095.1	1,098.8	2,193.9
1995	157.7	90.4	248.1	523.7	112.2	29.7	31.3	5.6	180.1	359.0	189.0	1,319.8	1,186.9	2,506.7
2000	96.4	86.7	183.1	770.5	119.5	41.0	26.3	30.4	232.5	449.8	242.8	1,646.2	1,262.3	2,908.5
2005	132.7	116.5	249.2	1,228.9	507.4	33.6	110.2	30.5	425.2	1,107.0	424.6	3,009.8	1,504.4	4,514.2
2006	135.0	122.9	257.9	1,212.3	506.3	49.2	132.8	38.2	531.7	1,258.1	452.2	3,180.6	1,619.6	4,800.2
2007	135.6	129.2	264.7	1,139.4	483.5	83.7	124.4	46.0	514.3	1,251.8	407.3	3,063.2	1,723.8	4,786.9
2008	162.4	138.1	300.5	1,296.3	757.6	52.2	133.5	83.6	597.1	1,623.9	419.1	3,639.9	1,925.7	5,565.6
2009	131.3	122.6	253.9	724.3	332.7	23.2	91.4	18.5	477.4	943.1	246.8	2,168.1	1,554.9	3,723.1
2010	186.2	122.2	308.3	826.5	393.1	31.7	72.4	50.1	R 525.2	R 1,072.5	323.0	R 2,530.3	1,703.2	R 4,233.5
2011	214.7	113.1	327.8	731.4	561.9	37.2	88.8	102.6	R 646.9	R 1,437.5	373.9	R 2,870.6	1,853.2	R 4,723.9
2012	241.9	141.7	383.6	634.8	734.4	30.2	69.0	80.6	R 660.2	R 1,574.3	365.2	R 2,957.9	1,856.2	R 4,814.1
2013	208.5	155.3	363.9	850.7	552.4	25.5	69.8	31.4	R 516.8	R 1,195.8	403.5	R 2,813.8	1,992.2	R 4,806.0
2014	197.4	163.4	360.8	982.0	449.3	24.8	68.2	34.4	R 507.4	R 1,084.0	455.7	R 2,882.5	2,107.8	R 4,990.3
2015	133.9	139.4	273.3	724.1	296.5	11.1	77.5	34.9	R 413.0	R 833.0	421.6	R 2,252.0	2,000.2	R 4,252.2
2016	124.9	98.0	222.9	693.9	274.2	10.0	70.4	43.1	R 347.4	R 745.2	408.4	R 2,070.4	1,945.0	R 4,015.3
2017	143.3	89.3	232.6	792.0	299.4	17.8	80.5	44.6	357.7	800.0	407.5	2,232.1	2,030.4	4,262.5
2018	146.6	88.4	235.0	882.7	410.3	17.4	91.2	30.7	393.7	943.4	380.9	2,442.1	2,005.2	4,447.3
2019	130.3	76.0	206.3	818.4	334.5	14.5	84.0	40.0	R 391.1	R 863.9	376.1	R 2,264.6	1,920.3	R 4,184.9
2020	87.9	51.5	139.4	706.5	252.6	13.0	69.1	20.9	R 356.4	R 712.0	294.8	R 1,852.6	1,785.9	R 3,638.5
2021	80.4	62.0	142.4	1,086.7	380.0	37.4	97.8	46.1	R 415.2	R 976.4	399.8	R 2,605.3	2,012.6	R 4,617.9
2022	99.1	85.5	184.6	1,593.2	601.6	40.7	133.0	75.5	R 572.9	R 1,423.7	R 419.6	R 3,621.1	2,418.5	R 6,039.6
2023	90.6	74.5	165.1	943.0	473.6	24.6	116.5	56.2	509.7	1,180.6	431.2	2,720.0	2,197.1	4,917.1

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[i] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.
Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET6. Transportation sector energy price and expenditure estimates, selected years, 1970-2023, Alabama

Year	Primary energy											Electricity [g]	Total energy [f]
			Petroleum										
	Coal	Natural gas[a]	Aviation gasoline	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Lubricants	Motor gasoline [e]	Residual fuel oil	Total	Total [f]		
	Prices in dollars per million Btu												
1970	0.28	—	2.17	1.33	1.55	0.73	5.08	2.82	0.34	2.46	2.45	—	2.45
1975	1.07	—	3.45	2.92	2.97	2.03	7.48	4.26	1.47	3.67	3.67	—	3.67
1980	—	—	9.02	6.99	5.05	6.39	14.36	9.89	2.93	8.78	8.78	—	8.78
1985	—	—	9.99	6.54	6.41	6.17	18.18	9.15	3.72	8.35	8.36	—	8.36
1990	—	0.72	9.32	8.09	9.83	5.99	20.61	8.96	2.02	8.43	8.43	—	8.43
1995	—	3.41	8.36	7.62	11.71	4.06	21.75	8.93	1.91	8.19	8.19	19.73	8.19
2000	—	5.93	10.87	10.26	14.47	6.60	23.20	11.42	3.27	10.72	10.72	—	10.72
2005	—	12.69	18.56	17.25	20.71	13.07	35.22	17.59	6.64	17.32	17.32	—	17.32
2006	—	13.44	22.31	18.96	22.11	14.76	43.88	19.76	8.49	19.32	19.32	—	19.32
2007	—	12.88	23.70	20.32	24.96	16.20	47.16	21.55	8.15	20.97	20.97	—	20.97
2008	—	16.93	27.23	27.59	29.53	22.89	55.12	25.80	8.73	26.06	26.06	—	26.06
2009	—	18.67	20.32	17.33	23.50	12.88	56.07	18.07	9.63	17.87	17.87	—	17.87
2010	—	15.99	25.19	21.13	R 24.98	16.44	58.80	21.72	8.06	21.50	21.50	—	21.50
2011	—	11.27	31.64	27.18	R 28.67	22.77	69.54	27.53	11.01	27.32	R 27.31	—	R 27.31
2012	—	17.71	33.04	27.92	R 21.51	23.24	72.11	27.99	12.25	27.86	27.86	—	27.86
2013	—	R 17.44	32.71	27.64	R 21.01	22.30	69.42	27.16	11.77	27.25	27.24	—	27.24
2014	—	R 17.50	33.16	26.68	R 22.32	19.92	69.44	25.89	11.37	26.04	26.03	—	26.03
2015	—	R 16.95	24.86	18.57	R 12.92	11.87	67.28	18.17	6.12	18.38	R 18.38	—	R 18.38
2016	—	R 17.39	21.62	15.71	R 12.79	9.56	65.78	16.31	4.44	16.17	16.17	—	16.17
2017	—	R 17.78	24.13	17.92	R 17.39	11.65	67.25	18.50	6.28	18.30	18.30	—	18.30
2018	—	R 15.88	27.04	21.35	R 19.18	15.39	72.37	20.40	7.86	20.72	20.72	—	20.72
2019	—	R 16.77	25.57	20.33	R 14.39	14.59	74.92	18.97	7.40	19.45	19.45	—	19.45
2020	—	R 16.06	22.34	16.69	R 12.49	9.51	75.34	15.51	5.39	15.98	15.98	—	15.98
2021	—	R 16.84	28.86	21.91	R 21.98	14.29	81.25	22.28	8.15	22.22	22.22	—	22.22
2022	—	R 18.87	36.02	33.74	R 22.79	26.05	97.37	29.00	14.12	R 30.39	30.38	—	30.38
2023	—	16.98	32.62	28.21	16.69	20.78	105.48	25.62	11.62	26.38	26.37	—	26.37
	Expenditures in million dollars												
1970	0.1	—	3.8	41.3	0.6	7.2	13.0	538.8	3.5	608.3	608.4	—	608.4
1975	(s)	—	4.3	154.6	1.0	19.1	27.6	996.1	65.2	1,268.0	1,268.0	—	1,268.0
1980	—	—	11.3	449.8	0.9	72.3	42.3	2,282.5	64.6	2,923.8	2,923.8	—	2,923.8
1985	—	—	8.7	415.1	4.0	121.6	48.7	2,054.3	38.4	2,690.7	2,702.2	—	2,702.2
1990	—	(s)	5.4	759.4	3.6	63.1	62.2	2,283.7	36.4	3,214.0	3,228.3	—	3,228.3
1995	—	0.1	4.1	816.9	4.2	88.3	62.6	2,545.8	31.3	3,553.3	3,553.4	(s)	3,553.4
2000	—	0.4	4.5	1,220.3	2.2	87.9	71.3	3,366.0	59.4	4,811.6	4,812.0	—	4,812.0
2005	—	2.0	7.2	2,245.4	5.9	182.8	91.4	5,628.5	42.7	8,203.8	8,205.8	—	8,205.8
2006	—	1.5	13.2	2,502.9	6.8	193.6	110.9	6,366.6	79.6	9,273.6	9,275.1	—	9,275.1
2007	—	1.2	13.9	2,699.0	5.3	213.2	123.1	6,994.9	69.0	10,118.3	10,119.5	—	10,119.5
2008	—	1.5	8.3	3,133.9	13.9	281.5	133.6	8,094.9	61.9	11,728.0	11,729.5	—	11,729.5
2009	—	1.5	4.7	R 1,880.3	7.5	127.4	122.1	5,663.7	48.8	R 7,854.5	R 7,856.0	—	R 7,856.0
2010	—	1.7	9.5	R 2,477.2	R 3.4	198.7	174.8	6,884.4	47.1	R 9,795.1	R 9,796.8	—	R 9,796.8
2011	—	2.2	11.1	R 3,357.3	R 4.2	309.3	199.9	8,462.2	73.3	R 12,417.3	R 12,419.5	—	R 12,419.5
2012	—	3.5	11.1	R 3,323.7	R 3.0	301.7	188.9	8,518.3	80.7	R 12,427.3	R 12,430.8	—	R 12,430.8
2013	—	R 3.4	8.4	R 3,233.9	R 3.6	254.9	189.8	8,336.4	59.2	R 12,086.1	R 12,089.5	—	R 12,089.5
2014	—	R 6.7	9.4	R 3,160.3	R 3.8	231.6	196.0	7,942.2	62.9	R 11,606.3	R 11,613.1	—	R 11,613.1
2015	—	R 5.2	7.8	R 2,352.2	R 3.1	131.8	211.9	5,696.5	20.7	R 8,424.1	R 8,429.3	—	R 8,429.3
2016	—	R 2.6	6.8	R 2,213.1	R 3.8	99.8	209.6	5,242.4	26.4	R 7,801.9	R 7,804.5	—	R 7,804.5
2017	—	R 1.6	7.6	R 2,469.0	R 0.3	134.4	193.0	5,879.8	40.2	R 8,724.4	R 8,726.0	—	R 8,726.0
2018	—	R 1.4	9.2	R 2,726.8	R 1.5	R 175.5	187.5	6,445.7	34.0	R 9,580.2	R 9,581.6	—	R 9,581.6
2019	—	R 1.6	9.2	2,662.5	R 2.3	R 175.8	R 192.3	6,194.2	26.3	R 9,262.6	R 9,264.1	—	R 9,264.1
2020	—	R 1.2	7.1	R 2,119.9	R 1.6	R 83.1	R 187.5	5,127.5	13.8	R 7,540.5	R 7,541.7	—	R 7,541.7
2021	—	R 1.3	10.6	R 2,997.7	R 3.3	R 137.2	R 223.3	8,356.0	39.5	R 11,767.7	R 11,768.9	—	R 11,768.9
2022	—	R 1.8	13.8	R 4,484.5	R 4.2	R 250.1	R 276.9	10,748.5	70.2	R 15,848.2	R 15,850.1	—	R 15,850.1
2023	—	1.4	11.8	3,684.6	3.1	232.4	216.7	9,442.4	47.9	13,639.0	13,640.4	—	13,640.4

[a] Transportation use of natural gas as vehicle fuel only.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET7. Electric power sector price and expenditure estimates, selected years, 1970-2023, Alabama

Year	Coal	Natural gas [a]	Petroleum: Distillate fuel oil	Petroleum: Petroleum coke	Petroleum: Residual fuel oil	Petroleum: Total	Nuclear fuel	Biomass: Wood and waste [b]	Electricity imports [c]	Total energy [d]
	Prices in dollars per million Btu									
1970	0.26	0.26	0.81	0.17	—	0.20	—	—	—	0.26
1975	0.92	1.08	2.16	—	1.69	2.08	0.14	—	—	0.88
1980	1.61	2.62	6.35	—	—	6.35	0.33	—	—	1.17
1985	2.02	3.17	6.00	—	—	6.00	0.77	—	—	1.74
1990	1.84	2.16	5.57	—	—	5.57	0.56	0.46	—	1.56
1995	1.56	1.98	3.76	—	—	3.76	0.51	0.70	—	1.30
2000	1.42	4.37	6.52	—	—	6.52	0.50	0.67	—	1.28
2005	1.79	9.41	11.80	—	—	11.80	0.42	2.28	—	2.10
2006	2.11	7.11	13.60	—	—	13.60	0.41	2.32	—	2.26
2007	2.06	6.96	14.13	—	—	14.13	0.42	2.42	—	2.29
2008	2.70	9.76	18.13	—	—	18.13	0.47	2.66	—	2.93
2009	2.66	4.19	12.26	—	—	12.26	0.56	2.20	—	2.25
2010	2.81	4.75	16.29	—	—	16.29	0.63	2.40	—	2.59
2011	2.87	4.37	22.05	—	—	22.05	0.67	2.44	—	2.60
2012	3.01	3.04	22.81	—	—	22.81	0.76	2.21	—	2.30
2013	2.80	4.02	22.30	—	—	22.30	0.83	2.26	—	2.47
2014	2.69	4.57	20.94	—	—	20.94	0.80	2.73	—	2.59
2015	2.44	3.01	12.66	—	—	12.66	0.73	2.62	—	2.05
2016	2.32	2.95	10.12	—	—	10.12	0.69	2.54	—	1.98
2017	2.16	3.34	13.52	—	—	13.52	0.74	2.40	—	2.02
2018	2.27	3.40	16.26	—	—	16.26	0.74	2.22	—	2.17
2019	2.29	2.88	15.13	—	—	15.13	0.70	2.33	—	1.89
2020	2.12	2.46	9.56	—	—	9.56	0.67	1.80	—	1.64
2021	2.19	4.28	15.38	—	—	15.38	0.63	2.39	—	2.27
2022	2.81	7.65	26.31	—	—	26.31	0.64	2.69	—	3.93
2023	3.04	3.18	23.02	—	—	23.02	0.66	2.93	—	2.10
	Expenditures in million dollars									
1970	98.6	4.2	0.1	0.4	—	0.6	—	—	—	103.4
1975	367.5	6.7	6.5	—	1.0	7.5	4.2	—	—	385.8
1980	755.2	4.1	4.8	—	—	4.8	85.2	—	—	849.4
1985	1,049.4	3.8	3.1	—	—	3.1	116.6	—	—	1,172.8
1990	989.0	12.2	4.3	—	—	4.3	71.1	12.1	—	1,088.6
1995	1,067.1	17.8	4.0	—	—	4.0	111.1	14.4	—	1,214.3
2000	1,116.2	189.7	17.8	—	—	17.8	163.7	2.2	—	1,489.6
2005	1,431.2	1,013.3	18.7	—	—	18.7	139.4	7.7	—	2,610.3
2006	1,687.6	1,065.3	14.0	—	—	14.0	137.7	8.5	—	2,913.0
2007	1,659.6	1,263.5	12.1	—	—	12.1	151.7	8.9	—	3,095.9
2008	2,057.4	1,647.6	22.6	—	—	22.6	192.9	9.6	—	3,930.0
2009	1,519.8	976.2	12.5	—	—	12.5	231.8	10.7	—	2,751.0
2010	1,827.2	1,366.4	20.2	—	—	20.2	248.3	12.5	—	3,474.6
2011	1,681.9	1,526.5	23.8	—	—	23.8	277.2	11.2	—	3,520.6
2012	1,425.2	1,240.0	18.6	—	—	18.6	326.8	8.6	—	3,019.2
2013	1,367.8	1,366.6	14.0	—	—	14.0	352.0	9.3	—	3,109.6
2014	1,316.5	1,622.6	21.3	—	—	21.3	344.2	13.8	—	3,318.4
2015	1,037.0	1,236.4	9.2	—	—	9.2	321.3	11.9	—	2,615.8
2016	801.6	1,257.5	3.7	—	—	3.7	289.3	12.2	—	2,364.2
2017	684.1	1,309.2	4.4	—	—	4.4	331.2	11.3	—	2,340.3
2018	721.5	1,509.2	12.9	—	—	12.9	306.8	7.5	—	2,558.0
2019	615.3	1,240.4	2.5	—	—	2.5	319.8	1.2	—	2,179.4
2020	465.2	1,005.1	0.7	—	—	0.7	306.0	0.9	—	1,778.0
2021	591.7	1,720.8	3.2	—	—	3.2	303.7	1.3	—	2,620.7
2022	743.9	3,582.7	11.0	—	—	11.0	284.6	1.2	—	4,623.5
2023	605.9	1,467.0	4.0	—	—	4.0	312.3	1.3	—	2,390.4

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[c] Electricity imported from Canada and Mexico.
[d] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET1. Primary energy, electricity, and total energy price and expenditure estimates, selected years, 1970-2023, Alaska

Year	Primary energy														Electric power sector [i,k,l]	Electricity [m]	Total energy [h,i,j]
	Coal				Petroleum								Biomass				
	Coking coal	Steam coal	Total	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Nuclear fuel	Wood and waste [g,h]	Total [h,i,j,k]			
	Prices in dollars per million Btu																
1970	—	0.93	0.93	0.67	1.15	1.76	0.73	3.18	1.37	1.68	1.33	—	1.36	1.12	0.66	9.02	1.39
1975	—	1.40	1.40	0.89	2.88	3.39	2.04	5.15	2.34	3.30	3.00	—	1.52	2.20	0.95	9.61	2.69
1980	—	1.91	1.91	0.62	6.82	6.05	6.21	10.20	4.07	7.24	7.05	—	2.20	4.03	1.25	15.09	5.04
1985	—	2.89	2.89	1.23	7.62	13.31	6.07	9.83	4.53	7.39	7.03	—	2.71	4.66	1.71	24.52	5.94
1990	—	3.65	3.65	1.95	8.40	12.91	6.17	10.03	5.30	8.72	7.56	—	1.43	5.37	2.33	27.81	6.88
1995	—	2.05	2.05	1.88	7.14	11.68	4.54	10.90	2.78	10.32	6.62	—	1.51	4.83	1.96	29.84	6.41
2000	—	1.87	1.87	1.97	10.02	15.23	7.10	12.87	2.75	9.69	8.54	—	5.68	6.26	2.16	29.60	8.03
2005	—	2.01	2.01	3.97	16.05	20.49	13.14	19.05	4.30	16.36	14.49	—	8.51	11.65	3.72	34.43	13.99
2006	—	2.13	2.13	4.67	18.67	22.38	15.17	21.54	11.39	22.91	16.92	—	9.00	13.84	4.74	37.69	16.61
2007	—	2.34	2.34	5.76	19.56	24.82	16.35	22.89	12.93	23.00	18.09	—	9.86	14.94	5.01	38.96	17.94
2008	—	2.78	2.78	6.50	28.47	30.24	22.47	29.84	13.63	28.92	25.31	—	13.12	19.91	5.87	43.21	23.91
2009	—	2.95	2.95	7.42	21.07	24.65	13.24	23.30	10.74	15.96	17.55	—	10.17	14.59	5.56	44.29	18.22
2010	—	2.78	2.78	6.41	23.33	26.48	16.81	27.98	14.99	R 19.57	R 20.71	—	11.98	R 16.72	5.14	43.29	R 20.46
2011	—	3.01	3.01	6.61	29.43	28.89	23.12	34.44	20.07	R 21.87	R 26.80	—	14.29	R 20.80	6.17	47.13	R 25.12
2012	—	3.13	3.13	6.26	29.60	23.62	23.28	36.19	21.45	R 23.49	R 27.40	—	15.74	R 20.88	6.07	47.84	R 25.46
2013	—	3.81	3.81	6.78	29.10	22.87	22.33	34.81	20.54	R 22.89	R 26.68	—	11.64	R 20.61	6.00	48.37	R 25.01
2014	—	3.39	3.39	6.99	29.09	25.16	20.97	33.68	18.87	R 22.64	R 25.98	—	R 10.89	R 20.16	5.81	51.27	R 24.86
2015	—	4.04	4.04	7.27	20.96	17.53	12.33	27.66	9.81	R 20.36	R 18.31	—	R 9.39	R 14.92	5.82	51.65	R 18.96
2016	—	4.73	4.73	7.95	16.96	16.84	9.96	24.07	—	R 16.37	R 15.05	—	R 8.51	R 12.83	6.69	52.62	R 16.88
2017	—	5.08	5.08	8.82	19.30	21.41	12.10	26.82	—	15.95	17.04	—	R 9.27	R 14.42	7.27	56.05	18.87
2018	—	5.09	5.09	8.90	23.07	22.62	16.23	30.73	11.74	24.74	21.21	—	R 10.28	17.48	7.17	56.80	22.10
2019	—	5.12	5.12	8.98	R 21.53	18.15	14.76	31.19	—	R 20.21	19.92	—	R 10.07	16.65	7.11	59.36	21.26
2020	—	5.34	5.34	8.90	16.84	17.20	9.75	26.53	—	R 18.58	14.78	—	R 7.06	R 12.87	6.34	58.22	R 17.16
2021	—	5.29	5.29	8.13	R 22.21	23.69	14.44	34.62	12.36	R 19.98	R 19.69	—	R 8.47	R 16.20	6.89	58.80	R 20.03
2022	—	4.62	4.62	R 7.92	R 36.02	25.59	26.69	46.12	20.04	R 26.56	R 32.21	—	R 12.90	R 23.46	R 8.18	60.83	R 27.33
2023	—	5.51	5.51	8.26	30.74	21.97	21.32	42.16	17.29	24.85	27.10	—	11.53	20.27	9.32	62.84	23.84
	Expenditures in million dollars																
1970	—	12.2	12.2	26.2	33.3	1.0	27.5	43.8	8.7	8.3	122.5	—	2.9	163.9	-9.9	33.9	187.9
1975	—	21.4	21.4	54.5	116.6	2.2	85.0	113.0	15.7	21.2	353.7	—	3.1	432.7	-26.9	65.9	471.7
1980	—	8.2	8.2	64.5	264.0	3.6	335.7	196.9	9.4	43.4	853.2	—	2.5	928.4	-48.3	129.5	1,009.6
1985	—	33.4	33.4	162.4	452.3	15.4	520.3	291.3	82.1	54.3	1,415.6	—	4.2	1,615.6	-77.0	331.5	1,870.1
1990	—	45.2	45.2	223.8	515.7	18.6	604.3	308.4	12.9	43.5	1,503.5	—	7.6	1,780.1	-102.2	401.1	2,079.0
1995	—	26.4	26.4	208.5	530.7	10.5	435.6	405.6	11.5	33.0	1,426.9	—	9.9	1,671.7	-77.6	468.4	2,062.5
2000	—	30.8	30.8	230.2	632.8	12.9	1,041.0	399.9	13.6	53.3	2,153.5	—	4.5	2,419.1	-109.5	532.0	2,841.6
2005	—	28.2	28.2	367.8	1,173.0	20.4	2,379.8	677.8	19.1	56.0	4,326.1	—	4.2	4,726.5	-197.8	687.1	5,215.8
2006	—	31.9	31.9	388.1	1,507.3	22.8	2,730.7	758.1	51.0	110.6	5,180.5	—	4.4	5,604.9	-272.8	786.3	6,118.4
2007	—	31.9	31.9	460.8	1,527.7	18.9	2,693.1	815.4	59.7	99.5	5,214.2	—	5.4	5,712.4	-271.0	830.6	6,272.0
2008	—	40.8	40.8	534.4	2,136.8	38.4	3,035.0	1,021.9	33.5	100.4	6,366.0	—	7.2	6,948.6	-320.7	921.5	7,549.4
2009	—	42.7	42.7	557.1	R 1,758.9	37.7	1,407.0	795.5	36.9	190.8	R 4,226.7	—	11.3	R 4,837.8	-286.7	936.8	R 5,488.0
2010	—	40.4	40.4	479.2	R 1,851.0	35.3	1,892.5	974.8	32.0	R 302.7	R 5,088.2	—	14.1	R 5,622.0	-260.4	912.4	R 6,274.0
2011	—	46.6	46.6	545.1	R 2,481.6	36.6	2,391.2	1,158.2	38.1	R 387.0	R 6,492.7	—	16.5	R 7,101.0	-327.3	1,004.6	R 7,778.3
2012	—	48.6	48.6	513.9	R 2,346.5	30.5	2,173.1	1,220.1	58.3	R 394.3	R 6,222.8	—	15.4	R 6,800.9	-314.7	1,035.0	R 7,521.2
2013	—	56.5	56.5	495.5	R 2,131.1	28.7	1,942.8	1,141.7	12.2	R 343.1	R 5,599.7	—	20.1	R 6,171.8	-262.2	1,005.2	R 6,914.7
2014	—	61.8	61.8	R 480.9	R 2,127.7	31.8	1,829.8	1,152.3	14.1	R 329.5	R 5,485.4	—	R 20.1	R 6,048.1	-264.5	1,055.8	R 6,839.4
2015	—	78.9	78.9	500.5	R 1,639.0	19.2	1,151.2	962.0	7.2	R 313.5	R 4,092.0	—	R 32.7	R 4,704.1	-263.6	1,074.1	R 5,514.6
2016	—	78.5	78.5	R 499.7	R 1,090.8	19.6	904.6	847.5	—	R 245.7	R 3,108.3	—	R 30.4	R 3,716.9	-284.4	1,088.4	R 4,520.9
2017	—	83.2	83.2	572.9	R 1,140.7	26.6	1,116.8	918.7	—	255.9	R 3,458.7	—	R 29.0	R 4,143.8	-314.7	1,171.5	R 5,000.6
2018	—	88.2	88.2	534.8	R 1,505.7	29.3	R 1,532.7	1,039.7	(s)	178.3	R 4,285.7	—	R 34.2	R 4,943.0	-291.0	1,145.1	R 5,797.0
2019	—	90.2	90.2	528.9	R 1,396.5	24.1	R 1,377.0	1,037.5	—	R 291.0	R 4,126.2	—	R 30.8	R 4,776.0	-288.0	1,165.7	R 5,653.7
2020	—	98.9	98.9	561.9	R 992.6	21.7	R 1,019.5	783.1	—	R 268.7	R 3,085.7	—	R 10.9	R 3,757.4	-254.5	1,162.2	R 4,665.0
2021	—	98.9	98.9	650.7	R 1,577.3	32.4	R 1,830.4	1,107.6	(s)	R 310.1	R 4,857.9	—	R 13.2	R 5,620.6	-287.7	1,182.5	R 6,515.5
2022	—	86.1	86.1	R 922.6	R 2,896.6	33.5	R 3,202.9	1,491.1	(s)	R 404.4	R 8,028.5	—	R 24.7	R 9,061.8	R -350.2	1,230.2	R 9,941.8
2023	—	101.4	101.4	1,009.3	2,517.5	27.9	2,701.3	1,330.0	(s)	376.1	6,952.9	—	19.8	8,083.4	-406.3	1,275.8	8,952.9

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[l] Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
[m] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET2. Total end-use energy price and expenditure estimates, selected years, 1970-2023, Alaska

Year	Primary energy											Electricity [k]	Total energy [h,i,j]
			Petroleum							Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g,h]	Total [h,i,j]		
	Prices in dollars per million Btu												
1970	1.05	0.75	1.11	1.76	0.73	3.18	1.37	1.68	1.32	1.36	1.17	9.02	1.39
1975	1.59	1.07	2.86	3.39	2.04	5.15	2.34	3.30	3.00	1.52	2.41	9.61	2.69
1980	—	0.68	6.94	6.05	6.21	10.20	3.78	7.24	7.15	2.20	4.59	15.09	5.04
1985	3.62	1.34	7.65	13.31	6.07	9.83	4.40	7.39	7.06	2.71	5.10	24.52	5.94
1990	4.36	2.13	8.31	12.91	6.17	10.03	4.44	8.72	7.52	1.43	5.83	27.81	6.88
1995	2.05	2.10	7.13	11.68	4.54	10.90	2.77	10.32	6.63	1.51	5.21	29.84	6.41
2000	1.88	2.06	10.10	15.23	7.10	12.87	2.63	9.69	8.64	5.68	6.88	29.60	8.03
2005	1.99	4.39	16.31	20.49	13.14	19.05	4.29	16.36	14.68	8.51	12.84	34.43	13.99
2006	2.11	5.81	18.81	22.38	15.17	21.54	11.26	22.91	17.01	9.00	15.35	37.69	16.61
2007	2.30	8.09	19.55	24.82	16.35	22.89	13.16	23.00	18.13	9.86	16.57	38.96	17.94
2008	3.32	8.65	28.69	30.24	22.47	29.84	12.94	28.92	25.38	13.12	22.52	43.21	23.91
2009	4.14	9.86	21.39	24.65	13.24	23.30	—	15.96	17.71	10.17	16.25	44.29	18.22
2010	3.68	8.80	23.55	26.48	16.81	27.98	13.68	R 19.57	R 20.79	11.98	R 18.78	43.29	R 20.46
2011	3.82	8.33	29.68	28.89	23.12	34.44	17.33	R 21.87	R 26.89	14.29	R 23.49	47.13	R 25.12
2012	4.04	8.19	29.70	23.62	23.28	36.19	17.90	R 23.49	R 27.46	15.74	R 23.69	47.84	R 25.46
2013	4.89	8.58	29.35	22.87	22.33	34.81	—	R 22.89	R 26.75	11.64	R 23.11	48.37	R 25.01
2014	4.83	8.67	29.35	25.16	20.97	33.68	—	R 22.64	R 26.04	R 10.89	R 22.73	51.27	R 24.86
2015	5.04	8.74	21.13	17.53	12.33	27.66	—	R 20.36	R 18.35	R 9.39	R 16.44	51.65	R 18.96
2016	7.01	9.01	17.16	16.84	9.96	24.07	—	R 16.37	R 15.06	R 8.51	R 13.89	52.62	R 16.88
2017	7.65	10.23	19.61	21.41	12.10	26.82	—	15.95	17.07	R 9.27	15.68	56.05	18.87
2018	7.80	10.49	23.50	22.62	16.23	30.73	11.74	24.74	21.30	R 10.28	19.21	56.80	22.10
2019	7.81	10.40	22.01	18.15	14.76	31.19	—	R 20.21	20.02	R 10.07	18.22	59.36	21.26
2020	8.34	10.30	R 17.41	17.20	9.75	26.53	—	R 18.58	14.87	R 7.06	R 13.91	58.22	R 17.16
2021	8.22	9.02	R 22.50	23.69	14.44	34.62	12.36	R 19.98	R 19.72	R 8.47	R 17.47	58.80	R 20.03
2022	5.82	8.43	R 36.37	25.59	26.69	46.12	20.04	R 26.56	R 32.25	R 12.90	R 25.36	60.83	R 27.33
2023	6.84	8.29	31.12	21.97	21.32	42.16	17.29	24.85	27.14	11.53	21.61	62.84	23.84
	Expenditures in million dollars												
1970	9.4	23.1	29.4	1.0	27.5	43.8	8.6	8.3	118.6	2.9	154.0	33.9	187.9
1975	17.1	44.4	104.1	2.2	85.0	113.0	15.6	21.2	341.1	3.1	405.8	65.9	471.7
1980	—	50.7	246.9	3.6	335.7	196.9	0.4	43.4	826.9	2.5	880.1	129.5	1,009.6
1985	25.0	130.6	431.0	15.4	520.3	291.3	66.6	54.3	1,378.8	4.2	1,538.6	331.5	1,870.1
1990	34.0	169.1	486.4	18.6	604.3	308.4	6.1	43.5	1,467.2	7.6	1,677.9	401.1	2,079.0
1995	16.9	170.0	505.6	10.5	435.6	405.6	7.0	33.0	1,397.3	9.9	1,594.1	468.4	2,062.5
2000	15.4	167.0	613.7	12.9	1,041.0	399.9	1.9	53.3	2,122.7	4.5	2,309.6	532.0	2,841.6
2005	15.8	233.5	1,140.9	20.4	2,379.8	677.8	0.3	56.0	4,275.2	4.2	4,528.7	687.1	5,215.8
2006	18.4	230.1	1,454.8	22.8	2,730.7	758.1	2.1	110.6	5,079.2	4.4	5,332.1	786.3	6,118.4
2007	17.0	314.4	1,455.9	18.9	2,693.1	815.4	21.7	99.5	5,104.6	5.4	5,441.4	830.6	6,272.0
2008	28.3	334.8	2,046.1	38.4	3,035.0	1,021.9	15.8	100.4	6,257.6	7.2	6,627.9	921.5	7,549.4
2009	33.8	362.7	R 1,712.5	37.7	1,407.0	795.5	—	190.8	R 4,143.4	11.3	R 4,551.1	936.8	R 5,488.0
2010	31.6	306.4	R 1,801.4	35.3	1,892.5	974.8	2.9	R 302.7	R 5,009.5	14.1	R 5,361.6	912.4	R 6,274.0
2011	36.3	334.7	R 2,405.6	36.6	2,391.2	1,158.2	7.6	R 387.0	R 6,386.2	16.5	R 6,773.7	1,004.6	R 7,778.3
2012	37.2	342.2	R 2,266.9	30.5	2,173.1	1,220.1	6.4	R 394.3	R 6,091.4	15.4	R 6,486.2	1,035.0	R 7,521.2
2013	43.7	334.9	R 2,054.5	28.7	1,942.8	1,141.7	—	R 343.1	R 5,510.8	20.1	R 5,909.6	1,005.2	R 6,914.7
2014	40.2	319.2	R 2,060.6	31.8	1,829.8	1,152.3	—	R 329.5	R 5,404.1	R 20.1	R 5,783.7	1,055.8	R 6,839.4
2015	42.9	337.4	R 1,581.7	19.2	1,151.2	962.0	—	R 313.5	R 4,027.5	R 32.7	R 4,440.5	1,074.1	R 5,514.6
2016	48.8	R 312.0	R 1,023.8	19.6	904.6	847.5	—	R 245.7	R 3,041.3	R 30.4	R 3,432.5	1,088.4	R 4,520.9
2017	54.8	368.1	R 1,059.3	26.6	1,116.8	918.7	—	255.9	R 3,377.3	R 29.0	R 3,829.1	1,171.5	R 5,000.6
2018	54.2	364.1	R 1,419.4	29.3	R 1,532.7	1,039.7	(s)	178.3	R 4,199.4	R 34.2	R 4,652.0	1,145.1	R 5,797.0
2019	51.4	358.6	R 1,317.6	24.1	R 1,377.0	1,037.5	—	R 291.0	R 4,047.2	R 30.8	R 4,488.0	1,165.7	R 5,653.7
2020	59.5	414.8	R 924.6	21.7	R 1,019.5	783.1	—	R 268.7	R 3,017.7	R 10.9	R 3,502.8	1,162.2	R 4,665.0
2021	60.8	491.3	R 1,487.2	32.4	R 1,830.4	1,107.6	(s)	R 310.1	R 4,767.7	R 13.2	R 5,333.0	1,182.5	R 6,515.5
2022	42.5	755.6	R 2,756.9	33.5	R 3,202.9	1,491.1	(s)	R 404.4	R 7,888.7	R 24.7	R 8,711.6	1,230.2	R 9,941.8
2023	52.0	784.5	2,385.4	27.9	2,701.3	1,330.0	(s)	376.1	6,820.8	19.8	7,677.2	1,275.8	8,952.9

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. · Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2023, Alaska

Year	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
	Prices in dollars per million Btu									
1970	2.47	1.51	1.40	2.89	1.61	1.44	0.82	1.47	9.29	2.30
1975	2.87	1.62	2.80	6.07	3.23	2.88	1.62	2.23	10.16	3.23
1980	—	1.73	7.05	12.23	—	7.16	4.15	4.27	16.18	6.61
1985	7.75	2.79	7.81	13.97	10.64	8.19	4.69	4.99	25.96	9.11
1990	7.96	4.01	7.94	16.66	7.09	8.62	4.75	6.05	29.64	10.35
1995	2.04	3.61	6.02	14.02	4.81	6.28	3.86	4.67	32.93	9.36
2000	1.89	3.49	9.65	17.36	9.20	10.00	5.88	5.91	33.57	10.92
2005	1.99	5.71	14.88	22.90	12.83	15.32	9.20	9.02	38.97	14.82
2006	2.11	6.81	17.33	25.10	20.63	18.03	10.60	10.99	43.46	16.53
2007	2.30	8.63	18.28	28.11	22.62	19.10	11.71	11.83	44.49	18.02
2008	—	8.67	25.32	34.40	28.04	26.34	14.42	13.78	48.52	20.42
2009	—	10.18	18.20	31.02	23.40	19.20	10.83	13.00	50.24	20.14
2010	—	8.85	21.46	34.25	25.10	22.30	12.78	13.30	47.65	20.06
2011	—	8.66	26.58	35.02	30.13	27.12	15.36	14.19	51.63	21.47
2012	—	8.37	27.82	32.31	31.57	28.11	17.11	13.96	52.41	21.39
2013	—	8.84	27.51	32.00	31.20	27.75	16.76	R 14.16	53.10	22.20
2014	—	9.10	26.89	37.29	31.05	27.48	16.34	14.42	56.08	23.27
2015	—	9.63	18.87	28.61	16.01	19.28	11.26	R 12.47	58.11	21.25
2016	—	9.80	15.74	27.41	12.76	16.25	9.62	R 11.53	59.51	20.93
2017	—	10.65	17.95	31.54	15.96	18.69	10.76	12.82	62.34	22.10
2018	—	11.29	20.93	32.69	23.06	21.72	11.90	13.95	64.30	R 23.86
2019	—	11.31	20.16	28.91	21.53	20.66	11.46	13.74	67.17	24.22
2020	—	11.32	16.56	25.64	13.99	17.08	9.47	R 12.76	66.15	R 23.23
2021	—	11.15	19.78	32.75	22.09	20.42	11.37	R 13.74	66.09	R 23.61
2022	—	11.27	30.55	36.10	36.46	30.85	R 17.58	R 16.67	67.72	R 26.72
2023	—	11.42	27.97	33.62	31.14	28.22	16.07	16.39	70.04	26.43
	Expenditures in million dollars									
1970	0.6	9.4	11.1	0.6	0.2	11.9	0.3	22.2	16.7	38.9
1975	0.3	16.9	26.4	1.1	1.7	29.2	0.7	47.0	31.1	78.1
1980	—	13.8	48.2	1.8	—	50.0	1.2	65.0	60.3	125.2
1985	11.8	37.3	57.9	6.8	0.1	64.8	2.7	116.6	148.3	264.9
1990	12.4	53.7	72.0	12.8	0.1	84.9	3.0	154.1	168.0	322.1
1995	2.2	55.3	70.9	5.6	(s)	76.5	3.0	137.0	192.5	329.4
2000	1.7	57.2	97.2	8.4	0.7	106.3	3.8	169.0	212.5	381.5
2005	1.3	103.3	140.1	13.9	2.3	156.3	3.6	264.4	274.2	538.6
2006	1.7	141.0	194.3	13.3	32.2	239.9	3.6	386.2	314.4	700.6
2007	1.7	172.2	154.2	11.4	20.7	186.3	4.4	364.7	321.0	685.7
2008	—	186.9	182.7	25.5	22.2	230.4	6.1	423.5	352.6	776.1
2009	—	204.4	157.7	21.8	1.8	181.3	9.8	395.5	362.9	758.4
2010	—	166.4	186.4	20.2	2.1	208.7	12.4	387.4	340.3	727.8
2011	—	177.7	213.7	17.5	4.3	235.5	14.4	427.6	376.0	803.6
2012	—	181.1	217.6	16.2	1.3	235.1	13.4	429.6	386.3	815.9
2013	—	170.1	R 190.6	11.8	0.8	R 203.3	17.2	R 390.5	381.2	R 771.7
2014	—	161.6	R 179.2	14.5	1.0	R 194.7	16.9	R 373.2	391.1	R 764.3
2015	—	179.1	R 146.9	10.1	0.6	R 157.7	27.9	R 364.7	405.3	R 769.9
2016	—	174.5	R 113.2	9.5	0.8	R 123.5	25.9	R 323.9	407.4	R 731.3
2017	—	213.0	R 139.6	14.1	(s)	R 153.7	R 24.7	R 391.4	438.2	R 829.6
2018	—	204.5	R 134.2	15.0	(s)	R 149.2	R 29.9	R 383.6	433.2	R 816.8
2019	—	199.4	R 132.8	11.5	(s)	R 144.3	R 26.9	R 370.6	441.9	R 812.5
2020	—	234.5	R 118.3	11.2	(s)	R 129.5	R 8.7	R 372.7	471.5	R 844.2
2021	—	235.6	R 159.9	13.7	(s)	R 173.6	R 10.8	R 420.0	469.9	R 889.9
2022	—	223.8	R 215.9	14.6	(s)	R 230.5	R 21.0	R 475.3	473.8	R 949.0
2023	—	235.8	233.2	13.0	(s)	246.3	16.3	498.4	490.1	988.4

[a] Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2023, Alaska

Year	Primary energy										Electricity [j]	Total energy [g,h,i]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f,g]	Total [g,h,i]		
	Prices in dollars per million Btu											
1970	1.01	0.68	1.21	1.08	—	3.18	1.49	1.65	0.82	1.08	9.46	1.67
1975	1.57	0.97	2.60	2.24	—	5.15	2.52	3.20	1.62	1.81	10.83	2.59
1980	—	1.06	6.75	3.79	—	10.20	4.31	7.63	4.15	2.55	18.02	4.16
1985	2.45	2.35	6.93	12.26	10.64	9.83	—	7.80	4.69	3.54	24.36	6.96
1990	3.45	2.78	6.81	8.53	7.09	10.03	—	7.08	4.75	3.80	27.33	7.98
1995	2.05	2.25	5.92	9.64	4.81	10.90	—	6.19	3.86	2.87	28.75	7.33
2000	1.88	2.01	8.63	12.44	9.20	12.87	—	9.01	5.88	3.23	29.61	7.56
2005	1.99	4.91	14.81	16.63	12.83	19.05	—	15.42	8.11	6.62	33.87	12.79
2006	2.11	4.73	17.36	19.10	20.63	21.54	8.73	18.18	8.80	7.57	34.96	13.38
2007	2.30	7.53	17.99	20.74	22.62	22.89	—	19.07	11.58	9.10	35.72	15.11
2008	3.32	8.61	26.57	24.15	28.04	29.84	14.76	26.74	14.42	11.90	39.99	18.09
2009	4.15	9.46	16.70	18.50	23.40	23.30	—	17.22	10.83	9.92	42.38	17.40
2010	3.68	8.74	20.29	19.96	25.10	27.98	—	20.80	12.78	11.67	40.87	17.68
2011	3.82	7.99	26.78	24.45	30.13	34.44	—	27.12	15.36	12.43	44.25	18.58
2012	4.04	7.99	27.74	18.01	31.57	36.19	—	27.48	17.11	11.96	43.75	18.32
2013	4.89	8.33	27.38	18.93	31.20	34.81	—	26.98	4.63	11.53	45.66	18.71
2014	4.83	8.29	26.45	19.64	31.05	33.68	—	26.17	R 4.31	11.66	50.10	19.75
2015	5.04	8.00	19.14	12.31	16.01	27.66	—	19.91	R 5.05	10.64	51.10	R 18.55
2016	7.01	8.33	15.05	12.46	12.76	24.07	—	15.75	R 5.25	9.72	51.45	R 19.33
2017	7.66	9.91	17.25	15.74	15.96	26.82	—	17.76	R 5.32	11.24	55.36	R 21.35
2018	7.81	10.27	20.42	17.12	23.06	30.73	—	20.76	R 5.55	R 12.59	54.45	R 22.15
2019	7.82	10.06	16.90	13.62	21.53	31.19	—	17.47	R 5.65	R 11.60	58.02	R 22.26
2020	8.35	10.07	11.89	12.88	13.99	26.53	—	12.97	R 3.54	R 10.28	57.37	R 20.30
2021	8.23	10.07	17.99	19.79	22.09	34.62	—	19.02	R 4.05	R 12.19	57.46	R 21.33
2022	5.82	10.31	31.13	21.00	36.46	46.12	—	31.91	R 5.91	R 15.34	58.79	R 24.48
2023	6.85	10.49	26.32	16.97	31.14	42.16	—	26.43	5.70	14.30	61.16	23.85
	Expenditures in million dollars											
1970	0.2	8.6	3.0	0.2	—	4.1	7.5	14.8	(s)	23.6	15.4	39.0
1975	0.3	14.0	7.6	0.3	—	11.2	8.9	28.0	(s)	42.4	24.3	66.6
1980	—	17.5	22.7	0.4	—	13.8	0.1	37.0	(s)	54.5	44.8	99.3
1985	13.2	48.1	36.4	4.6	0.2	13.8	—	55.0	0.1	116.3	157.7	274.0
1990	21.6	56.9	41.6	5.0	(s)	2.7	—	49.4	0.3	128.2	198.9	327.2
1995	14.7	56.6	35.7	3.0	(s)	1.2	—	39.8	0.4	111.5	232.8	344.3
2000	13.6	54.6	58.0	4.6	(s)	4.3	—	66.9	0.6	135.7	244.4	380.1
2005	14.5	83.3	86.6	6.2	0.1	16.6	—	109.6	0.6	207.9	311.4	519.4
2006	16.7	88.1	117.5	8.0	21.6	17.4	0.2	164.7	0.7	270.2	336.3	606.4
2007	15.3	142.0	102.1	6.7	13.6	20.7	—	143.1	0.7	301.1	344.7	645.8
2008	28.3	147.4	188.4	12.1	15.0	17.7	0.1	233.4	0.9	410.0	389.1	799.1
2009	33.6	158.1	105.5	13.0	1.6	7.6	—	127.6	1.4	320.7	410.9	731.5
2010	31.4	139.8	225.4	11.5	2.3	22.2	—	261.5	1.6	434.3	394.6	829.0
2011	36.0	156.9	269.4	15.3	3.1	22.3	—	310.2	1.9	505.0	430.9	936.0
2012	37.1	161.0	236.9	12.7	2.5	17.3	—	269.5	1.8	469.4	429.2	898.6
2013	43.7	155.9	R 185.0	14.5	0.9	14.9	—	R 215.3	2.7	R 417.5	440.0	R 857.5
2014	40.1	148.8	R 193.1	14.7	0.5	12.3	—	R 220.6	R 2.9	R 412.4	472.1	R 884.5
2015	42.8	148.0	R 167.9	7.9	0.3	41.9	—	R 218.0	R 4.6	413.3	481.8	895.1
2016	48.8	133.0	R 89.8	8.2	0.3	18.6	—	R 116.9	R 4.3	R 303.0	479.5	R 782.5
2017	54.7	152.2	R 113.6	10.7	(s)	14.0	—	R 138.3	R 4.2	R 349.4	510.9	R 860.3
2018	54.1	144.7	R 151.9	12.8	(s)	16.2	—	R 180.9	R 4.2	R 383.9	491.6	R 875.5
2019	51.3	144.1	R 123.7	10.7	(s)	16.4	—	R 150.9	R 3.8	R 350.1	522.4	R 872.5
2020	59.4	164.5	R 78.5	9.1	(s)	14.0	—	R 101.6	R 2.1	R 327.5	494.1	R 821.6
2021	60.6	166.2	R 157.2	16.1	(s)	18.5	—	R 191.9	R 2.3	R 421.0	501.7	R 922.7
2022	42.4	162.6	R 234.7	16.4	(s)	46.7	—	R 297.9	R 3.6	R 506.5	516.7	R 1,023.2
2023	51.9	171.5	234.1	13.1	(s)	22.1	—	269.3	3.3	496.0	543.1	1,039.2

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[g] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[j] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: Expenditure totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2023, Alaska

Year	Primary energy												Electricity [i]	Total energy [f,g,h]
	Coal			Natural gas [a]	Petroleum						Biomass	Total [f,g,h]		
	Coking coal	Steam coal	Total		Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e,f]			
	Prices in dollars per million Btu													
1970	—	1.01	1.01	0.43	0.66	1.14	3.18	0.36	0.57	0.75	1.49	0.74	5.36	0.78
1975	—	1.57	1.57	0.81	2.68	2.44	5.15	1.85	2.11	2.65	1.49	1.66	6.79	1.83
1980	—	—	—	0.39	6.27	4.12	10.20	3.59	4.31	5.96	1.49	1.60	10.32	1.91
1985	—	—	—	0.71	6.72	13.76	9.83	4.40	4.60	5.59	1.49	2.31	19.13	2.54
1990	—	—	—	1.28	6.72	9.50	10.03	3.46	4.31	6.25	0.92	2.14	23.17	2.63
1995	—	—	—	1.44	5.34	10.06	10.90	2.74	6.59	5.28	1.14	2.61	24.56	3.18
2000	—	1.88	1.88	1.47	7.95	11.90	12.87	—	4.63	7.52	1.22	3.23	22.17	4.37
2005	—	1.99	1.99	2.58	15.21	19.21	19.05	—	7.48	14.56	2.09	7.55	27.24	9.66
2006	—	2.11	2.11	3.82	16.95	21.48	21.54	—	15.20	17.09	1.68	16.77	33.82	20.59
2007	—	2.30	2.30	—	17.18	24.70	22.89	—	11.12	16.93	2.01	16.81	37.02	21.02
2008	—	2.38	2.38	—	24.23	29.60	29.84	12.90	14.75	23.98	2.02	23.90	41.54	27.55
2009	—	2.72	2.72	—	17.48	23.38	23.30	—	13.75	16.28	1.47	16.21	38.53	18.99
2010	—	2.87	2.87	—	21.37	21.53	27.98	—	R 17.40	R 19.71	1.62	R 19.63	41.46	R 22.42
2011	—	3.65	3.65	—	29.58	26.81	34.44	—	R 19.45	R 25.19	2.12	R 25.08	46.04	R 27.31
2012	—	3.95	3.95	—	27.41	18.66	36.19	—	R 21.43	R 25.31	2.07	R 25.25	49.30	R 27.67
2013	—	4.72	4.72	8.15	27.40	19.83	34.81	—	R 20.79	R 25.28	1.82	R 24.74	46.40	R 26.67
2014	—	4.85	4.85	7.96	28.80	20.73	33.68	—	R 20.30	R 25.81	2.08	R 25.21	45.91	R 27.24
2015	—	4.98	4.98	6.85	21.58	11.47	27.66	—	R 17.98	R 20.36	2.19	R 19.79	42.57	R 22.07
2016	—	5.22	5.22	5.05	16.37	11.66	24.07	—	R 14.28	R 15.64	2.76	R 15.36	44.60	R 18.73
2017	—	5.41	5.41	4.69	17.63	14.90	26.82	—	13.72	15.66	2.22	15.38	47.89	20.16
2018	—	5.49	5.49	5.97	20.66	16.27	30.73	11.74	20.32	20.83	1.88	18.99	50.13	24.41
2019	—	5.56	5.56	5.95	16.63	12.75	31.19	—	R 17.40	R 17.39	2.63	R 16.20	49.66	R 20.89
2020	—	5.65	5.65	4.91	11.61	11.99	26.53	—	R 16.26	R 14.61	2.87	R 13.39	46.56	R 17.99
2021	—	5.74	5.74	5.30	17.52	18.84	34.62	12.34	R 17.34	R 17.74	2.95	R 13.24	49.39	R 16.26
2022	—	5.88	5.88	6.84	30.07	19.99	46.12	20.04	R 22.86	R 27.02	R 1.40	R 13.96	54.02	R 15.97
2023	—	5.96	5.96	6.54	27.21	15.93	42.16	17.28	21.79	24.91	1.52	12.71	54.81	14.75
	Expenditures in million dollars													
1970	—	8.6	8.6	5.1	6.9	0.2	1.8	0.1	1.2	10.2	2.6	26.5	1.7	28.3
1975	—	16.5	16.5	13.5	30.8	0.8	2.9	0.3	6.0	40.7	2.4	73.1	10.6	83.6
1980	—	—	—	19.5	64.0	1.3	5.9	0.3	12.5	84.0	1.2	104.8	24.5	129.2
1985	—	—	—	45.2	66.6	3.3	21.0	66.0	19.9	176.8	1.4	223.4	25.5	248.9
1990	—	—	—	58.5	55.0	0.6	2.9	1.7	8.2	68.4	4.2	131.1	34.1	165.3
1995	—	—	—	58.2	95.2	1.9	3.5	5.0	4.4	110.0	6.4	174.7	43.2	217.9
2000	—	(s)	(s)	55.2	103.9	(s)	1.7	—	10.1	115.7	(s)	170.9	75.2	246.1
2005	—	(s)	(s)	46.7	167.2	(s)	10.1	—	10.0	187.4	0.1	234.2	101.5	335.7
2006	—	0.1	0.1	0.8	212.8	1.0	11.5	—	7.1	232.4	0.1	233.4	135.7	369.1
2007	—	0.1	0.1	—	264.5	0.6	7.8	—	11.7	284.6	0.2	284.9	164.9	449.8
2008	—	(s)	(s)	—	374.7	0.7	11.2	(s)	9.8	396.4	0.1	396.5	179.8	576.3
2009	—	0.2	0.2	—	330.3	2.7	8.2	—	141.5	482.7	0.1	483.0	163.0	646.0
2010	—	0.2	0.2	—	299.4	3.5	28.6	—	R 240.5	R 572.0	0.1	R 572.3	177.4	R 749.7
2011	—	0.3	0.3	—	556.6	3.6	33.8	—	R 312.1	R 906.1	0.2	R 906.6	197.7	R 1,104.3
2012	—	0.1	0.1	—	634.9	1.4	38.7	—	R 330.3	R 1,005.2	0.2	R 1,005.5	219.6	R 1,225.1
2013	—	0.1	0.1	8.9	664.9	2.2	40.2	—	R 286.2	R 993.5	0.2	R 1,002.6	184.0	R 1,186.6
2014	—	0.1	0.1	8.8	666.0	2.5	21.7	—	R 270.7	R 960.9	0.3	R 970.1	192.6	R 1,162.7
2015	—	0.1	0.1	10.3	516.8	1.1	13.6	—	R 242.3	R 773.8	0.2	R 784.4	187.0	R 971.4
2016	—	0.1	0.1	4.3	324.7	1.8	12.0	—	R 189.1	R 527.6	0.2	R 532.2	201.5	R 733.7
2017	—	0.1	0.1	2.9	199.9	1.4	13.5	—	197.3	412.1	0.1	415.1	222.3	637.5
2018	—	0.1	0.1	14.8	252.0	1.2	16.2	(s)	111.6	381.0	0.1	396.0	220.2	616.2
2019	—	0.1	0.1	15.0	150.0	1.6	16.4	—	R 219.8	R 387.9	0.1	R 403.1	201.4	R 604.5
2020	—	0.1	0.1	15.8	107.6	1.4	14.3	—	R 212.6	R 335.9	0.1	R 351.9	196.6	R 548.5
2021	—	0.1	0.1	89.4	265.3	2.4	18.2	(s)	R 243.3	R 529.1	0.1	R 618.8	210.9	R 829.7
2022	—	0.1	0.1	369.2	460.1	2.2	25.4	(s)	R 310.6	R 798.3	0.2	R 1,167.7	239.7	R 1,407.4
2023	—	0.1	0.1	377.2	406.4	1.6	22.8	(s)	298.4	729.2	0.2	1,106.7	242.5	1,349.2

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[i] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET6. Transportation sector energy price and expenditure estimates, selected years, 1970-2023, Alaska

Year	Primary energy											Electricity [g]	Total energy [f]
			Petroleum										
	Coal	Natural gas[a]	Aviation gasoline	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Lubricants	Motor gasoline [e]	Residual fuel oil	Total	Total [f]		
	Prices in dollars per million Btu												
1970	1.01	—	2.17	1.46	1.08	0.73	5.08	3.18	1.11	1.39	1.39	—	1.39
1975	1.57	—	3.45	3.13	—	2.04	7.48	5.15	2.14	3.06	3.06	—	3.06
1980	—	—	9.02	7.39	3.79	6.21	14.36	10.20	—	7.31	7.31	—	7.31
1985	—	—	9.99	8.00	12.70	6.07	18.18	9.83	4.55	7.28	7.28	—	7.28
1990	—	—	9.32	9.03	9.05	6.17	20.61	10.03	5.00	7.56	7.56	—	7.56
1995	—	—	8.36	8.62	10.97	4.54	21.75	10.90	2.83	6.84	6.84	—	6.84
2000	—	3.85	10.87	11.48	13.85	7.10	23.20	12.87	2.63	8.64	8.64	—	8.64
2005	—	4.36	18.56	17.09	19.23	13.14	35.22	19.05	4.29	14.65	14.64	—	14.64
2006	—	6.18	22.31	19.87	21.03	15.17	43.88	21.54	11.55	16.92	16.91	—	16.91
2007	—	6.62	23.70	20.80	23.02	16.35	47.16	22.89	13.16	18.15	18.14	—	18.14
2008	—	15.34	27.23	31.31	27.82	22.47	55.12	29.84	12.92	25.39	25.39	—	25.39
2009	—	11.92	20.32	24.24	21.01	13.24	56.07	23.30	—	17.88	17.88	—	17.88
2010	—	12.83	25.19	25.53	24.09	16.81	58.80	27.98	13.68	20.89	20.88	—	20.88
2011	—	9.76	31.64	30.94	28.73	23.12	69.54	34.44	17.33	27.20	27.20	—	27.20
2012	—	10.93	33.04	31.99	20.62	23.28	72.11	36.19	17.90	27.95	27.94	—	27.94
2013	—	R 11.33	32.71	31.64	21.78	22.33	69.42	34.81	—	27.07	R 27.07	—	R 27.07
2014	—	R 11.25	33.16	30.86	22.68	20.97	69.44	33.68	—	R 26.03	R 26.03	—	R 26.03
2015	—	R 11.04	24.86	21.84	13.45	12.33	67.28	27.66	—	17.73	17.73	—	17.73
2016	—	R 11.19	21.62	18.61	13.64	9.96	65.78	24.07	—	14.84	14.84	—	14.84
2017	—	R 11.60	24.13	21.40	18.15	12.10	67.25	26.82	—	17.18	17.18	—	17.18
2018	—	R 11.72	27.04	25.66	19.39	16.23	72.37	30.73	—	21.36	21.36	—	21.36
2019	—	R 11.84	25.57	24.67	16.83	14.76	74.92	31.19	—	20.48	20.48	—	20.48
2020	—	R 11.75	22.34	20.60	15.69	9.75	75.34	26.53	—	14.90	R 14.89	—	R 14.89
2021	—	R 11.59	28.86	26.51	23.82	14.44	81.25	34.62	—	R 20.03	R 20.03	—	R 20.03
2022	—	R 14.07	36.02	40.23	23.09	26.69	97.37	46.12	—	R 33.09	R 33.09	—	R 33.09
2023	—	17.52	32.62	33.99	17.99	21.32	105.48	42.16	—	27.46	27.46	—	27.46
	Expenditures in million dollars												
1970	(s)	—	5.1	8.5	(s)	27.5	1.8	37.9	0.9	81.7	81.8	—	81.8
1975	(s)	—	8.1	39.3	—	85.0	5.5	98.9	6.5	243.3	243.3	—	243.3
1980	—	—	22.7	112.1	0.1	335.7	8.2	177.1	—	655.9	655.9	—	655.9
1985	—	—	24.7	270.1	0.7	520.3	9.4	256.5	0.5	1,082.2	1,082.2	—	1,082.2
1990	—	—	23.1	317.7	0.2	604.3	12.0	302.7	4.3	1,264.5	1,264.5	—	1,264.5
1995	—	—	16.4	303.8	0.1	435.6	12.1	400.9	2.0	1,170.9	1,170.9	—	1,170.9
2000	—	(s)	28.6	354.5	(s)	1,041.0	13.8	393.9	1.9	1,833.9	1,833.9	—	1,833.9
2005	—	0.2	26.0	746.8	0.3	2,379.8	17.7	651.1	0.3	3,822.0	3,822.1	—	3,822.1
2006	—	0.2	28.2	930.2	0.3	2,730.7	21.5	729.3	2.0	4,442.1	4,442.3	—	4,442.3
2007	—	0.2	29.6	935.1	0.3	2,693.1	23.8	787.0	21.7	4,490.5	4,490.7	—	4,490.7
2008	—	0.4	27.5	1,300.3	0.1	3,035.0	25.9	993.0	15.7	5,397.5	5,397.9	—	5,397.9
2009	—	0.3	22.2	R 1,119.0	0.1	1,407.0	23.7	779.7	—	R 3,351.7	R 3,352.0	—	R 3,352.0
2010	—	0.3	21.5	R 1,090.0	0.1	1,892.5	36.2	924.0	2.9	R 3,967.2	R 3,967.5	—	R 3,967.5
2011	—	0.1	25.3	R 1,365.9	0.1	2,391.2	42.2	1,102.1	7.6	R 4,934.4	R 4,934.5	—	R 4,934.5
2012	—	0.1	25.6	R 1,177.5	0.2	2,173.1	34.6	1,164.1	6.4	R 4,581.5	R 4,581.7	—	R 4,581.7
2013	—	0.1	22.9	R 1,014.0	0.3	1,942.8	32.2	1,086.6	—	R 4,098.8	R 4,098.9	—	R 4,098.9
2014	—	0.1	21.8	R 1,022.2	0.1	1,829.8	35.5	1,118.4	—	R 4,027.9	R 4,028.0	—	R 4,028.0
2015	—	0.1	32.5	R 750.1	0.1	1,151.2	37.8	906.4	—	R 2,878.1	R 2,878.2	—	R 2,878.2
2016	—	0.1	26.8	R 496.1	0.1	904.6	28.8	816.9	—	R 2,273.3	R 2,273.4	—	R 2,273.4
2017	—	R 0.1	29.9	R 606.3	0.4	1,116.8	28.8	891.1	—	R 2,673.2	R 2,673.2	—	R 2,673.2
2018	—	R 0.1	34.2	R 881.4	0.4	R 1,532.7	32.5	1,007.3	—	R 3,488.4	R 3,488.4	—	R 3,488.4
2019	—	(s)	31.8	R 911.0	0.3	R 1,377.0	39.4	1,004.7	—	R 3,364.1	R 3,364.2	—	R 3,364.2
2020	—	R 0.1	20.4	R 620.2	(s)	R 1,019.5	35.6	754.8	—	R 2,450.7	R 2,450.7	—	R 2,450.7
2021	—	R 0.1	29.9	R 904.9	0.2	R 1,830.4	36.8	1,070.9	—	R 3,873.1	R 3,873.2	—	R 3,873.2
2022	—	R 0.1	38.7	R 1,846.1	0.2	R 3,202.9	R 55.1	1,419.0	—	R 6,562.1	R 6,562.2	—	R 6,562.2
2023	—	(s)	33.2	1,511.7	0.2	2,701.3	44.5	1,285.2	—	5,576.1	5,576.1	—	5,576.1

[a] Transportation use of natural gas as vehicle fuel only.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET7. Electric power sector price and expenditure estimates, selected years, 1970-2023, Alaska

Year	Coal	Natural gas [a]	Petroleum: Distillate fuel oil	Petroleum: Petroleum coke	Petroleum: Residual fuel oil	Petroleum: Total	Nuclear fuel	Biomass: Wood and waste [b]	Electricity imports [c]	Total energy [d]
	Prices in dollars per million Btu									
1970	0.68	0.37	1.68	—	1.35	1.68	—	—	1.92	0.66
1975	0.96	0.51	3.10	—	2.86	3.10	—	—	—	0.95
1980	1.91	0.48	5.48	—	4.08	4.90	—	—	—	1.25
1985	1.80	0.92	7.06	—	5.18	6.12	—	—	—	1.71
1990	2.46	1.55	10.36	—	6.38	9.27	—	—	8.37	2.33
1995	2.05	1.29	7.28	—	2.81	5.85	—	—	6.21	1.96
2000	1.87	1.77	7.91	—	2.77	4.64	—	—	16.78	2.16
2005	2.04	3.40	10.26	—	4.30	6.79	—	—	16.53	3.72
2006	2.15	3.63	15.42	—	11.40	13.18	—	—	17.32	4.74
2007	2.38	3.56	19.58	—	12.80	16.55	—	—	18.25	5.01
2008	2.03	4.60	24.12	—	14.31	21.69	—	—	18.28	5.87
2009	1.41	5.07	13.53	—	10.74	12.13	—	—	12.10	5.56
2010	1.48	4.32	17.56	—	15.13	16.58	—	—	13.31	5.14
2011	1.73	4.97	23.21	—	20.89	22.49	—	—	11.53	6.17
2012	1.81	4.27	27.04	—	21.99	24.79	—	—	9.51	6.07
2013	2.18	4.72	23.77	—	20.54	23.27	—	—	11.49	6.00
2014	2.18	5.05	22.98	—	18.87	22.14	—	—	—	5.81
2015	3.27	5.40	17.12	—	9.81	15.81	—	—	—	5.82
2016	3.08	6.65	14.43	—	—	14.43	—	—	8.74	6.69
2017	3.08	7.07	16.06	—	—	16.06	—	—	9.18	7.27
2018	3.28	6.73	17.76	—	—	17.76	—	—	10.74	7.17
2019	3.51	6.97	15.74	—	—	15.74	—	—	—	7.11
2020	3.46	6.42	11.67	—	—	11.67	—	—	—	6.34
2021	3.37	6.25	18.32	—	—	18.32	—	—	—	6.89
2022	3.85	R 6.22	30.16	—	—	30.16	—	—	—	R 8.18
2023	4.57	8.16	25.12	—	—	25.12	—	—	—	9.32
	Expenditures in million dollars									
1970	2.9	3.1	3.9	—	(s)	3.9	—	—	(s)	9.9
1975	4.3	10.1	12.5	—	(s)	12.6	—	—	—	26.9
1980	8.2	13.8	17.2	—	9.1	26.3	—	—	—	48.3
1985	8.4	31.8	21.3	—	15.5	36.8	—	—	—	77.0
1990	11.3	54.6	29.4	—	6.9	36.2	—	—	(s)	102.2
1995	9.5	38.5	25.1	—	4.5	29.6	—	—	(s)	77.6
2000	15.5	63.2	19.1	—	11.7	30.8	—	—	0.1	109.5
2005	12.4	134.4	32.1	—	18.8	50.9	—	—	0.1	197.8
2006	13.4	158.0	52.4	—	48.9	101.3	—	—	0.1	272.8
2007	14.9	146.4	71.7	—	37.9	109.7	—	—	0.1	271.0
2008	12.5	199.7	90.7	—	17.7	108.4	—	—	0.1	320.7
2009	9.0	194.4	46.4	—	36.9	83.3	—	—	(s)	286.7
2010	8.8	172.8	49.6	—	29.1	78.7	—	—	(s)	260.4
2011	10.3	210.4	76.0	—	30.5	106.6	—	—	(s)	327.3
2012	11.4	171.8	79.6	—	51.9	131.5	—	—	(s)	314.7
2013	12.8	160.6	76.7	—	12.2	88.9	—	—	(s)	262.2
2014	21.5	161.6	67.1	—	14.1	81.3	—	—	—	264.5
2015	36.0	163.1	57.3	—	7.2	64.5	—	—	—	263.6
2016	29.7	187.7	67.0	—	—	67.0	—	—	(s)	284.4
2017	28.4	204.8	81.4	—	—	81.4	—	—	(s)	314.7
2018	34.0	170.6	86.3	—	—	86.3	—	—	(s)	291.0
2019	38.7	170.3	79.0	—	—	79.0	—	—	—	288.0
2020	39.4	147.1	68.0	—	—	68.0	—	—	—	254.5
2021	38.1	159.4	90.1	—	—	90.1	—	—	—	287.7
2022	43.5	R 166.9	139.7	—	—	139.7	—	—	—	R 350.2
2023	49.4	224.7	132.1	—	—	132.1	—	—	—	406.3

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[c] Electricity imported from Canada and Mexico.
[d] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET1. Primary energy, electricity, and total energy price and expenditure estimates, selected years, 1970-2023, Arizona

Year	Primary energy														Electric power sector [i,k,l]	Electricity [m]	Total energy [h,i,j]
	Coal			Natural gas [a]	Petroleum							Nuclear fuel	Biomass				
	Coking coal	Steam coal	Total		Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total		Wood and waste [g,h]	Total [h,i,j,k]			
	Prices in dollars per million Btu																
1970	—	0.21	0.21	0.54	1.10	1.96	0.76	2.80	0.48	1.06	1.96	—	1.05	1.29	0.33	5.32	1.97
1975	—	0.23	0.23	1.01	2.49	3.99	2.12	4.62	2.08	2.83	3.45	—	1.44	2.25	0.84	9.65	3.87
1980	—	1.01	1.01	2.86	6.57	6.83	6.59	9.68	3.92	6.13	8.14	—	2.17	4.48	1.35	15.68	8.38
1985	—	1.36	1.36	4.92	6.90	10.27	6.20	9.06	3.79	7.12	8.18	0.65	2.55	4.61	1.61	21.15	10.03
1990	—	1.45	1.45	4.52	7.84	11.84	6.04	9.22	3.31	6.35	8.39	0.72	3.26	3.98	1.21	22.81	11.23
1995	—	1.42	1.42	4.63	7.82	11.16	4.34	9.66	2.82	6.34	8.52	0.49	2.62	4.03	1.02	22.32	11.29
2000	—	1.26	1.26	5.95	10.57	14.34	7.08	12.20	5.25	6.51	10.92	0.44	5.67	5.07	1.37	21.25	12.94
2005	—	1.42	1.42	8.83	17.73	20.24	13.14	18.74	7.48	8.16	17.42	0.55	7.85	8.61	2.79	22.83	17.87
2006	—	1.45	1.45	8.12	19.38	23.24	15.27	20.70	8.78	9.93	19.40	0.63	8.90	9.34	2.58	24.14	19.70
2007	—	1.61	1.61	8.44	20.11	25.92	16.24	22.22	10.04	10.71	20.70	0.57	10.47	9.63	2.78	25.02	20.87
2008	—	1.76	1.76	9.75	25.71	30.54	21.37	25.89	—	12.48	24.95	0.56	10.75	10.96	3.26	26.71	23.95
2009	—	1.83	1.83	6.38	16.28	26.20	12.50	18.74	—	17.52	17.82	0.59	5.57	7.74	2.04	28.01	20.14
2010	—	1.81	1.81	6.86	20.29	27.45	16.63	22.50	—	R 21.84	21.24	0.69	6.11	9.17	2.13	28.40	R 22.01
2011	—	1.99	1.99	7.45	26.07	31.12	22.84	27.70	17.00	R 24.80	26.56	0.82	7.03	R 11.29	2.29	28.46	25.23
2012	—	2.09	2.09	5.52	27.28	24.99	23.28	29.11	—	R 26.25	R 27.71	0.89	6.47	R 11.26	2.00	28.74	R 26.04
2013	—	2.08	2.08	R 6.20	26.50	25.78	22.56	28.00	—	R 26.27	26.81	0.92	7.66	11.01	2.26	29.71	R 25.71
2014	—	2.11	2.11	R 7.16	25.56	28.70	21.30	27.09	—	R 26.60	R 25.95	0.82	R 6.74	R 10.94	2.33	29.83	R 25.52
2015	—	2.08	2.08	R 5.52	17.87	19.27	12.19	22.25	—	R 23.71	R 19.91	0.77	R 5.34	R 8.81	1.95	30.31	R 21.91
2016	—	2.14	2.14	R 5.07	15.69	18.86	10.27	19.36	—	R 20.00	R 17.35	0.83	R 4.53	R 8.17	1.96	30.28	R 20.13
2017	—	2.24	2.24	R 5.55	R 18.28	22.69	12.47	21.58	—	20.57	19.57	0.74	R 4.97	R 9.19	2.04	31.18	21.80
2018	—	2.44	2.44	R 4.72	21.92	24.90	15.93	24.72	—	23.03	22.89	0.68	R 5.60	10.23	2.01	31.80	R 23.99
2019	—	2.57	2.57	R 3.64	21.04	20.97	14.76	25.09	—	R 23.54	22.65	0.73	R 5.84	R 10.04	1.77	30.83	R 23.31
2020	—	2.18	2.18	R 3.68	R 17.23	18.82	9.75	21.34	—	R 22.12	R 19.04	0.70	R 4.31	8.54	1.73	30.59	R 21.26
2021	—	2.34	2.34	R 6.04	R 22.62	25.84	14.81	27.85	—	R 24.29	24.77	0.65	R 5.57	R 11.98	2.74	31.44	25.07
2022	—	2.87	2.87	R 9.41	R 33.87	27.27	25.80	37.10	—	R 31.83	R 34.53	0.66	R 8.58	R 16.86	R 4.31	33.16	R 31.72
2023	—	3.11	3.11	6.29	29.57	24.74	20.86	33.92	—	28.25	30.82	0.64	7.29	14.36	2.74	35.72	30.28
	Expenditures in million dollars																
1970	—	1.8	1.8	96.8	31.3	9.7	27.5	316.9	0.3	31.4	417.2	—	0.7	516.5	-23.5	250.1	743.1
1975	—	21.1	21.1	148.4	147.1	16.6	82.9	671.9	77.7	60.4	1,056.6	—	1.2	1,227.5	-129.8	697.1	1,794.7
1980	—	247.0	247.0	434.0	412.0	40.1	289.7	1,555.4	33.0	118.0	2,448.2	—	7.1	3,136.2	-398.7	1,431.6	4,169.1
1985	—	465.7	465.7	580.6	406.4	65.7	244.4	1,720.1	4.2	152.4	2,593.3	7.8	11.1	3,658.6	-580.3	2,381.4	5,459.7
1990	—	498.2	498.2	464.0	518.8	59.9	285.9	1,903.9	0.5	130.8	2,899.8	156.7	20.9	4,039.7	-694.2	3,181.1	6,526.6
1995	—	486.4	486.4	504.2	688.8	79.9	186.7	2,370.9	1.4	163.2	3,491.0	138.7	19.8	4,647.1	-647.9	3,700.4	7,699.5
2000	—	546.1	546.1	1,114.6	1,225.9	90.4	418.9	3,581.2	2.3	187.7	5,506.4	139.7	27.8	7,337.2	-1,143.6	4,431.2	10,624.8
2005	—	610.4	610.4	2,750.2	2,675.1	106.8	597.4	6,567.1	1.0	289.4	10,236.9	147.9	39.5	13,790.7	-2,529.3	5,404.4	16,665.8
2006	—	626.9	626.9	2,795.6	3,019.0	137.0	668.3	7,437.3	1.0	321.7	11,584.3	156.8	40.3	15,211.5	-2,377.0	6,034.1	18,868.5
2007	—	705.5	705.5	3,217.5	3,062.9	151.6	608.7	7,998.0	1.4	342.5	12,165.1	158.9	48.2	16,309.1	-2,761.3	6,589.5	20,137.4
2008	—	808.0	808.0	3,773.9	3,869.1	289.2	819.5	8,694.5	—	347.5	14,019.8	170.2	70.0	18,847.3	-3,404.1	6,951.5	22,394.7
2009	—	754.4	754.4	2,272.1	R 2,255.3	201.9	332.0	6,048.9	—	403.4	R 9,241.5	190.0	19.4	R 12,482.4	-2,029.0	7,017.4	R 17,470.8
2010	—	829.1	829.1	2,198.8	R 2,925.7	218.7	1,203.3	7,198.3	—	R 570.3	R 12,116.4	225.1	24.4	R 15,405.0	-2,139.5	7,058.8	R 20,324.3
2011	—	917.2	917.2	2,084.4	R 3,934.5	281.0	1,697.5	8,705.2	0.7	R 660.3	R 15,279.2	267.7	28.0	R 18,596.1	-2,211.4	7,278.6	R 23,663.4
2012	—	879.9	879.9	1,802.3	R 3,975.8	163.8	1,693.7	9,064.2	—	R 623.2	R 15,520.7	296.2	26.9	R 18,528.7	-1,971.0	7,361.0	R 23,918.7
2013	—	946.8	946.8	R 2,029.5	R 3,867.6	195.0	1,658.0	8,914.1	—	R 588.0	R 15,222.7	302.7	31.5	R 18,534.5	-2,281.0	7,669.3	R 23,922.9
2014	—	944.6	944.6	R 2,161.4	R 3,656.0	226.9	1,595.1	8,682.2	—	R 605.8	R 14,766.0	276.7	R 35.5	R 18,186.9	-2,322.9	7,764.4	R 23,628.4
2015	—	801.9	801.9	R 1,930.0	R 2,536.0	145.6	920.7	7,499.8	—	R 561.4	R 11,663.5	262.5	R 31.3	R 14,689.9	-1,918.6	7,999.5	R 20,770.8
2016	—	692.8	692.8	R 1,822.3	R 2,339.3	163.5	773.5	6,751.3	—	R 501.8	R 10,529.3	280.1	R 25.1	R 13,353.5	-1,820.6	8,082.0	R 19,614.9
2017	—	750.0	750.0	R 1,782.5	R 2,780.7	192.1	981.6	7,564.6	—	491.0	R 12,010.0	250.9	R 24.3	R 14,819.6	-1,843.4	8,259.5	R 21,235.6
2018	—	809.2	809.2	R 1,828.7	R 3,354.8	231.7	R 1,213.4	8,841.3	—	566.6	R 14,207.8	222.3	R 33.2	R 17,103.7	-1,909.1	8,500.6	R 23,695.1
2019	—	662.7	662.7	R 1,704.9	R 3,398.1	225.9	R 1,168.6	9,041.0	—	R 626.2	R 14,459.8	243.3	R 39.4	R 17,110.2	-1,694.3	8,197.1	R 23,613.0
2020	—	341.5	341.5	R 1,829.0	R 2,785.4	186.9	R 543.3	6,858.2	—	R 548.8	R 10,922.4	232.2	R 24.8	R 13,349.9	-1,532.5	8,553.1	R 20,370.5
2021	—	374.7	374.7	R 2,826.0	R 3,867.8	272.1	R 1,068.6	9,815.3	—	R 662.3	R 15,686.1	215.6	R 29.9	R 19,132.2	-2,351.4	8,711.9	R 25,492.6
2022	—	442.3	442.3	R 4,250.9	R 5,300.3	298.1	R 1,926.0	13,056.0	—	R 870.0	R 21,450.4	220.3	R 49.7	R 26,413.5	-3,598.6	9,524.9	R 32,339.9
2023	—	428.3	428.3	3,266.8	4,546.4	252.6	1,650.8	12,139.5	—	721.7	19,311.1	211.7	43.6	23,261.5	-2,404.5	10,471.0	31,328.0

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[l] Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
[m] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET2. Total end-use energy price and expenditure estimates, selected years, 1970-2023, Arizona

Year	Primary energy											Electricity [k]	Total energy [h,i,j]
			Petroleum							Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g,h]	Total [h,i,j]		
	Prices in dollars per million Btu												
1970	0.63	0.64	1.10	1.96	0.76	2.80	0.46	1.06	1.96	1.05	1.49	5.32	1.97
1975	0.98	1.06	2.53	3.99	2.12	4.62	1.96	2.83	3.68	1.44	2.80	9.65	3.87
1980	1.58	3.10	6.57	6.83	6.59	9.68	3.95	6.13	8.26	2.17	6.74	15.68	8.38
1985	1.80	5.63	6.92	10.27	6.20	9.06	4.13	7.12	8.20	2.55	7.13	21.15	10.03
1990	1.97	5.22	7.89	11.84	6.04	9.22	3.18	6.35	8.40	3.26	7.57	22.81	11.23
1995	2.03	5.40	7.84	11.16	4.34	9.66	2.78	6.34	8.52	2.62	7.75	22.32	11.29
2000	1.88	7.23	10.61	14.34	7.08	12.20	4.44	6.51	10.93	5.67	10.11	21.25	12.94
2005	2.18	10.82	17.74	20.24	13.14	18.74	7.46	8.16	17.42	8.66	16.18	22.83	17.87
2006	2.19	13.06	19.40	23.24	15.27	20.70	8.80	9.93	19.40	9.78	18.13	24.14	19.70
2007	2.76	13.73	20.12	25.92	16.24	22.22	10.04	10.71	20.70	10.82	19.31	25.02	20.87
2008	2.80	13.95	25.73	30.54	21.37	25.89	—	12.48	24.95	13.43	22.89	26.71	23.95
2009	2.60	13.35	16.29	26.20	12.50	18.74	—	17.52	17.82	8.97	16.94	28.01	20.14
2010	2.73	12.02	20.30	27.45	16.63	22.50	—	R 21.84	21.24	9.97	19.65	28.40	R 22.01
2011	2.75	11.14	26.08	31.12	22.84	27.70	17.00	R 24.80	R 26.57	13.79	24.02	28.46	25.23
2012	3.14	10.77	27.29	24.99	23.28	29.11	—	R 26.25	R 27.71	15.20	24.99	28.74	R 26.04
2013	2.87	R 10.14	26.51	25.78	22.56	28.00	—	R 26.27	R 26.82	15.63	R 24.18	29.71	R 25.71
2014	2.94	R 11.86	R 25.58	28.70	21.30	27.09	—	R 26.60	25.95	R 15.43	R 23.83	29.83	R 25.52
2015	2.93	R 11.78	17.89	19.27	12.19	22.25	—	R 23.71	R 19.92	R 10.78	R 18.67	30.31	R 21.91
2016	2.87	R 10.33	15.70	18.86	10.27	19.36	—	R 20.00	R 17.35	R 9.17	R 16.31	30.28	R 20.13
2017	2.86	R 10.62	18.29	22.69	12.47	21.58	—	20.57	19.57	R 9.35	18.30	31.18	21.80
2018	2.88	R 10.43	21.93	24.90	15.93	24.72	—	23.03	22.89	R 10.50	R 21.09	31.80	R 23.99
2019	3.09	R 9.17	21.06	20.97	14.76	25.09	—	R 23.54	22.66	R 10.36	R 20.63	30.83	R 23.31
2020	3.00	R 8.91	17.24	18.82	9.75	21.34	—	R 22.12	19.05	R 8.35	R 17.41	30.59	R 21.26
2021	3.05	R 10.79	22.64	25.84	14.81	27.85	—	R 24.29	R 24.77	R 9.95	22.68	31.44	25.07
2022	3.57	R 12.78	R 33.89	27.27	25.80	37.10	—	R 31.83	R 34.53	R 15.07	R 31.16	33.16	R 31.72
2023	4.64	13.93	29.59	24.74	20.86	33.92	—	28.25	30.82	13.55	28.13	35.72	30.28
	Expenditures in million dollars												
1970	0.1	75.2	31.3	9.7	27.5	316.9	0.2	31.4	417.1	0.7	493.0	250.1	743.1
1975	2.6	134.5	126.4	16.6	81.7	671.9	2.3	60.4	959.3	1.2	1,097.6	697.1	1,794.7
1980	20.6	307.3	395.5	40.1	289.7	1,555.4	3.8	118.0	2,402.5	7.1	2,737.5	1,431.6	4,169.1
1985	69.7	415.1	398.8	65.7	244.4	1,720.1	0.8	152.4	2,582.3	11.1	3,078.3	2,381.4	5,459.7
1990	26.1	404.8	512.8	59.9	285.9	1,903.9	0.2	130.8	2,893.6	20.9	3,345.4	3,181.1	6,526.6
1995	26.8	465.1	685.6	79.9	186.7	2,370.9	1.2	163.2	3,487.6	19.8	3,999.2	3,700.4	7,699.5
2000	30.0	648.9	1,208.1	90.4	418.9	3,581.2	0.6	187.7	5,487.0	27.8	6,193.6	4,431.2	10,624.8
2005	34.7	958.1	2,668.8	106.8	597.4	6,567.1	1.0	289.4	10,230.5	38.0	11,261.4	5,404.4	16,665.8
2006	35.7	1,187.7	3,006.6	137.0	668.3	7,437.3	1.0	321.7	11,571.9	39.2	12,834.4	6,034.1	18,868.5
2007	42.2	1,301.2	3,054.7	151.6	608.7	7,998.0	1.4	342.5	12,156.9	47.5	13,547.8	6,589.5	20,137.4
2008	36.2	1,333.0	3,858.6	289.2	819.5	8,694.5	—	347.5	14,009.3	64.7	15,443.2	6,951.5	22,394.7
2009	22.7	1,182.6	R 2,246.4	201.9	332.0	6,048.9	—	403.4	R 9,232.7	15.5	R 10,453.4	7,017.4	R 17,470.8
2010	29.4	1,112.5	R 2,913.4	218.7	1,203.3	7,198.3	—	R 570.3	R 12,104.0	19.5	R 13,265.5	7,058.8	R 20,324.3
2011	27.5	1,068.7	R 3,921.6	281.0	1,697.5	8,705.2	0.7	R 660.3	R 15,266.3	22.2	R 16,384.8	7,278.6	R 23,663.4
2012	27.3	999.1	R 3,965.6	163.8	1,693.7	9,064.2	—	R 623.2	R 15,510.5	20.8	R 16,557.7	7,361.0	R 23,918.7
2013	12.4	R 1,003.8	R 3,856.3	195.0	1,658.0	8,914.1	—	R 588.0	R 15,211.4	26.0	R 16,253.6	7,669.3	R 23,922.9
2014	15.3	R 1,071.2	R 3,641.9	226.9	1,595.1	8,682.2	—	R 605.8	R 14,751.9	R 25.7	R 15,864.0	7,764.4	R 23,628.4
2015	15.9	R 1,078.1	R 2,528.7	145.6	920.7	7,499.8	—	R 561.4	R 11,656.2	R 21.0	R 12,771.3	7,999.5	R 20,770.8
2016	11.7	R 983.0	R 2,332.9	163.5	773.5	6,751.3	—	R 501.8	R 10,522.9	R 15.2	R 11,532.9	8,082.0	R 19,614.9
2017	15.1	R 942.7	R 2,772.2	192.1	981.6	7,564.6	—	491.0	R 12,001.4	R 16.9	R 12,976.1	8,259.5	R 21,235.6
2018	18.8	R 951.9	R 3,345.4	231.7	R 1,213.4	8,841.3	—	566.6	R 14,198.4	R 25.4	R 15,194.5	8,500.6	R 23,695.1
2019	20.2	R 917.4	R 3,386.0	225.9	R 1,168.6	9,041.0	—	R 626.2	R 14,447.7	R 30.5	R 15,415.9	8,197.1	R 23,613.0
2020	19.5	R 862.9	R 2,779.5	186.9	R 543.3	6,858.2	—	R 548.8	R 10,916.6	R 18.4	R 11,817.4	8,553.1	R 20,370.5
2021	19.3	R 1,061.5	R 3,859.2	272.1	R 1,068.6	9,815.3	—	R 662.3	R 15,677.5	R 22.4	R 16,780.8	8,711.9	R 25,492.6
2022	21.4	R 1,311.7	R 5,290.3	298.1	R 1,926.0	13,056.0	—	R 870.0	R 21,440.4	R 41.5	R 22,815.0	9,524.9	R 32,339.9
2023	25.3	1,495.9	4,537.8	252.6	1,650.8	12,139.5	—	721.7	19,302.5	33.3	20,857.0	10,471.0	31,328.0

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. · Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2023, Arizona

Year	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
	Prices in dollars per million Btu									
1970	—	1.13	1.27	2.61	2.88	2.43	0.72	1.27	6.99	2.95
1975	—	1.46	2.82	5.55	4.65	4.47	1.43	1.71	11.67	5.27
1980	—	3.88	7.27	8.46	—	8.46	3.66	4.17	18.28	11.09
1985	3.85	6.69	4.00	10.25	11.18	10.13	4.14	6.90	24.18	16.30
1990	3.02	6.64	7.57	13.79	7.44	13.66	4.75	6.97	26.49	18.36
1995	2.21	7.54	6.87	11.86	5.05	11.79	3.86	7.58	26.64	19.76
2000	2.62	9.34	10.56	14.96	9.66	14.93	5.88	9.57	24.73	19.59
2005	3.56	13.23	16.66	21.29	13.55	21.20	9.20	13.46	25.98	22.31
2006	3.73	16.02	19.09	24.79	21.79	24.75	10.60	16.28	27.54	24.38
2007	3.89	16.78	20.56	27.61	23.88	27.58	11.71	17.11	28.32	25.18
2008	—	17.15	25.51	32.46	29.61	32.44	14.42	18.57	30.09	26.64
2009	—	17.33	17.88	28.54	24.71	28.50	10.83	18.46	31.44	27.94
2010	—	15.61	22.81	31.24	26.65	31.21	12.78	17.14	32.14	27.85
2011	—	14.85	28.33	33.58	32.11	33.56	15.36	17.04	32.48	28.03
2012	—	15.43	29.66	30.88	33.65	30.87	17.11	16.69	33.10	28.80
2013	—	13.57	29.16	30.41	33.08	30.40	16.76	15.11	34.33	28.77
2014	—	16.66	28.38	35.51	32.78	35.49	16.34	18.63	34.88	30.64
2015	—	16.32	19.91	26.93	16.91	26.92	11.26	17.02	35.55	30.61
2016	—	14.67	16.59	25.75	13.48	25.73	9.62	15.57	35.62	30.26
2017	—	15.09	18.94	29.83	16.86	29.81	10.76	16.41	36.45	31.38
2018	—	14.76	22.09	30.96	24.35	30.96	11.90	16.51	37.42	R 31.81
2019	—	13.05	21.28	27.23	22.74	27.23	11.46	14.51	36.44	29.82
2020	—	12.75	17.47	24.00	14.77	23.97	9.47	R 13.80	35.97	R 29.95
2021	—	15.00	20.87	31.02	23.32	31.00	11.37	R 16.59	36.75	R 31.22
2022	—	17.25	32.24	34.33	38.50	34.33	R 17.58	R 18.89	38.15	R 32.81
2023	—	18.90	29.51	31.88	32.89	31.88	16.07	20.06	41.09	35.08
	Expenditures in million dollars									
1970	—	35.6	0.7	7.5	1.1	9.3	0.3	45.2	103.3	148.4
1975	—	58.2	3.6	10.3	2.0	15.9	0.6	74.6	284.3	358.9
1980	—	119.6	0.1	19.0	—	19.1	3.7	142.5	601.2	743.6
1985	(s)	200.5	0.3	33.6	0.2	34.0	7.2	241.7	1,010.5	1,252.2
1990	(s)	207.8	0.4	36.5	(s)	36.9	16.4	261.1	1,390.1	1,651.3
1995	(s)	210.4	0.2	39.4	0.1	39.7	13.4	263.5	1,639.5	1,903.1
2000	(s)	327.6	0.2	64.0	0.1	64.4	23.6	415.5	2,096.1	2,511.6
2005	(s)	484.3	0.3	63.0	0.3	63.6	32.3	580.2	2,707.4	3,287.6
2006	(s)	588.4	0.4	79.6	0.2	80.2	33.0	701.6	3,041.7	3,743.3
2007	(s)	659.5	0.3	83.0	0.1	83.4	40.3	783.2	3,327.6	4,110.8
2008	—	676.8	0.3	167.9	(s)	168.2	55.5	900.5	3,412.3	4,312.8
2009	—	613.0	0.3	139.3	(s)	139.6	13.1	765.7	3,524.1	4,289.8
2010	—	600.1	0.4	142.9	(s)	143.3	16.5	759.9	3,558.2	4,318.1
2011	—	580.4	0.5	178.2	(s)	178.7	19.3	778.4	3,666.2	4,444.5
2012	—	550.8	0.7	96.3	(s)	96.9	17.9	665.7	3,718.4	4,384.1
2013	—	552.5	0.3	120.6	(s)	121.0	22.9	696.4	3,878.0	4,574.4
2014	—	557.2	0.3	145.0	(s)	145.4	22.6	725.3	3,849.0	4,574.3
2015	—	588.2	0.1	94.5	(s)	94.6	18.3	701.0	4,023.3	4,724.3
2016	—	536.6	0.1	103.4	(s)	103.5	12.9	653.0	4,094.4	4,747.4
2017	—	517.9	0.1	117.4	(s)	117.5	13.7	R 649.2	4,259.3	4,908.4
2018	—	539.2	0.1	154.4	(s)	154.5	21.4	R 715.1	4,425.2	R 5,140.3
2019	—	566.5	(s)	151.0	0.1	151.1	R 26.1	R 743.6	4,317.1	R 5,060.7
2020	—	543.8	0.4	120.7	(s)	121.1	R 14.4	R 679.3	4,751.0	R 5,430.4
2021	—	618.1	0.2	158.3	(s)	158.5	R 17.8	R 794.4	4,655.9	R 5,450.3
2022	—	750.9	0.4	164.1	(s)	164.5	R 34.7	R 950.2	4,994.8	R 5,944.9
2023	—	876.1	0.4	162.0	(s)	162.4	27.0	1,065.5	5,466.1	6,531.6

[a] Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2023, Arizona

Year	Primary energy										Electricity [j]	Total energy [g,h,i]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f,g]	Total [g,h,i]		
	Prices in dollars per million Btu											
1970	—	0.60	1.12	1.03	0.77	2.80	0.63	1.46	0.72	0.70	5.57	2.50
1975	—	1.10	2.62	2.58	2.35	4.62	2.08	2.93	1.43	1.33	10.03	4.67
1980	—	3.00	6.94	5.47	—	9.68	—	7.40	3.66	3.45	16.68	9.97
1985	1.80	5.33	5.94	9.49	11.18	9.06	4.13	7.29	4.14	5.61	22.33	15.21
1990	1.97	4.64	5.63	8.95	7.44	9.22	—	7.20	4.75	5.00	23.08	16.09
1995	2.03	5.06	5.06	10.13	5.05	9.66	—	6.94	3.86	5.22	22.58	16.61
2000	1.88	6.62	7.80	13.07	9.66	12.20	—	9.02	5.70	7.01	20.54	16.15
2005	2.18	9.63	14.62	17.56	13.55	18.74	—	15.52	8.72	10.22	21.68	18.43
2006	2.19	11.89	16.88	20.17	21.79	20.70	—	17.83	9.82	12.43	23.50	20.42
2007	2.76	12.52	18.04	21.90	23.88	22.22	—	18.92	10.86	13.27	24.23	21.24
2008	—	12.68	24.08	25.51	29.61	25.89	—	24.39	13.49	15.13	26.17	22.92
2009	—	11.93	14.43	19.54	24.71	18.74	—	15.48	9.05	12.49	27.41	23.20
2010	—	10.54	18.57	21.20	26.65	22.50	—	19.25	10.24	12.40	27.76	23.21
2011	—	9.86	25.15	26.07	32.11	27.70	—	25.48	11.58	13.14	27.83	23.50
2012	—	9.16	25.90	19.20	33.65	29.11	—	25.05	13.33	12.49	27.93	23.49
2013	—	8.54	25.04	20.07	33.08	28.00	—	24.36	16.76	11.58	28.86	23.85
2014	—	10.02	23.52	20.74	32.78	27.09	—	R 23.01	16.34	12.64	29.70	24.86
2015	—	10.08	14.86	13.00	16.91	22.25	—	18.62	11.26	13.04	30.45	24.72
2016	—	8.48	12.56	13.16	13.48	19.36	—	16.38	9.62	10.98	30.52	23.86
2017	—	8.58	15.02	16.62	16.86	21.58	—	R 18.85	10.76	12.04	30.76	R 24.62
2018	—	8.36	18.56	18.08	24.35	24.72	—	22.01	11.90	12.85	31.18	25.16
2019	—	7.07	17.84	14.39	22.74	25.09	—	21.17	11.46	11.56	30.03	23.66
2020	—	6.73	12.56	13.60	14.77	21.34	—	17.87	9.47	10.43	29.63	23.29
2021	—	8.39	18.99	20.90	23.32	27.85	—	R 23.91	11.37	13.79	30.28	24.64
2022	—	10.47	28.82	22.17	38.50	37.10	—	31.97	R 17.58	17.84	31.66	26.91
2023	—	11.84	24.33	17.92	32.89	33.92	—	27.89	16.07	17.42	34.54	28.67
	Expenditures in million dollars											
1970	—	14.3	1.4	0.9	0.1	2.2	0.1	4.7	(s)	19.1	89.1	108.2
1975	—	37.8	7.4	1.5	0.2	4.3	1.1	14.5	(s)	52.3	245.1	297.5
1980	—	86.2	11.3	3.9	—	9.1	—	24.4	0.1	110.7	519.3	630.0
1985	(s)	141.3	16.0	9.9	0.1	6.7	(s)	32.7	0.2	174.2	936.7	1,110.9
1990	(s)	136.0	14.9	7.6	0.1	12.4	—	35.0	1.8	172.8	1,264.5	1,437.3
1995	0.2	148.2	10.4	10.8	(s)	1.8	—	23.0	1.8	173.2	1,429.9	1,603.1
2000	(s)	215.0	39.4	17.9	0.1	2.3	—	59.7	4.0	278.7	1,703.7	1,982.3
2005	0.1	314.1	40.2	15.4	0.1	3.9	—	59.7	5.3	379.1	2,031.8	2,410.9
2006	(s)	397.1	44.9	16.0	0.3	4.6	—	65.8	5.6	468.6	2,294.9	2,763.5
2007	(s)	419.8	66.8	17.8	0.3	5.1	—	90.1	6.6	516.5	2,519.4	3,035.9
2008	—	423.0	170.6	41.9	0.1	6.0	—	218.5	8.6	650.1	2,693.2	3,343.3
2009	—	391.2	72.4	16.2	0.1	10.7	—	99.4	1.9	492.5	2,748.0	3,240.4
2010	—	342.5	128.7	25.1	0.1	16.6	—	170.5	2.2	515.2	2,741.7	3,256.9
2011	—	326.0	169.2	37.7	0.1	17.7	—	224.7	2.6	553.2	2,802.8	3,356.1
2012	—	294.8	171.1	25.9	(s)	16.1	—	213.1	2.5	510.4	2,829.6	3,339.9
2013	—	288.1	R 147.0	29.6	(s)	17.8	—	R 194.5	2.8	R 485.4	2,958.0	R 3,443.3
2014	—	314.9	R 139.2	36.2	(s)	6.0	—	R 181.4	R 2.7	R 499.0	2,967.7	R 3,466.8
2015	—	321.5	R 93.5	21.3	(s)	201.3	—	R 316.1	R 2.4	640.1	3,042.9	R 3,682.9
2016	—	300.3	R 63.0	31.9	(s)	175.1	—	R 270.0	R 2.0	R 572.2	3,078.2	R 3,650.4
2017	—	280.0	R 75.7	41.2	(s)	196.8	—	R 313.7	R 2.2	R 595.8	3,115.3	R 3,711.1
2018	—	276.4	R 84.3	43.7	(s)	229.1	—	R 357.1	R 2.8	R 636.4	3,158.3	R 3,794.7
2019	—	252.9	R 70.5	49.7	(s)	233.8	—	R 354.0	R 3.3	R 610.1	3,013.7	R 3,623.8
2020	—	218.4	R 42.9	46.0	(s)	200.2	—	R 289.2	R 2.9	R 510.4	2,944.3	R 3,454.7
2021	—	288.9	R 101.9	75.5	(s)	263.7	—	R 441.2	3.4	R 733.5	3,098.8	R 3,832.2
2022	—	385.2	R 172.6	72.9	(s)	368.2	—	R 613.7	R 5.3	R 1,004.2	3,403.6	R 4,407.8
2023	—	446.8	159.7	65.2	(s)	335.9	—	560.9	4.9	1,012.6	3,844.8	4,857.4

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[g] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[j] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: Expenditure totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2023, Arizona

Year	Primary energy												Electricity [i]	Total energy [f,g,h]
	Coal			Natural gas [a]	Petroleum						Biomass	Total [f,g,h]		
	Coking coal	Steam coal	Total		Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e,f]			
	Prices in dollars per million Btu													
1970	—	0.63	0.63	0.41	0.72	1.09	2.80	0.36	0.72	0.86	1.46	0.58	3.56	1.00
1975	—	0.98	0.98	0.72	2.19	2.81	4.62	1.87	2.29	2.39	1.46	1.42	7.16	2.54
1980	—	1.58	1.58	2.57	5.15	5.96	9.68	3.95	4.77	5.20	1.47	3.55	11.39	5.28
1985	—	1.80	1.80	4.25	6.20	10.65	9.06	4.13	5.83	6.40	1.47	3.91	15.05	6.57
1990	—	1.97	1.97	3.59	5.69	9.97	9.22	3.18	4.42	5.50	1.05	4.21	16.36	8.03
1995	—	2.03	2.03	3.67	5.39	10.56	9.66	2.78	4.90	5.59	1.27	4.35	15.42	7.70
2000	—	1.88	1.88	4.74	7.82	12.50	12.20	4.44	4.90	6.59	1.23	5.31	15.45	8.47
2005	—	2.18	2.18	8.34	15.21	20.28	18.74	7.46	6.31	11.23	1.66	9.28	17.14	11.46
2006	—	2.19	2.19	9.72	17.13	22.69	20.70	8.80	7.49	13.05	1.73	10.59	16.68	12.40
2007	—	2.76	2.76	10.23	18.01	26.08	22.22	10.04	8.07	13.78	1.73	11.26	17.72	13.22
2008	—	2.80	2.80	10.20	24.15	31.26	25.89	—	9.11	18.79	1.73	14.94	19.27	16.25
2009	—	2.60	2.60	8.04	14.46	24.69	18.74	—	14.55	15.13	1.73	12.13	19.50	14.49
2010	—	2.73	2.73	7.42	18.73	22.87	22.50	—	R 16.98	R 18.49	1.73	R 14.04	19.44	R 15.69
2011	—	2.75	2.75	6.77	25.06	28.57	27.70	17.00	R 19.10	R 23.18	2.41	R 17.17	19.21	R 17.80
2012	—	3.14	3.14	5.66	26.13	19.90	29.11	—	R 20.36	R 24.19	2.41	R 17.49	19.14	R 18.01
2013	—	2.87	2.87	6.13	25.40	21.02	28.00	—	R 20.11	R 23.76	2.41	R 18.03	19.51	R 18.52
2014	—	2.94	2.94	7.28	23.95	21.89	27.09	—	R 20.21	R 22.87	3.08	R 17.31	18.94	R 17.92
2015	—	2.93	2.93	6.49	15.03	12.11	22.25	—	R 17.15	R 16.80	3.08	R 13.21	18.36	R 15.17
2016	—	2.87	2.87	5.56	12.97	12.32	19.36	—	R 13.76	R 14.12	3.08	R 11.56	17.78	R 13.86
2017	—	2.86	2.86	6.19	15.45	15.73	21.58	—	14.32	15.95	3.10	12.93	18.91	14.98
2018	—	2.88	2.88	5.75	18.72	17.18	24.72	—	16.73	18.87	3.04	14.55	19.19	16.20
2019	—	3.09	3.09	3.99	17.57	13.46	25.09	—	R 17.70	R 18.59	3.04	14.24	18.40	R 15.68
2020	—	3.00	3.00	3.84	12.26	12.66	21.34	—	R 16.32	R 15.02	3.04	R 11.62	17.79	R 13.79
2021	—	3.05	3.05	6.20	18.50	19.90	27.85	—	R 17.99	R 19.65	3.04	R 15.35	19.89	R 16.92
2022	—	3.57	3.57	7.25	28.76	21.11	37.10	—	R 24.64	R 28.20	R 3.01	R 21.90	23.05	R 22.30
2023	—	4.64	4.64	6.75	24.48	16.82	33.92	—	21.77	24.84	3.01	19.20	23.76	20.80
	Expenditures in million dollars													
1970	—	0.1	0.1	25.2	5.8	1.0	6.7	0.1	18.5	32.1	0.4	57.8	57.8	115.6
1975	—	2.6	2.6	38.5	39.6	4.3	10.7	1.2	39.8	95.6	0.6	137.3	167.7	305.0
1980	—	20.6	20.6	101.5	107.1	15.5	15.7	3.8	75.0	217.1	3.2	342.5	311.1	653.7
1985	—	69.7	69.7	73.4	65.0	18.4	19.2	0.8	108.0	211.4	3.8	358.3	434.2	792.5
1990	—	26.1	26.1	61.0	91.3	13.6	24.4	0.2	77.2	206.6	2.7	296.4	526.5	822.9
1995	—	26.6	26.6	105.4	112.6	27.2	20.6	1.2	112.6	274.2	4.6	410.7	630.9	1,041.6
2000	—	30.0	30.0	101.6	192.1	7.1	21.5	0.6	125.3	346.7	0.2	478.6	631.5	1,110.1
2005	—	34.7	34.7	144.8	435.4	13.4	102.0	1.0	206.2	758.0	0.5	937.9	665.3	1,603.2
2006	—	35.7	35.7	182.6	451.5	22.6	131.0	1.0	222.1	828.1	0.5	1,047.0	697.5	1,744.5
2007	—	42.2	42.2	203.0	448.0	34.7	122.8	1.4	236.9	843.8	0.6	1,089.6	742.6	1,832.2
2008	—	36.2	36.2	211.3	843.5	50.7	138.7	—	230.6	1,263.4	0.6	1,511.5	846.0	2,357.5
2009	—	22.7	22.7	147.0	384.8	30.2	95.1	—	303.1	813.2	0.5	983.4	745.4	1,728.8
2010	—	29.4	29.4	145.1	540.8	47.3	99.4	—	R 379.0	R 1,066.6	0.8	R 1,241.9	758.9	R 2,000.8
2011	—	27.5	27.5	149.0	825.7	61.1	122.8	0.7	R 436.2	R 1,446.6	0.3	R 1,623.5	809.7	R 2,433.1
2012	—	27.3	27.3	131.0	853.5	38.7	137.5	—	R 415.5	R 1,445.1	0.3	R 1,603.7	813.1	R 2,416.8
2013	—	12.4	12.4	139.3	839.0	40.5	137.9	—	R 383.3	R 1,400.7	0.3	R 1,552.8	833.4	R 2,386.1
2014	—	15.3	15.3	169.1	717.9	38.8	128.5	—	R 385.3	R 1,270.5	0.3	R 1,455.3	947.7	R 2,402.9
2015	—	15.9	15.9	138.3	382.7	23.2	191.6	—	R 340.8	R 938.2	0.3	R 1,092.8	932.7	R 2,025.5
2016	—	11.7	11.7	114.4	396.2	20.3	170.2	—	R 295.0	R 881.7	0.3	R 1,008.2	908.7	R 1,916.9
2017	—	15.1	15.1	124.5	512.1	24.5	190.5	—	291.7	1,018.8	1.0	1,159.5	884.2	2,043.7
2018	—	18.8	18.8	114.6	520.8	25.6	219.5	—	351.6	1,117.6	1.2	1,252.2	916.3	2,168.4
2019	—	20.2	20.2	76.7	526.0	18.6	223.5	—	R 406.9	R 1,175.0	1.2	R 1,273.1	865.2	R 2,138.4
2020	—	19.5	19.5	75.2	372.6	15.2	197.8	—	R 351.6	R 937.0	1.2	R 1,032.9	856.6	R 1,889.5
2021	—	19.3	19.3	127.8	539.4	25.0	247.4	—	R 429.1	R 1,240.9	1.2	R 1,389.3	956.2	R 2,345.5
2022	—	21.4	21.4	145.8	847.8	53.8	361.9	—	R 588.5	R 1,851.9	R 1.4	R 2,020.5	1,125.5	R 3,146.1
2023	—	25.3	25.3	144.4	704.4	20.4	336.3	—	497.4	1,558.5	1.4	1,729.6	1,159.1	2,888.8

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[i] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET6. Transportation sector energy price and expenditure estimates, selected years, 1970-2023, Arizona

Year	Primary energy											Electricity [g]	Total energy [f]
			Petroleum										
	Coal	Natural gas[a]	Aviation gasoline	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Lubricants	Motor gasoline [e]	Residual fuel oil	Total	Total [f]		
	Prices in dollars per million Btu												
1970	0.63	—	2.17	1.26	1.03	0.76	5.08	2.80	—	2.20	2.20	—	2.20
1975	0.98	—	3.45	2.74	2.58	2.12	7.48	4.62	—	3.93	3.93	—	3.93
1980	—	—	9.02	7.34	5.47	6.59	14.36	9.68	—	8.79	8.79	—	8.79
1985	—	—	9.99	7.15	10.89	6.20	18.18	9.06	—	8.41	8.41	—	8.41
1990	—	—	9.32	8.79	10.94	6.04	20.61	9.22	—	8.73	8.73	—	8.73
1995	—	3.63	8.36	8.73	12.94	4.34	21.75	9.66	—	8.91	8.91	—	8.91
2000	—	5.77	10.87	11.59	15.82	7.08	23.20	12.20	—	11.45	11.44	—	11.44
2005	—	7.73	18.56	18.43	19.23	13.14	35.22	18.74	—	18.23	18.19	—	18.19
2006	—	9.63	22.31	19.93	21.03	15.27	43.88	20.70	—	20.14	20.10	—	20.10
2007	—	9.17	23.70	20.61	23.02	16.24	47.16	22.22	—	21.50	21.45	—	21.45
2008	—	10.72	27.23	26.35	27.82	21.37	55.12	25.89	—	25.75	25.68	—	25.68
2009	—	14.69	20.32	16.83	21.01	12.50	56.07	18.74	—	18.06	18.04	—	18.04
2010	—	12.15	25.19	20.84	24.09	16.63	58.80	22.50	—	21.50	21.47	—	21.47
2011	—	7.63	31.64	26.44	28.73	22.84	69.54	27.70	—	26.94	26.87	—	26.87
2012	—	12.92	33.04	27.74	20.62	23.28	72.11	29.11	—	28.17	28.11	—	28.11
2013	—	R 13.39	32.71	26.93	21.78	22.56	69.42	28.00	—	27.19	R 27.14	—	R 27.14
2014	—	R 13.30	33.16	26.15	22.68	21.30	69.44	27.09	—	26.26	R 26.21	—	R 26.21
2015	—	R 13.05	24.86	18.72	13.45	12.19	67.28	22.25	—	20.25	R 20.22	27.54	R 20.22
2016	—	R 12.30	21.62	16.58	13.64	10.27	65.78	19.36	—	17.71	R 17.68	29.10	R 17.68
2017	—	R 12.37	24.13	19.27	18.15	12.47	67.25	21.58	—	19.96	19.93	28.28	19.93
2018	—	R 12.60	27.04	22.81	19.39	15.93	72.37	24.72	—	23.28	R 23.25	29.37	R 23.25
2019	—	R 12.74	25.57	21.98	16.83	14.76	74.92	25.09	—	23.12	R 23.09	28.38	R 23.09
2020	—	R 12.26	22.34	18.55	15.69	9.75	75.34	21.34	—	19.55	R 19.52	27.50	R 19.52
2021	—	R 12.46	28.86	23.67	23.82	14.81	81.25	27.85	—	25.34	R 25.29	27.35	R 25.29
2022	—	R 13.64	36.02	35.39	23.09	25.80	97.37	37.10	—	R 35.41	R 35.32	28.19	R 35.32
2023	—	15.07	32.62	31.12	17.99	20.86	105.48	33.92	—	31.62	31.56	29.35	31.56
	Expenditures in million dollars												
1970	(s)	—	4.7	23.4	0.2	27.5	7.1	308.1	—	370.9	370.9	—	370.9
1975	(s)	—	6.2	75.8	0.5	81.7	12.1	656.9	—	833.4	833.4	—	833.4
1980	—	—	12.8	277.0	1.6	289.7	30.2	1,530.5	—	2,141.9	2,141.9	—	2,141.9
1985	—	—	9.3	317.5	3.8	244.4	34.8	1,694.3	—	2,304.1	2,304.1	—	2,304.1
1990	—	—	9.1	406.2	2.3	285.9	44.4	1,867.1	—	2,615.1	2,615.1	—	2,615.1
1995	—	1.0	5.9	562.4	2.5	186.7	44.7	2,348.5	—	3,150.7	3,151.7	—	3,151.7
2000	—	4.6	11.2	976.4	1.4	418.9	50.9	3,557.4	—	5,016.2	5,020.8	—	5,020.8
2005	—	14.9	17.6	2,192.9	15.0	597.4	65.2	6,461.1	—	9,349.2	9,364.1	—	9,364.1
2006	—	19.5	19.9	2,509.8	18.8	668.3	79.2	7,301.7	—	10,597.8	10,617.3	—	10,617.3
2007	—	18.9	17.4	2,539.6	16.0	608.7	87.9	7,870.0	—	11,139.6	11,158.5	—	11,158.5
2008	—	21.9	21.5	2,844.2	28.7	819.5	95.4	8,549.8	—	12,359.1	12,381.0	—	12,381.0
2009	—	31.4	13.0	R 1,788.9	16.3	332.0	87.2	5,943.0	—	R 8,180.5	R 8,211.8	—	R 8,211.8
2010	—	24.9	23.7	R 2,243.5	3.3	1,203.3	167.5	7,082.3	—	R 10,723.7	R 10,748.6	—	R 10,748.6
2011	—	13.2	32.7	R 2,926.2	4.0	1,697.5	191.3	8,564.7	—	R 13,416.4	R 13,429.7	—	R 13,429.7
2012	—	22.5	27.8	R 2,940.4	3.0	1,693.7	179.8	8,910.7	—	R 13,755.3	R 13,777.9	—	R 13,777.9
2013	—	R 23.8	22.9	R 2,869.9	4.2	1,658.0	181.8	8,758.4	—	R 13,495.2	R 13,519.0	—	R 13,519.0
2014	—	R 29.9	34.4	R 2,784.3	6.8	1,595.1	186.1	8,547.8	—	R 13,154.5	R 13,184.4	—	R 13,184.4
2015	—	R 30.1	20.9	R 2,052.4	6.6	920.7	199.7	7,107.0	—	R 10,307.4	R 10,337.4	0.6	R 10,338.0
2016	—	R 31.7	16.3	R 1,873.6	7.9	773.5	190.4	6,406.1	—	R 9,267.8	R 9,299.5	0.7	R 9,300.2
2017	—	R 20.3	20.3	R 2,184.2	8.9	981.6	179.0	7,177.4	—	R 10,551.4	R 10,571.6	0.7	R 10,572.4
2018	—	R 21.7	26.1	R 2,740.1	8.0	R 1,213.4	188.9	8,392.7	—	R 12,569.2	R 12,590.9	0.8	R 12,591.7
2019	—	R 21.3	26.7	R 2,789.6	6.5	R 1,168.6	R 192.6	8,583.8	—	R 12,767.7	R 12,789.0	1.1	R 12,790.1
2020	—	R 25.5	20.6	R 2,363.6	5.0	R 543.3	R 176.6	6,460.2	—	R 9,569.3	R 9,594.8	1.1	R 9,595.9
2021	—	R 26.7	24.4	R 3,217.7	13.3	R 1,068.6	R 208.8	9,304.1	—	R 13,836.9	R 13,863.6	1.0	R 13,864.6
2022	—	R 29.8	31.6	R 4,269.6	7.3	R 1,926.0	R 249.9	12,325.9	—	R 18,810.3	R 18,840.1	1.0	R 18,841.1
2023	—	28.7	27.1	3,673.3	4.9	1,650.8	197.2	11,467.2	—	17,020.6	17,049.3	1.0	17,050.3

[a] Transportation use of natural gas as vehicle fuel only.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET7. Electric power sector price and expenditure estimates, selected years, 1970-2023, Arizona

Year	Coal	Natural gas [a]	Petroleum: Distillate fuel oil	Petroleum: Petroleum coke	Petroleum: Residual fuel oil	Petroleum: Total	Nuclear fuel	Biomass: Wood and waste [b]	Electricity imports [c]	Total energy [d]
	Prices in dollars per million Btu									
1970	0.21	0.35	0.68	—	0.60	0.61	—	—	—	0.33
1975	0.21	0.73	2.27	—	2.08	2.12	—	—	3.89	0.84
1980	0.98	2.41	6.48	—	3.92	4.57	—	—	—	1.35
1985	1.31	3.74	6.22	—	3.71	5.15	0.65	—	—	1.61
1990	1.43	2.37	5.11	—	3.48	5.03	0.72	—	—	1.21
1995	1.39	1.73	5.10	—	2.99	4.87	0.49	—	6.21	1.02
2000	1.24	4.78	8.60	—	5.66	8.24	0.44	—	16.78	1.37
2005	1.40	8.04	14.03	—	8.26	13.98	0.55	2.28	16.53	2.79
2006	1.42	6.35	16.31	—	7.98	16.27	0.63	2.18	17.32	2.58
2007	1.57	6.69	16.71	—	—	16.71	0.57	3.27	18.25	2.78
2008	1.73	8.37	20.50	—	—	20.50	0.56	3.15	18.28	3.26
2009	1.81	4.07	14.73	—	—	14.73	0.59	2.20	12.10	2.04
2010	1.79	4.77	18.23	—	—	18.23	0.69	2.40	13.31	2.13
2011	1.98	5.52	23.18	—	—	23.18	0.82	2.44	11.53	2.29
2012	2.07	3.44	23.41	—	—	23.41	0.89	2.21	9.51	2.00
2013	2.07	4.49	24.29	—	—	24.29	0.92	2.26	11.49	2.26
2014	2.10	5.15	22.60	—	—	22.60	0.82	2.73	13.31	2.33
2015	2.07	3.30	13.67	—	—	13.67	0.77	2.62	10.54	1.95
2016	2.13	3.17	11.31	—	—	11.31	0.83	2.54	8.74	1.96
2017	2.23	3.61	13.89	—	—	13.89	0.74	2.40	9.18	2.04
2018	2.43	2.96	17.24	—	—	17.24	0.68	2.22	10.74	2.01
2019	2.56	2.14	16.89	—	—	16.89	0.73	2.33	—	1.77
2020	2.14	2.42	12.96	—	—	12.96	0.70	1.80	—	1.73
2021	2.31	4.78	17.38	—	—	17.38	0.65	2.39	—	2.74
2022	2.84	8.42	27.87	—	—	27.87	0.66	2.69	—	R 4.31
2023	3.04	4.30	23.97	—	—	23.97	0.64	2.93	—	2.74
	Expenditures in million dollars									
1970	1.8	21.7	(s)	—	0.1	0.1	—	—	—	23.5
1975	18.5	13.9	21.8	—	75.4	97.2	—	—	0.2	129.8
1980	226.3	126.7	16.5	—	29.2	45.7	—	—	—	398.7
1985	396.0	165.5	7.7	—	3.4	11.0	7.8	—	—	580.3
1990	472.1	59.3	6.0	—	0.2	6.2	156.7	—	—	694.2
1995	459.6	39.2	3.2	—	0.2	3.4	138.7	—	7.1	647.9
2000	516.1	465.7	17.8	—	1.6	19.5	139.7	—	2.7	1,143.6
2005	575.7	1,792.1	6.4	—	(s)	6.4	147.9	1.5	5.8	2,529.3
2006	591.1	1,608.0	12.4	—	(s)	12.5	156.8	1.1	7.5	2,377.0
2007	663.3	1,916.3	8.2	—	—	8.2	158.9	0.7	13.9	2,761.3
2008	771.8	2,440.8	10.5	—	—	10.5	170.2	5.4	5.5	3,404.1
2009	731.8	1,089.5	8.8	—	—	8.8	190.0	3.8	5.1	2,029.0
2010	799.7	1,086.2	12.4	—	—	12.4	225.1	4.9	11.3	2,139.5
2011	889.7	1,015.8	12.9	—	—	12.9	267.7	5.8	19.6	2,211.4
2012	852.5	803.1	10.2	—	—	10.2	296.2	6.2	2.7	1,971.0
2013	934.4	1,025.7	11.3	—	—	11.3	302.7	5.5	1.3	2,281.0
2014	929.3	1,090.2	14.1	—	—	14.1	276.7	9.9	2.6	2,322.9
2015	786.0	851.9	7.3	—	—	7.3	262.5	10.3	0.7	1,918.6
2016	681.1	839.3	6.4	—	—	6.4	280.1	9.8	4.0	1,820.6
2017	734.9	839.8	8.5	—	—	8.5	250.9	7.4	1.9	1,843.4
2018	790.4	876.7	9.4	—	—	9.4	222.3	7.8	2.6	1,909.1
2019	642.5	787.5	12.1	—	—	12.1	243.3	8.9	—	1,694.3
2020	322.0	966.0	5.9	—	—	5.9	232.2	6.4	—	1,532.5
2021	355.3	1,764.5	8.6	—	—	8.6	215.6	7.4	—	2,351.4
2022	420.9	2,939.2	10.0	—	—	10.0	220.3	8.2	—	3,598.6
2023	402.9	1,770.9	8.6	—	—	8.6	211.7	10.3	—	2,404.5

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[c] Electricity imported from Canada and Mexico.
[d] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET1. Primary energy, electricity, and total energy price and expenditure estimates, selected years, 1970-2023, Arkansas

	Primary energy														Electric power sector [i,k,l]	Electricity [m]	Total energy [h,i,j]
	Coal			Natural gas [a]	Petroleum							Nuclear fuel	Biomass				
	Coking coal	Steam coal	Total		Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total		Wood and waste [g,h]	Total [h,i,j,k]			
Year	Prices in dollars per million Btu																
1970	—	—	—	0.38	0.98	1.60	0.72	2.74	0.43	1.31	1.98	—	1.20	1.03	0.26	4.78	1.51
1975	—	1.22	1.22	0.79	2.39	3.13	2.01	4.60	1.72	2.72	3.33	0.24	1.43	2.09	0.72	7.80	2.96
1980	—	1.43	1.43	2.27	6.04	7.03	6.34	9.93	3.23	5.63	7.60	0.54	1.60	4.30	1.46	12.77	6.58
1985	—	1.60	1.60	3.83	6.37	8.78	5.96	8.80	4.01	8.80	7.90	0.77	1.73	4.11	1.37	18.24	8.04
1990	—	1.62	1.62	3.27	7.37	10.44	5.90	8.86	2.55	12.26	8.53	0.73	1.03	4.01	1.32	19.78	8.20
1995	—	1.62	1.62	3.07	6.64	7.73	4.28	8.77	2.23	9.80	7.96	0.52	1.23	3.78	1.28	18.62	7.61
2000	—	1.43	1.43	5.45	9.50	10.80	6.61	11.38	3.98	11.58	10.35	0.52	1.48	5.23	1.42	17.04	9.47
2005	—	1.50	1.50	9.94	15.93	17.10	13.09	17.49	6.80	19.83	16.77	0.52	2.91	8.41	1.98	18.63	14.46
2006	—	1.51	1.51	9.06	17.93	18.97	15.06	19.73	8.09	17.22	18.76	0.53	2.86	8.72	1.91	20.67	15.78
2007	—	1.65	1.65	9.27	19.69	20.69	15.73	22.12	8.65	19.43	20.85	0.57	2.76	9.33	1.98	20.57	16.68
2008	—	1.78	1.78	10.72	26.10	25.63	22.56	25.56	9.43	33.81	25.90	0.54	3.23	11.49	2.36	22.47	19.96
2009	—	1.73	1.73	7.81	16.22	19.75	12.42	17.84	6.62	22.90	17.39	0.66	3.13	8.00	1.77	22.39	15.64
2010	—	1.74	1.74	7.23	20.31	21.57	16.13	21.97	13.66	R 23.84	R 21.26	0.73	3.20	8.98	2.04	21.57	R 16.86
2011	—	1.93	1.93	7.36	26.44	24.41	22.45	27.86	17.35	R 25.31	R 26.93	0.77	3.36	R 10.69	2.35	22.02	19.59
2012	—	2.27	2.27	5.53	27.18	20.11	22.84	28.32	17.88	R 28.42	R 27.56	0.77	3.21	R 10.18	2.05	22.56	R 19.83
2013	—	2.41	2.41	6.63	26.79	20.65	21.93	27.48	18.47	R 28.07	R 26.92	0.61	3.35	10.47	2.43	23.29	R 19.29
2014	—	2.42	2.42	R 7.48	25.74	22.66	20.17	26.20	16.12	R 26.64	25.80	0.83	3.86	10.20	2.53	23.19	18.86
2015	—	2.28	2.28	6.19	17.53	15.44	11.79	18.38	10.33	R 26.14	R 18.19	0.82	R 3.39	8.15	2.08	24.03	15.86
2016	—	2.19	2.19	5.18	14.99	14.45	9.53	16.50	7.36	R 18.60	R 15.92	0.67	3.22	7.10	2.02	23.85	14.62
2017	—	2.04	2.04	5.95	17.39	17.78	11.89	18.72	—	18.52	18.07	0.83	R 3.16	7.88	2.05	24.23	15.76
2018	—	1.99	1.99	5.86	20.77	19.14	15.50	20.64	—	22.65	20.65	0.81	R 3.03	8.33	2.07	22.83	16.45
2019	—	1.99	1.99	5.20	19.64	15.27	14.36	19.19	—	R 23.36	19.37	0.68	3.00	8.06	1.84	24.11	16.06
2020	—	1.91	1.91	5.30	15.67	14.53	9.29	15.69	9.87	R 21.29	15.86	0.59	R 2.50	7.27	1.58	24.43	R 14.79
2021	—	2.11	2.11	7.94	R 21.17	20.89	14.33	22.55	—	R 23.80	R 21.95	0.53	R 3.22	9.96	3.15	26.71	R 18.42
2022	—	2.36	2.36	R 9.48	R 32.76	23.57	25.98	29.34	—	R 31.66	R 30.52	0.50	R 3.90	R 13.00	R 3.48	29.08	R 23.84
2023	—	2.24	2.24	6.94	27.25	20.10	20.75	25.92	—	29.35	26.34	0.47	3.93	11.07	1.89	28.57	21.76
	Expenditures in million dollars																
1970	—	—	—	133.8	31.1	61.8	8.5	323.7	2.4	40.1	467.6	—	11.6	613.0	-29.3	217.4	801.1
1975	—	1.1	1.1	185.8	133.2	110.9	21.7	666.5	97.6	89.4	1,119.2	12.7	14.5	1,333.2	-82.2	480.4	1,731.5
1980	—	52.6	52.6	581.7	376.2	125.6	70.0	1,381.9	100.3	189.9	2,243.9	46.0	17.8	2,942.0	-286.3	1,149.8	3,805.5
1985	—	351.1	351.1	636.9	475.2	119.8	65.7	1,230.3	17.0	141.7	2,049.8	81.3	23.6	3,143.3	-449.9	1,440.1	4,133.4
1990	—	344.9	344.9	665.3	540.5	133.8	54.5	1,349.6	2.7	136.0	2,217.1	87.5	44.7	3,363.9	-475.3	1,789.8	4,678.4
1995	—	383.9	383.9	719.6	657.0	91.6	28.5	1,466.5	2.3	142.1	2,388.1	64.2	84.0	3,639.9	-493.1	2,102.9	5,249.6
2000	—	383.1	383.1	1,243.1	1,038.8	255.4	182.4	1,970.5	7.6	186.7	3,641.2	62.7	102.6	5,432.8	-592.9	2,348.6	7,188.4
2005	—	370.4	370.4	1,927.0	2,262.0	171.6	92.9	3,132.5	11.3	192.7	5,862.9	74.3	202.4	8,437.0	-861.6	2,840.7	10,416.1
2006	—	388.6	388.6	1,956.5	2,455.7	193.8	101.0	3,535.9	11.4	257.9	6,555.6	84.6	208.5	9,193.8	-919.0	3,175.7	11,450.5
2007	—	454.1	454.1	1,918.9	2,740.1	208.5	109.3	3,976.4	7.5	277.4	7,319.2	93.0	210.8	9,996.0	-979.1	3,183.3	12,200.2
2008	—	495.6	495.6	2,298.3	3,863.4	307.5	138.8	4,456.9	5.8	272.5	9,044.9	80.4	209.0	12,128.2	-1,147.4	3,407.0	14,387.8
2009	—	456.2	456.2	1,743.7	R 2,040.2	214.2	56.4	3,183.5	4.9	304.1	R 5,803.3	105.3	177.1	R 8,285.7	-889.2	3,170.8	R 10,567.2
2010	—	510.6	510.6	1,791.7	R 2,748.1	221.5	126.7	3,887.4	1.7	R 391.6	R 7,377.1	113.9	224.9	R 10,018.1	-1,106.2	3,393.3	R 12,305.2
2011	—	592.2	592.2	1,902.9	R 3,540.5	229.2	174.8	4,754.4	3.8	R 500.3	R 9,203.0	114.9	244.5	R 12,057.5	-1,317.1	3,446.6	R 14,187.1
2012	—	673.3	673.3	1,496.5	R 3,317.7	157.3	184.0	4,835.9	1.4	R 443.8	R 8,940.2	125.1	231.3	R 11,466.4	-1,202.4	3,456.4	R 13,720.5
2013	—	789.4	789.4	1,737.4	R 3,368.6	184.2	167.0	4,616.1	2.3	R 457.8	R 8,796.0	75.7	237.8	R 11,636.2	-1,322.1	3,686.7	R 14,000.8
2014	—	820.9	820.9	1,849.4	R 3,147.2	226.1	158.4	4,534.0	1.1	R 494.3	R 8,561.1	126.1	R 272.7	R 11,630.2	-1,420.8	3,703.5	R 13,913.0
2015	—	516.8	516.8	R 1,698.4	R 2,018.0	129.2	87.0	3,242.4	0.1	R 366.0	R 5,842.8	119.0	R 212.4	R 8,389.3	-1,006.2	3,789.4	R 11,172.5
2016	—	539.7	539.7	1,529.8	R 1,698.3	96.9	68.0	3,018.4	(s)	R 382.5	R 5,264.2	94.5	R 193.2	R 7,621.4	-1,062.9	3,738.6	R 10,297.2
2017	—	546.6	546.6	R 1,786.3	R 1,963.6	111.3	90.3	3,412.7	—	366.2	R 5,944.2	110.8	R 188.4	R 8,576.3	-1,088.2	3,791.0	R 11,279.1
2018	—	606.7	606.7	2,048.6	R 2,528.5	158.8	R 101.2	3,699.8	—	390.7	R 6,879.0	107.7	R 184.0	R 9,825.9	-1,228.5	3,845.6	R 12,443.1
2019	—	476.7	476.7	1,840.6	R 2,351.5	135.3	R 100.3	3,520.2	—	R 414.7	R 6,522.1	95.9	R 176.9	9,112.2	-998.5	3,939.1	12,052.8
2020	—	309.2	309.2	R 1,695.9	R 1,865.9	117.9	R 48.9	2,672.0	0.2	R 378.7	R 5,083.7	92.8	R 108.8	R 7,290.3	-721.2	3,802.2	R 10,371.4
2021	—	455.4	455.4	R 2,755.3	R 2,538.1	168.8	R 81.0	4,104.5	—	R 450.6	R 7,342.9	75.2	R 134.4	R 10,763.4	-1,601.0	4,417.4	R 13,579.7
2022	—	500.7	500.7	R 3,629.2	R 3,961.9	180.9	R 162.2	5,274.0	—	R 611.6	R 10,190.6	74.4	R 164.2	R 14,559.0	-1,929.1	4,837.3	R 17,467.2
2023	—	404.2	404.2	2,660.8	3,224.3	150.8	141.9	4,758.0	—	532.6	8,807.6	72.9	151.4	12,096.8	-1,003.0	4,720.4	15,814.2

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[l] Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
[m] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.
Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET2. Total end-use energy price and expenditure estimates, selected years, 1970-2023, Arkansas

Year	Primary energy											Electricity [k]	Total energy [h,i,j]
			Petroleum							Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g,h]	Total [h,i,j]		
	Prices in dollars per million Btu												
1970	—	0.44	0.98	1.60	0.72	2.74	0.44	1.31	2.01	1.20	1.20	4.78	1.51
1975	1.22	0.82	2.39	3.13	2.01	4.60	1.66	2.72	3.46	1.43	2.39	7.80	2.96
1980	1.89	2.30	6.07	7.03	6.34	9.93	3.04	5.63	7.92	1.60	5.44	12.77	6.58
1985	2.12	3.91	6.37	8.78	5.96	8.80	4.01	8.80	7.90	1.73	6.19	18.24	8.04
1990	1.99	3.60	7.40	10.44	5.90	8.86	2.54	12.26	8.55	1.03	6.02	19.78	8.20
1995	1.82	3.29	6.65	7.73	4.28	8.77	2.26	9.80	7.96	1.23	5.46	18.62	7.61
2000	1.71	5.65	9.51	10.80	6.61	11.38	3.65	11.58	10.39	1.48	7.79	17.04	9.47
2005	2.44	10.50	15.95	17.10	13.09	17.49	6.64	19.83	16.82	2.93	13.34	18.63	14.46
2006	2.70	10.51	17.93	18.97	15.06	19.73	8.09	17.22	18.80	2.87	14.47	20.67	15.78
2007	2.94	10.37	19.71	20.69	15.73	22.12	9.16	19.43	20.87	2.77	15.64	20.57	16.68
2008	3.40	11.51	26.12	25.63	22.56	25.56	13.11	33.81	25.92	3.24	19.29	22.47	19.96
2009	3.59	10.14	16.22	19.75	12.42	17.84	9.46	22.90	17.41	3.14	13.84	22.39	15.64
2010	2.90	8.69	20.32	21.57	16.13	21.97	11.49	R 23.84	R 21.27	3.21	R 15.57	21.57	R 16.86
2011	3.25	8.63	26.45	24.41	22.45	27.86	15.63	R 25.31	R 26.94	3.37	18.92	22.02	19.59
2012	3.49	7.83	27.19	20.11	22.84	28.32	16.91	R 28.42	R 27.56	3.23	R 19.05	22.56	R 19.83
2013	3.53	7.66	26.80	20.65	21.93	27.48	16.68	R 28.07	26.93	3.37	18.18	23.29	R 19.29
2014	3.35	7.92	25.75	22.66	20.17	26.20	16.03	R 26.64	R 25.80	R 3.90	R 17.66	23.19	18.86
2015	3.19	8.23	17.55	15.44	11.79	18.38	10.32	R 26.14	18.19	3.43	13.51	24.03	15.86
2016	2.96	7.04	15.00	14.45	9.53	16.50	7.36	R 18.60	R 15.93	3.27	R 11.98	23.85	14.62
2017	2.76	7.98	17.41	17.78	11.89	18.72	—	18.52	18.08	3.21	13.39	24.23	15.76
2018	3.10	7.92	20.78	19.14	15.50	20.64	—	22.65	20.66	R 3.07	14.62	22.83	16.45
2019	3.30	7.43	19.66	15.27	14.36	19.19	—	R 23.36	19.37	3.03	13.82	24.11	16.06
2020	3.76	7.59	15.69	14.53	9.29	15.69	—	R 21.29	15.87	R 2.54	R 12.04	24.43	R 14.79
2021	3.74	8.70	21.20	20.89	14.33	22.55	—	R 23.80	R 21.96	R 3.23	R 16.02	26.71	R 18.42
2022	4.36	R 12.10	R 32.80	23.57	25.98	29.34	—	R 31.66	R 30.53	R 3.92	R 22.30	29.08	R 23.84
2023	5.23	11.44	27.27	20.10	20.75	25.92	—	29.35	26.35	3.94	19.76	28.57	21.76
	Expenditures in million dollars												
1970	—	106.4	31.0	61.8	8.5	323.7	0.6	40.1	465.7	11.6	583.7	217.4	801.1
1975	1.1	166.1	132.4	110.9	21.7	666.5	48.6	89.4	1,069.4	14.5	1,251.1	480.4	1,731.5
1980	12.3	451.5	371.7	125.6	70.0	1,381.9	35.0	189.9	2,174.1	17.8	2,655.7	1,149.8	3,805.5
1985	17.0	603.0	474.8	119.8	65.7	1,230.3	16.8	141.7	2,049.2	23.6	2,693.3	1,440.1	4,133.4
1990	11.6	615.0	536.5	133.8	54.5	1,349.6	2.4	136.0	2,212.8	44.7	2,888.6	1,789.8	4,678.4
1995	14.1	662.9	654.7	91.6	28.5	1,466.5	2.1	142.1	2,385.7	84.0	3,146.7	2,102.9	5,249.6
2000	16.4	1,088.7	1,037.0	255.4	182.4	1,970.5	0.2	186.7	3,632.1	102.6	4,839.9	2,348.6	7,188.4
2005	22.7	1,506.2	2,257.8	171.6	92.9	3,132.5	1.4	192.7	5,848.8	197.6	7,575.3	2,840.7	10,416.1
2006	24.5	1,503.2	2,451.8	193.8	101.0	3,535.9	0.2	257.9	6,540.5	206.6	8,274.8	3,175.7	11,450.5
2007	28.9	1,471.2	2,734.7	208.5	109.3	3,976.4	4.0	277.4	7,310.3	206.5	9,016.9	3,183.3	12,200.2
2008	32.5	1,705.9	3,859.1	307.5	138.8	4,456.9	3.7	272.5	9,038.6	203.9	10,980.9	3,407.0	14,387.8
2009	26.6	1,399.0	R 2,034.3	214.2	56.4	3,183.5	2.4	304.1	R 5,794.9	175.9	R 7,396.4	3,170.8	R 10,567.2
2010	21.1	1,298.3	R 2,743.0	221.5	126.7	3,887.4	0.1	R 391.6	R 7,370.3	222.2	R 8,911.9	3,393.3	R 12,305.2
2011	18.1	1,289.9	R 3,530.3	229.2	174.8	4,754.4	2.2	R 500.3	R 9,191.2	241.2	R 10,740.4	3,446.6	R 14,187.1
2012	18.0	1,084.8	R 3,310.7	157.3	184.0	4,835.9	1.1	R 443.8	R 8,932.9	228.4	R 10,264.1	3,456.4	R 13,720.5
2013	17.9	1,274.8	R 3,360.4	184.2	167.0	4,616.1	1.3	R 457.8	R 8,786.8	234.6	R 10,314.1	3,686.7	R 14,000.8
2014	18.3	1,370.2	R 3,141.7	226.1	158.4	4,534.0	1.0	R 494.3	R 8,555.5	R 265.5	R 10,209.5	3,703.5	R 13,913.0
2015	14.9	R 1,327.6	R 2,010.6	129.2	87.0	3,242.4	0.1	R 366.0	R 5,835.3	R 205.4	R 7,383.2	3,789.4	R 11,172.5
2016	14.3	1,101.3	R 1,694.0	96.9	68.0	3,018.4	(s)	R 382.5	R 5,259.9	R 183.1	R 6,558.6	3,738.6	R 10,297.2
2017	12.9	1,356.6	R 1,957.5	111.3	90.3	3,412.7	—	366.2	R 5,938.1	R 180.5	R 7,488.1	3,791.0	R 11,279.1
2018	12.6	1,533.6	R 2,523.2	158.8	R 101.2	3,699.8	—	390.7	R 6,873.7	R 177.5	R 8,597.4	3,845.6	R 12,443.1
2019	13.4	R 1,414.5	R 2,344.9	135.3	R 100.3	3,520.2	—	R 414.7	R 6,515.4	R 170.5	8,113.7	3,939.1	12,052.8
2020	12.8	R 1,373.3	R 1,860.9	117.9	R 48.9	2,672.0	—	378.7	R 5,078.5	R 104.5	R 6,569.1	3,802.2	R 10,371.4
2021	12.9	R 1,682.5	R 2,529.5	168.8	R 81.0	4,104.5	—	R 450.6	R 7,334.3	R 132.7	R 9,162.4	4,417.4	R 13,579.7
2022	13.9	R 2,279.5	R 3,945.1	180.9	R 162.2	5,274.0	—	R 611.6	R 10,173.9	R 162.6	R 12,629.9	4,837.3	R 17,467.2
2023	16.5	2,129.5	3,214.1	150.8	141.9	4,758.0	—	532.6	8,797.4	150.4	11,093.8	4,720.4	15,814.2

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. · Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2023, Arkansas

Year	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
	Prices in dollars per million Btu									
1970	—	0.75	0.93	1.81	1.40	1.79	0.71	1.05	6.82	1.87
1975	—	1.12	2.40	3.51	2.80	3.44	1.39	1.80	9.35	3.82
1980	2.97	2.49	6.54	8.77	—	8.54	3.57	3.45	15.58	8.10
1985	3.19	4.35	10.33	8.46	7.18	8.44	4.04	4.98	21.91	11.38
1990	2.70	5.06	7.69	10.78	6.75	10.72	3.53	5.84	23.64	13.51
1995	—	5.05	5.20	9.68	3.97	9.59	2.87	5.47	23.40	13.52
2000	—	7.29	8.41	13.81	7.83	13.72	4.37	8.44	21.85	14.93
2005	—	13.52	14.11	19.34	13.54	19.26	6.83	13.95	23.45	19.49
2006	5.63	13.73	16.30	21.00	17.23	20.95	7.87	14.45	25.95	21.27
2007	4.51	12.96	17.83	22.81	15.66	22.75	8.70	14.05	25.59	20.90
2008	—	13.97	24.82	26.97	19.41	26.95	10.72	15.78	27.18	22.24
2009	—	13.24	14.50	21.94	19.79	21.91	8.05	14.14	26.79	21.31
2010	—	11.45	17.62	24.63	20.97	24.55	9.50	13.00	25.95	20.57
2011	—	11.29	25.35	27.48	25.91	27.45	11.42	13.22	26.42	21.10
2012	—	11.70	25.26	25.26	27.12	25.26	12.71	13.36	27.24	22.32
2013	—	10.26	26.28	25.01	26.62	25.02	12.45	12.15	28.09	21.40
2014	—	10.27	25.45	29.48	25.93	29.45	12.14	12.45	27.86	21.20
2015	—	11.44	15.97	22.33	17.05	22.24	8.37	12.39	28.78	22.35
2016	—	11.03	13.55	21.34	13.59	21.15	7.15	11.80	29.09	23.02
2017	—	12.78	15.71	24.75	17.00	24.60	8.00	R 13.66	30.12	24.42
2018	—	11.61	17.32	25.69	24.56	25.60	8.85	12.77	28.74	22.49
2019	—	10.90	16.68	22.58	22.93	22.57	8.51	11.91	28.71	22.14
2020	—	12.12	13.70	19.88	14.89	19.86	7.04	R 12.68	30.50	R 23.78
2021	—	12.37	16.36	25.74	23.52	25.65	8.45	R 13.46	33.03	R 25.46
2022	—	R 16.69	25.27	28.50	37.19	28.48	13.07	17.76	35.33	R 28.75
2023	—	17.50	23.14	26.46	34.19	26.44	11.95	18.14	35.91	29.41
	Expenditures in million dollars									
1970	—	45.1	0.4	43.7	1.2	45.3	2.3	92.6	100.5	193.1
1975	—	54.2	2.2	66.7	2.0	71.0	4.6	129.8	247.4	377.2
1980	0.1	115.9	5.8	69.1	—	74.9	2.8	193.6	543.7	737.4
1985	(s)	177.9	(s)	64.8	1.3	66.1	6.0	250.1	667.9	917.9
1990	(s)	199.9	(s)	73.4	0.8	74.2	4.4	278.4	851.7	1,130.1
1995	—	225.3	0.1	53.3	0.3	53.7	5.1	284.1	991.4	1,275.5
2000	—	314.7	(s)	136.4	1.1	137.6	3.9	456.2	1,108.5	1,564.7
2005	—	458.7	0.1	108.5	1.0	109.7	15.0	583.4	1,370.9	1,954.3
2006	(s)	445.6	0.2	116.3	0.9	117.4	15.3	578.3	1,510.7	2,089.1
2007	(s)	428.1	0.3	124.1	0.6	125.0	18.7	571.8	1,520.5	2,092.3
2008	—	503.3	0.2	186.1	0.2	186.6	25.7	715.6	1,612.8	2,328.4
2009	—	445.2	0.3	149.1	0.5	150.0	30.2	625.4	1,552.4	2,177.8
2010	—	417.8	1.0	149.0	0.7	150.6	38.2	606.6	1,702.9	2,309.5
2011	—	386.6	1.5	139.1	0.3	140.9	44.5	572.0	1,693.8	2,265.9
2012	—	309.6	0.6	96.5	0.1	97.2	41.4	448.2	1,664.7	2,112.9
2013	—	366.0	0.6	127.3	0.2	R 128.2	52.9	547.0	1,746.5	2,293.5
2014	—	396.1	0.8	146.4	0.4	147.6	52.2	595.9	1,753.3	2,349.2
2015	—	382.7	0.8	93.7	0.1	94.7	21.1	498.5	1,794.3	2,292.8
2016	—	303.0	1.0	68.2	0.1	69.3	R 14.7	387.0	1,764.9	2,152.0
2017	—	333.4	0.7	73.0	(s)	73.8	13.8	R 421.0	1,749.7	2,170.6
2018	—	411.7	0.7	102.6	0.1	103.4	R 24.0	R 539.1	1,888.7	R 2,427.8
2019	—	372.6	0.1	92.5	0.1	92.6	R 23.3	R 488.5	1,834.9	R 2,323.4
2020	—	372.1	0.2	83.3	(s)	83.6	R 16.1	R 471.8	1,871.4	R 2,343.2
2021	—	424.7	0.6	102.5	0.1	103.3	R 20.0	R 547.9	2,131.7	R 2,679.7
2022	—	R 531.8	1.0	126.8	0.2	128.0	R 38.9	R 698.6	2,320.5	R 3,019.2
2023	—	514.4	0.8	109.2	0.2	110.3	30.2	655.0	2,251.2	2,906.1

[a] Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2023, Arkansas

Year	Primary energy										Electricity [j]	Total energy [g,h,i]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f,g]	Total [g,h,i]		
	Prices in dollars per million Btu											
1970	—	0.52	0.86	1.21	0.77	2.74	0.42	1.34	0.71	0.65	6.07	1.57
1975	—	0.90	2.29	2.55	2.32	4.60	1.75	2.23	1.39	1.27	8.60	3.07
1980	1.89	2.29	6.25	5.30	5.51	9.93	3.33	5.20	3.57	2.82	14.74	6.71
1985	2.12	4.06	6.13	8.44	7.18	8.80	—	6.94	4.04	4.70	19.06	9.92
1990	1.99	4.43	5.47	9.25	6.75	8.86	—	7.55	2.98	4.84	20.40	11.62
1995	—	3.77	4.09	8.52	3.97	8.77	—	6.06	2.45	3.98	19.96	11.07
2000	—	5.31	6.79	11.80	7.83	11.38	—	9.39	3.13	5.78	17.49	11.11
2005	—	10.10	13.25	16.98	13.54	17.49	—	14.43	6.12	10.75	18.12	14.46
2006	2.70	10.40	15.53	18.79	17.23	19.73	—	18.32	6.99	10.91	20.39	15.94
2007	2.94	9.98	17.17	20.70	15.66	22.12	—	20.10	7.89	10.52	20.27	15.74
2008	—	11.22	23.95	25.09	19.41	25.56	—	24.87	9.55	12.20	22.30	17.20
2009	—	10.60	13.79	20.17	19.79	17.84	—	15.15	7.63	11.32	22.15	16.37
2010	—	8.82	17.77	21.48	20.97	21.97	—	19.09	8.84	10.08	21.42	15.41
2011	—	8.77	24.10	25.02	25.91	27.86	—	24.58	10.50	10.54	21.98	15.95
2012	—	7.91	24.82	18.97	27.12	28.32	—	23.35	11.23	9.20	22.61	15.54
2013	—	7.53	24.09	18.55	26.62	27.48	—	22.61	11.29	8.58	23.58	15.11
2014	—	7.79	22.04	19.75	25.93	26.20	—	21.72	R 11.38	9.09	23.59	15.15
2015	—	8.33	13.18	11.77	17.05	18.38	—	15.04	R 7.30	9.25	24.39	15.66
2016	—	7.05	11.24	11.66	13.59	16.50	—	R 13.45	R 6.21	7.85	24.12	R 14.97
2017	—	8.22	13.55	15.25	17.00	18.72	—	15.85	R 6.38	9.14	24.95	R 15.84
2018	—	7.84	16.93	16.70	24.56	20.64	—	18.29	R 7.67	9.04	22.71	14.45
2019	—	7.58	15.78	12.94	22.93	19.19	—	16.59	R 7.33	8.68	25.75	15.31
2020	—	7.55	10.48	12.12	14.89	15.69	—	12.89	R 6.61	8.15	25.24	R 14.71
2021	—	8.36	16.69	19.37	23.52	22.55	—	19.45	R 8.01	9.64	28.03	R 16.50
2022	—	R 12.69	28.43	20.55	37.19	29.34	—	27.62	R 12.78	R 14.45	30.06	R 20.44
2023	—	12.27	22.35	16.20	34.19	25.92	—	22.79	11.84	13.46	30.30	20.07
	Expenditures in million dollars											
1970	—	20.6	0.2	6.7	0.4	2.6	0.1	10.0	(s)	30.6	57.8	88.4
1975	—	29.7	1.2	11.1	1.0	3.5	11.9	28.6	0.1	58.4	128.6	187.0
1980	0.2	69.9	4.1	9.5	4.1	8.5	9.2	35.3	0.1	105.5	267.8	373.3
1985	(s)	110.5	29.6	14.8	3.4	5.5	—	53.3	0.1	163.9	380.4	544.3
1990	(s)	112.1	9.5	14.4	0.1	6.6	—	30.6	0.5	143.2	465.1	608.3
1995	—	112.0	7.2	10.7	0.1	1.3	—	19.3	0.8	132.1	529.4	661.5
2000	—	179.5	14.8	26.6	0.2	1.7	—	43.4	0.7	223.6	565.1	788.7
2005	—	321.5	55.1	18.7	1.6	12.7	—	88.0	2.5	412.1	702.7	1,114.8
2006	(s)	335.4	8.4	20.1	1.2	14.9	—	44.5	2.7	382.5	805.8	1,188.4
2007	0.1	324.1	9.0	16.2	0.8	14.0	—	39.9	3.1	367.3	816.1	1,183.3
2008	—	418.0	14.2	41.7	1.0	16.7	—	73.5	4.0	495.5	890.4	1,385.9
2009	—	389.9	77.7	23.2	(s)	12.4	—	113.4	4.3	507.6	867.5	1,375.1
2010	—	357.7	67.7	24.0	0.1	17.8	—	109.7	5.0	472.4	890.6	1,363.0
2011	—	355.9	86.4	29.5	(s)	10.1	—	126.0	5.8	487.7	911.1	1,398.8
2012	—	331.1	54.4	22.2	(s)	10.9	—	87.5	5.7	424.2	933.6	1,357.8
2013	—	365.8	R 50.8	20.7	(s)	7.8	—	R 79.3	6.4	R 451.6	957.3	R 1,408.9
2014	—	399.3	R 72.6	28.8	(s)	10.6	—	R 111.9	R 6.3	R 517.5	964.8	R 1,482.3
2015	—	401.7	R 45.2	14.7	0.1	57.5	—	R 117.4	R 2.9	R 522.0	1,011.2	R 1,533.2
2016	—	327.1	R 34.6	10.1	0.1	45.4	—	R 90.2	R 2.3	R 419.6	1,002.2	R 1,421.8
2017	—	396.1	R 43.3	12.4	0.1	50.9	—	R 106.7	R 2.2	R 505.1	1,013.9	R 1,519.0
2018	—	440.9	R 57.7	19.6	0.3	56.3	—	R 134.0	R 3.2	R 578.0	951.5	R 1,529.5
2019	—	423.2	R 63.2	14.1	0.4	52.7	—	R 130.4	R 3.0	R 556.6	1,049.6	R 1,606.2
2020	—	403.1	R 29.1	17.1	0.2	43.4	—	R 89.8	R 3.2	R 496.2	956.7	R 1,452.9
2021	—	483.9	R 51.9	33.1	0.2	63.0	—	148.2	R 3.9	R 636.0	1,101.4	R 1,737.4
2022	—	R 717.7	R 90.0	23.9	0.3	95.8	—	R 210.0	R 6.0	R 933.6	1,209.0	R 2,142.6
2023	—	666.1	62.7	20.0	0.5	76.3	—	159.5	5.4	831.0	1,208.9	2,039.9

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[g] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[j] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: Expenditure totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2023, Arkansas

Year	Primary energy												Electricity [i]	Total energy [f,g,h]
	Coal			Natural gas [a]	Petroleum						Biomass	Total [f,g,h]		
	Coking coal	Steam coal	Total		Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e,f]			
	Prices in dollars per million Btu													
1970	—	—	—	0.28	0.67	1.27	2.74	0.45	1.00	1.00	1.45	0.49	2.78	0.72
1975	—	1.22	1.22	0.68	2.09	2.77	4.60	1.63	2.38	2.18	1.45	1.27	5.18	1.61
1980	—	1.89	1.89	2.24	4.87	5.77	9.93	2.95	4.68	4.65	1.44	2.98	9.15	3.93
1985	—	2.12	2.12	3.65	6.09	9.47	8.80	4.01	7.07	6.60	1.44	4.33	13.74	5.79
1990	—	1.99	1.99	2.86	5.78	10.30	8.86	2.54	9.66	7.57	0.94	3.14	14.94	4.88
1995	—	1.82	1.82	2.56	4.41	5.17	8.77	2.26	7.20	5.41	1.18	2.66	13.22	4.28
2000	—	1.71	1.71	5.13	7.06	7.81	11.38	3.65	9.16	8.00	1.44	4.55	12.32	5.98
2005	—	2.44	2.44	9.35	13.73	12.59	17.49	6.63	14.91	14.21	2.78	8.31	13.88	9.48
2006	—	2.70	2.70	9.23	16.00	15.32	19.73	8.09	12.01	15.61	2.70	8.70	15.37	10.05
2007	—	2.94	2.94	9.42	17.43	17.25	22.12	9.16	13.56	17.02	2.57	9.00	15.39	10.28
2008	—	3.40	3.40	10.47	24.32	21.89	25.56	13.11	26.01	24.37	2.90	12.24	17.26	13.25
2009	—	3.59	3.59	8.34	14.11	13.43	17.84	9.46	17.07	15.10	2.73	8.12	16.88	9.94
2010	—	2.90	2.90	7.23	18.06	15.37	21.97	11.49	R 18.74	R 18.36	2.77	R 8.65	15.96	R 10.13
2011	—	3.25	3.25	7.33	24.18	18.99	27.86	15.63	R 20.31	R 22.91	2.85	R 9.99	16.51	R 11.30
2012	—	3.49	3.49	6.32	24.92	13.48	28.32	16.91	R 22.78	R 23.92	2.70	R 9.50	16.90	R 11.05
2013	—	3.53	3.53	6.61	24.41	13.10	27.48	16.68	R 22.87	R 23.64	2.70	R 9.71	17.69	R 11.41
2014	—	3.35	3.35	6.91	23.18	14.17	26.20	16.03	R 21.93	R 22.37	3.28	9.71	17.64	11.41
2015	—	3.19	3.19	6.82	13.96	6.91	18.38	10.32	R 19.39	R 15.44	3.18	7.51	18.25	R 9.97
2016	—	2.96	2.96	5.71	12.31	6.81	16.50	7.35	R 13.74	R 12.94	3.10	R 6.64	17.81	R 9.17
2017	—	2.76	2.76	6.55	14.98	10.29	18.72	—	13.64	14.46	3.04	7.13	17.80	9.56
2018	—	3.10	3.10	6.69	18.41	11.65	20.64	—	17.11	17.66	2.75	7.86	16.53	9.86
2019	—	3.30	3.30	6.17	16.98	7.77	19.19	—	R 18.10	R 16.81	2.71	7.49	17.97	9.86
2020	—	3.76	3.76	6.17	11.80	6.88	15.69	—	R 16.24	13.49	2.22	7.06	17.27	9.47
2021	—	3.74	3.74	7.65	18.17	13.76	22.55	—	R 18.44	R 18.42	2.85	R 9.08	19.24	R 11.61
2022	—	4.36	4.36	10.30	28.46	14.57	29.34	—	R 25.31	R 26.62	3.10	R 12.55	21.63	R 14.79
2023	—	5.23	5.23	9.26	22.96	10.02	25.92	—	23.78	22.90	3.26	11.17	20.12	13.46
	Expenditures in million dollars													
1970	—	—	—	40.7	7.7	8.2	4.2	0.5	26.1	46.6	9.3	96.6	59.1	155.7
1975	—	1.1	1.1	82.3	34.5	26.4	4.1	36.7	67.9	169.6	9.8	262.7	104.4	367.1
1980	—	12.0	12.0	265.8	100.5	42.8	2.7	25.9	135.6	307.5	14.9	600.2	338.3	938.5
1985	—	17.0	17.0	314.5	151.5	34.7	29.1	16.8	89.3	321.4	17.5	670.5	391.8	1,062.3
1990	—	11.6	11.6	303.0	81.5	42.6	19.4	2.4	74.0	219.9	39.8	574.5	472.9	1,047.4
1995	—	14.1	14.1	325.4	103.6	25.3	20.5	2.1	80.0	231.6	78.1	649.2	582.2	1,231.4
2000	—	16.4	16.4	593.8	164.8	87.2	32.5	0.2	116.8	401.5	98.0	1,109.7	674.9	1,784.7
2005	—	22.7	22.7	725.9	549.3	37.8	110.6	1.4	102.5	801.6	180.1	1,730.3	767.1	2,497.4
2006	—	24.5	24.5	722.0	644.0	50.6	136.7	0.2	144.7	976.2	188.7	1,911.4	859.1	2,770.6
2007	—	28.8	28.8	718.9	713.2	62.5	108.1	4.0	153.5	1,041.3	184.8	1,973.7	846.7	2,820.4
2008	—	32.5	32.5	784.5	1,268.9	62.3	89.8	3.7	140.5	1,565.2	174.1	2,556.3	903.8	3,460.1
2009	—	26.6	26.6	563.8	359.0	34.9	62.5	2.4	183.6	642.5	141.4	1,374.3	750.8	2,125.2
2010	—	21.1	21.1	522.6	601.5	46.6	84.1	0.1	R 261.2	R 993.4	179.1	R 1,716.2	799.7	R 2,515.9
2011	—	18.1	18.1	547.2	744.3	58.3	108.0	2.2	R 354.2	R 1,267.0	190.9	R 2,023.2	841.7	R 2,864.9
2012	—	18.0	18.0	444.0	732.9	37.7	100.8	1.1	R 307.3	R 1,179.8	181.3	R 1,823.1	858.1	R 2,681.2
2013	—	17.9	17.9	542.7	788.1	34.7	105.4	1.3	R 324.9	R 1,254.5	175.3	R 1,990.4	982.8	R 2,973.3
2014	—	18.3	18.3	574.4	688.6	49.6	86.1	1.0	R 363.2	R 1,188.4	207.0	R 1,988.2	985.4	R 2,973.6
2015	—	14.9	14.9	542.9	311.9	19.7	66.8	0.1	R 228.8	R 627.2	181.4	R 1,366.4	983.8	R 2,350.2
2016	—	14.3	14.3	470.8	250.1	17.5	63.4	(s)	R 253.3	R 584.3	166.1	R 1,235.5	971.4	R 2,206.9
2017	—	12.9	12.9	626.7	245.2	25.4	72.2	—	242.5	585.3	164.5	1,389.4	1,027.3	2,416.7
2018	—	12.6	12.6	680.6	373.3	36.3	81.2	—	262.1	752.9	150.4	1,596.5	1,005.5	2,601.9
2019	—	13.4	13.4	618.1	338.8	28.4	73.4	—	R 287.2	R 727.8	144.1	R 1,503.4	1,054.5	R 2,557.9
2020	—	12.8	12.8	597.4	254.5	17.1	60.6	—	R 260.8	R 592.9	85.2	R 1,288.3	974.1	R 2,262.4
2021	—	12.9	12.9	773.2	357.1	32.4	84.4	—	R 315.4	R 789.3	108.9	R 1,684.3	1,184.2	R 2,868.5
2022	—	13.9	13.9	R 1,028.8	565.4	29.9	118.8	—	R 439.9	R 1,154.0	R 117.7	R 2,314.5	1,307.8	R 3,622.3
2023	—	16.5	16.5	947.8	445.1	21.3	100.2	—	396.5	963.1	114.8	2,042.2	1,260.3	3,302.5

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[i] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.
Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET6. Transportation sector energy price and expenditure estimates, selected years, 1970-2023, Arkansas

Year	Primary energy											Electricity [g]	Total energy [f]
	Coal	Natural gas[a]	Petroleum								Total [f]		
			Aviation gasoline	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Lubricants	Motor gasoline [e]	Residual fuel oil	Total			
	Prices in dollars per million Btu												
1970	—	—	2.17	1.16	1.21	0.72	5.08	2.74	0.40	2.38	2.38	—	2.38
1975	1.22	—	3.45	2.53	2.55	2.01	7.48	4.60	1.57	4.05	4.05	—	4.05
1980	—	—	9.02	6.70	5.30	6.34	14.36	9.93	—	9.11	9.11	—	9.11
1985	—	—	9.99	6.56	9.70	5.96	18.18	8.80	—	8.25	8.25	—	8.25
1990	—	—	9.32	7.87	10.68	5.90	20.61	8.86	—	8.63	8.63	—	8.63
1995	—	3.63	8.36	7.44	11.66	4.28	21.75	8.77	—	8.39	8.39	—	8.39
2000	—	6.01	10.87	10.27	14.41	6.61	23.20	11.38	—	10.71	10.71	—	10.71
2005	—	10.06	18.56	16.98	20.66	13.09	35.22	17.49	7.03	17.35	17.35	—	17.35
2006	—	8.25	22.31	18.76	22.06	15.06	43.88	19.73	—	19.49	19.49	—	19.49
2007	—	8.31	23.70	20.68	24.91	15.73	47.16	22.12	—	21.67	21.67	—	21.67
2008	—	11.11	27.23	27.12	29.48	22.56	55.12	25.56	—	26.27	26.27	34.55	26.27
2009	—	7.86	20.32	16.93	23.44	12.42	56.07	17.84	—	17.72	17.72	36.10	17.72
2010	—	7.78	25.19	21.19	26.78	16.13	58.80	21.97	—	21.81	21.81	33.22	21.81
2011	—	9.27	31.64	27.25	30.47	22.45	69.54	27.86	—	27.78	27.78	32.53	27.78
2012	—	8.95	33.04	27.99	23.31	22.84	72.11	28.32	—	28.33	28.33	32.92	28.33
2013	—	R 8.81	32.71	27.71	22.81	21.93	69.42	27.48	—	27.68	27.68	33.95	27.68
2014	—	R 8.84	33.16	26.74	24.12	20.17	69.44	26.20	—	26.49	26.49	33.25	26.49
2015	—	R 8.57	24.86	18.62	14.72	11.79	67.28	18.38	—	18.64	18.64	32.86	18.64
2016	—	R 8.36	21.62	15.75	14.59	9.53	65.78	16.50	—	R 16.42	16.41	30.48	16.41
2017	—	R 8.87	24.13	17.97	19.20	11.89	67.25	18.72	—	18.59	18.59	35.94	18.59
2018	—	R 9.07	27.04	21.40	20.98	15.50	72.37	20.64	—	21.11	21.11	33.26	21.11
2019	—	R 9.14	25.57	20.38	16.20	14.36	74.92	19.19	—	19.80	19.80	34.38	19.80
2020	—	R 8.53	22.34	16.73	14.30	9.29	75.34	15.69	—	16.28	16.28	39.03	16.28
2021	—	R 8.55	28.86	21.96	23.79	14.33	81.25	22.55	—	22.51	22.51	39.74	22.51
2022	—	R 13.27	36.02	33.83	24.60	25.98	97.37	29.34	—	R 31.25	31.24	45.37	31.24
2023	—	12.48	32.62	28.29	18.50	20.75	105.48	25.92	—	26.95	26.94	43.74	26.94
	Expenditures in million dollars												
1970	—	—	3.2	22.8	3.2	8.5	9.2	316.9	(s)	363.9	363.9	—	363.9
1975	(s)	—	4.4	94.4	6.7	21.7	14.0	658.9	0.1	800.2	800.2	—	800.2
1980	—	—	12.5	261.3	4.2	70.0	37.6	1,370.7	—	1,756.4	1,756.4	—	1,756.4
1985	—	—	4.4	293.7	5.5	65.7	43.4	1,195.7	—	1,608.3	1,608.9	—	1,608.9
1990	—	—	5.9	445.4	3.4	54.5	55.3	1,323.6	—	1,888.1	1,892.5	—	1,892.5
1995	—	0.1	6.0	543.9	2.3	28.5	55.7	1,444.7	—	2,081.1	2,081.3	—	2,081.3
2000	—	0.7	5.1	857.3	5.2	182.4	63.4	1,936.2	—	3,049.6	3,050.3	—	3,050.3
2005	—	0.1	6.3	1,653.3	6.6	92.9	81.2	3,009.1	(s)	4,849.5	4,849.6	—	4,849.6
2006	—	0.1	12.5	1,799.2	6.8	101.0	98.6	3,384.4	—	5,402.4	5,402.5	—	5,402.5
2007	—	0.1	13.1	2,012.2	5.7	109.3	109.4	3,854.4	—	6,104.1	6,104.2	—	6,104.2
2008	—	0.1	12.0	2,575.9	17.4	138.8	118.8	4,350.5	—	7,213.3	7,213.4	(s)	7,213.5
2009	—	0.1	11.3	R 1,597.2	6.9	56.4	108.6	3,108.6	—	R 4,889.0	R 4,889.1	(s)	R 4,889.2
2010	—	0.1	10.9	R 2,072.8	2.0	126.7	118.7	3,785.5	—	R 6,116.6	R 6,116.7	(s)	6,116.8
2011	—	0.2	12.9	R 2,698.2	2.2	174.8	132.9	4,636.3	—	R 7,657.3	R 7,657.5	(s)	R 7,657.5
2012	—	0.2	13.7	R 2,522.8	1.0	184.0	122.6	4,724.2	—	R 7,568.4	R 7,568.6	0.1	R 7,568.7
2013	—	R 0.2	11.6	R 2,520.8	1.5	167.0	121.1	4,502.8	—	R 7,324.8	R 7,325.1	(s)	R 7,325.1
2014	—	0.3	6.5	R 2,379.8	1.4	158.4	124.2	4,437.3	—	R 7,107.6	R 7,107.9	(s)	R 7,107.9
2015	—	0.3	6.0	R 1,652.8	1.1	87.0	130.9	3,118.2	—	R 4,995.9	R 4,996.2	(s)	R 4,996.3
2016	—	0.4	5.2	R 1,408.3	1.1	68.0	123.8	2,909.6	—	R 4,516.1	R 4,516.4	(s)	R 4,516.5
2017	—	0.4	5.9	R 1,668.4	0.4	90.3	117.7	3,289.6	—	R 5,172.3	R 5,172.7	(s)	R 5,172.8
2018	—	0.5	6.4	R 2,091.4	0.3	R 101.2	121.8	3,562.2	—	R 5,883.4	R 5,883.9	(s)	R 5,883.9
2019	—	0.6	6.2	1,942.8	0.3	R 100.3	120.7	3,394.2	—	R 5,564.6	R 5,565.3	(s)	R 5,565.3
2020	—	R 0.7	5.0	R 1,577.1	0.4	R 48.9	R 112.7	2,568.0	—	R 4,312.2	R 4,312.8	(s)	R 4,312.9
2021	—	R 0.7	7.1	R 2,119.8	0.8	R 81.0	R 127.7	3,957.1	—	R 6,293.5	R 6,294.2	(s)	R 6,294.2
2022	—	R 1.2	9.1	R 3,288.7	0.4	R 162.2	R 162.1	5,059.5	—	R 8,682.0	R 8,683.2	(s)	R 8,683.2
2023	—	1.2	7.9	2,705.4	0.3	141.9	127.5	4,581.5	—	7,564.5	7,565.7	(s)	7,565.7

[a] Transportation use of natural gas as vehicle fuel only.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET7. Electric power sector price and expenditure estimates, selected years, 1970-2023, Arkansas

Year	Coal	Natural gas [a]	Petroleum: Distillate fuel oil	Petroleum: Petroleum coke	Petroleum: Residual fuel oil	Petroleum: Total	Nuclear fuel	Biomass: Wood and waste [b]	Electricity imports [c]	Total energy [d]
	Prices in dollars per million Btu									
1970	—	0.25	0.46	—	0.42	0.42	—	—	—	0.26
1975	—	0.61	2.22	—	1.78	1.79	0.24	—	—	0.72
1980	1.34	2.16	4.34	—	3.34	3.39	0.54	—	—	1.46
1985	1.58	2.82	5.86	—	3.84	4.99	0.77	—	—	1.37
1990	1.61	1.54	4.94	—	2.75	4.72	0.73	—	—	1.32
1995	1.61	1.70	4.18	—	1.90	3.83	0.52	—	—	1.28
2000	1.42	4.38	4.66	—	3.99	4.11	0.52	—	—	1.42
2005	1.46	8.35	10.01	—	6.82	7.54	0.52	2.28	—	1.98
2006	1.47	6.21	14.17	—	8.09	9.11	0.53	2.32	—	1.91
2007	1.60	6.86	14.79	—	8.14	11.15	0.57	2.42	—	1.98
2008	1.72	8.95	16.41	—	6.39	10.71	0.54	2.66	—	2.36
2009	1.67	4.04	16.01	—	5.15	9.84	0.66	2.20	—	1.77
2010	1.71	5.01	16.14	—	13.74	15.47	0.73	2.40	—	2.04
2011	1.91	5.61	21.73	—	20.44	21.55	0.77	2.44	—	2.35
2012	2.25	3.12	22.99	—	23.18	23.00	0.77	2.21	—	2.05
2013	2.40	4.83	22.06	—	21.65	22.02	0.61	2.26	—	2.43
2014	2.40	6.46	21.41	—	19.89	21.40	0.83	2.73	—	2.53
2015	2.26	3.28	13.26	—	10.34	13.24	0.82	2.62	—	2.08
2016	2.17	3.08	10.38	—	—	10.38	0.67	2.54	—	2.02
2017	2.03	3.30	12.79	—	—	12.79	0.83	2.40	—	2.05
2018	1.98	3.30	16.48	—	—	16.48	0.81	2.22	—	2.07
2019	1.97	2.61	14.74	—	—	14.74	0.68	2.33	—	1.84
2020	1.87	2.33	9.88	—	9.87	9.88	0.59	1.80	—	1.58
2021	2.08	6.99	15.76	—	—	15.76	0.53	2.39	—	3.15
2022	2.33	6.94	25.20	—	—	25.20	0.50	2.69	—	R 3.48
2023	2.19	2.69	22.02	—	—	22.02	0.47	2.93	—	1.89
	Expenditures in million dollars									
1970	—	27.4	(s)	—	1.8	1.9	—	—	—	29.3
1975	—	19.7	0.8	—	49.0	49.8	12.7	—	—	82.2
1980	40.3	130.1	4.5	—	65.3	69.8	46.0	—	—	286.3
1985	334.0	34.0	0.4	—	0.2	0.6	81.3	—	—	449.9
1990	333.3	50.3	4.0	—	0.3	4.3	87.5	—	—	475.3
1995	369.8	56.6	2.3	—	0.2	2.5	64.2	—	—	493.1
2000	366.6	154.4	1.8	—	7.4	9.2	62.7	—	—	592.9
2005	347.7	420.8	4.2	—	9.9	14.1	74.3	4.8	—	861.6
2006	364.1	453.3	3.9	—	11.1	15.1	84.6	1.8	—	919.0
2007	425.2	447.7	5.4	—	3.6	8.9	93.0	4.2	—	979.1
2008	463.1	592.5	4.2	—	2.2	6.4	80.4	5.1	—	1,147.4
2009	429.6	344.7	5.9	—	2.5	8.4	105.3	1.2	—	889.2
2010	489.5	493.4	5.1	—	1.7	6.8	113.9	2.6	—	1,106.2
2011	574.1	613.0	10.2	—	1.6	11.8	114.9	3.2	—	1,317.1
2012	655.4	411.7	7.0	—	0.3	7.3	125.1	2.9	—	1,202.4
2013	771.5	462.6	8.2	—	1.0	9.2	75.7	3.1	—	1,322.1
2014	802.6	479.2	5.6	—	(s)	5.6	126.1	7.2	—	1,420.8
2015	501.9	370.8	7.5	—	(s)	7.5	119.0	7.0	—	1,006.2
2016	525.4	428.5	4.3	—	—	4.3	94.5	10.1	—	1,062.9
2017	533.7	429.8	6.1	—	—	6.1	110.8	7.8	—	1,088.2
2018	594.1	515.0	5.3	—	—	5.3	107.7	6.4	—	1,228.5
2019	463.4	426.2	6.6	—	—	6.6	95.9	6.4	—	998.5
2020	296.4	322.6	5.0	—	0.2	5.2	92.8	4.3	—	721.2
2021	442.5	1,072.9	8.6	—	—	8.6	75.2	1.7	—	1,601.0
2022	486.8	1,349.7	16.7	—	—	16.7	74.4	1.6	—	1,929.1
2023	387.6	531.3	10.2	—	—	10.2	72.9	0.9	—	1,003.0

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[c] Electricity imported from Canada and Mexico.
[d] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET1. Primary energy, electricity, and total energy price and expenditure estimates, selected years, 1970-2023, California

	Primary energy																
	Coal				Petroleum								Biomass				
Year	Coking coal	Steam coal	Total	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Nuclear fuel	Wood and waste [g,h]	Total [h,i,j,k]	Electric power sector [l,k,l]	Electricity [m]	Total energy [h,i,j]
	Prices in dollars per million Btu																
1970	0.43	0.96	0.46	0.56	1.26	1.80	0.73	2.80	0.38	1.59	1.80	0.19	1.39	1.21	0.34	4.76	1.74
1975	1.38	0.92	1.32	1.25	2.97	3.16	2.04	4.84	2.38	2.84	3.56	0.21	1.55	2.61	1.82	8.71	3.47
1980	1.97	1.82	1.91	3.54	6.62	6.12	6.21	10.19	4.49	6.51	7.42	0.49	2.74	5.95	3.99	17.16	7.71
1985	—	2.26	2.26	5.01	6.67	9.93	6.01	8.68	4.75	8.17	7.46	0.96	3.30	6.20	3.80	22.90	8.90
1990	—	1.89	1.89	4.20	7.50	10.64	5.76	8.57	3.66	7.18	7.31	0.72	1.38	5.63	2.25	25.98	9.04
1995	—	1.66	1.66	4.22	7.78	11.08	4.15	9.27	2.14	6.88	7.40	0.43	2.53	5.69	1.69	29.15	9.68
2000	—	1.57	1.57	6.54	10.43	13.99	6.91	12.55	6.24	6.75	10.49	0.45	2.12	8.21	4.21	27.81	12.05
2005	—	1.91	1.91	9.57	17.55	21.40	12.85	18.96	5.63	10.51	16.56	0.44	4.08	12.81	5.22	34.15	17.46
2006	—	2.16	2.16	8.83	19.57	24.20	15.04	21.47	7.29	12.90	18.82	0.45	4.38	13.92	4.67	37.66	19.40
2007	—	2.47	2.47	8.61	20.58	26.25	16.19	23.34	8.20	14.03	20.22	0.47	6.85	14.53	4.95	37.62	20.15
2008	—	2.67	2.67	10.07	26.35	30.45	22.24	26.96	16.39	16.90	24.93	0.48	4.10	17.50	5.79	36.69	23.25
2009	—	2.66	2.66	6.38	17.23	24.64	12.50	20.56	12.57	21.28	18.18	0.54	4.26	12.43	3.28	38.89	18.68
2010	—	2.94	2.94	6.97	22.32	28.06	16.17	24.76	15.32	R 28.94	R 22.59	0.58	4.72	R 15.00	3.60	38.23	21.23
2011	—	3.13	3.13	7.08	28.91	32.29	22.51	30.51	20.92	R 28.76	R 28.50	0.67	5.04	R 18.17	3.29	38.35	24.55
2012	—	3.05	3.05	5.72	29.96	26.38	22.88	32.24	23.28	R 33.40	R 29.91	0.73	4.44	R 18.30	3.22	39.75	R 25.18
2013	—	3.39	3.39	R 6.51	29.29	27.51	21.87	31.08	22.36	R 31.86	R 29.00	0.71	4.46	R 18.21	3.89	42.01	R 25.16
2014	—	3.43	3.43	R 7.35	28.31	29.56	20.37	29.99	21.60	R 32.67	R 28.06	0.65	4.80	R 18.25	4.51	44.49	25.65
2015	—	3.57	3.57	R 6.17	20.77	19.99	12.21	25.47	11.63	R 29.96	R 22.09	0.65	R 3.35	R 14.72	3.10	45.30	R 22.16
2016	—	3.38	3.38	R 6.59	18.28	19.00	9.82	22.01	8.44	R 26.24	R 18.84	0.65	R 3.09	R 13.33	2.88	44.74	R 20.17
2017	—	3.78	3.78	R 7.21	R 21.20	23.15	12.00	24.37	11.94	27.07	21.15	0.67	R 3.10	R 15.07	3.25	47.17	21.99
2018	—	3.53	3.53	R 7.41	26.78	25.25	15.67	28.09	14.93	30.15	25.06	0.68	R 3.12	R 17.43	3.68	48.70	24.47
2019	—	3.41	3.41	R 7.79	R 26.95	20.59	14.76	29.10	14.06	R 31.82	R 25.27	0.67	R 3.36	R 17.73	3.17	49.60	R 24.69
2020	—	3.54	3.54	R 7.80	R 22.84	18.47	9.82	24.79	10.25	R 28.32	R 21.73	0.65	R 2.45	R 14.82	2.74	52.86	R 23.66
2021	—	3.60	3.60	R 9.81	28.82	27.77	14.39	32.46	15.48	R 31.84	28.16	0.71	R 3.12	R 19.81	4.46	57.75	R 28.44
2022	—	4.02	4.02	R 13.77	42.11	27.32	26.08	42.81	26.83	R 40.45	R 38.91	R 0.60	R 4.31	R 27.87	7.76	65.56	R 37.35
2023	—	5.10	5.10	14.06	37.47	24.44	20.89	38.64	22.09	37.14	34.52	0.57	4.20	25.52	6.66	73.04	35.72
	Expenditures in million dollars																
1970	25.6	2.7	28.2	1,126.7	283.0	96.3	242.7	3,149.1	161.1	245.9	4,178.2	6.7	55.8	5,395.5	-282.1	1,886.6	7,000.0
1975	67.7	6.9	74.6	2,148.2	719.4	169.0	716.0	6,137.9	1,628.1	476.2	9,846.6	14.4	67.6	12,151.3	-1,553.7	4,328.7	14,926.2
1980	79.8	46.8	126.6	6,063.2	2,390.8	364.9	2,199.3	13,579.1	4,131.7	1,383.3	24,049.1	26.1	99.7	30,367.1	-4,020.8	9,559.9	35,906.1
1985	—	102.4	102.4	9,251.8	2,775.8	621.8	2,257.8	12,195.2	1,953.0	1,401.5	21,205.0	200.4	171.3	31,077.6	-3,628.8	14,143.0	41,591.8
1990	—	159.2	159.2	8,366.4	3,368.4	642.0	3,081.3	13,778.7	1,461.5	1,201.3	23,533.1	249.6	203.0	32,691.9	-2,599.0	18,415.2	48,508.1
1995	—	140.2	140.2	8,337.7	3,302.9	473.2	2,241.5	15,127.1	617.7	1,148.0	22,910.4	135.1	305.1	31,870.2	-1,772.5	20,824.8	50,922.5
2000	—	109.9	109.9	15,046.1	5,664.6	582.6	4,036.2	22,379.8	1,321.2	1,454.8	35,439.2	164.9	255.2	51,330.7	-5,953.3	22,904.7	68,282.0
2005	—	128.8	128.8	20,771.7	9,879.3	873.2	7,623.0	37,538.3	1,201.6	1,687.5	58,803.0	167.2	466.5	80,654.8	-6,383.3	29,302.7	103,574.2
2006	—	144.7	144.7	19,608.7	11,258.3	988.2	9,072.0	42,647.7	1,724.8	1,914.7	67,605.6	148.5	504.2	88,185.3	-5,878.9	33,433.0	115,739.4
2007	—	164.3	164.3	19,822.2	11,772.4	1,038.9	10,167.5	45,691.3	2,045.5	2,332.3	73,047.9	176.8	771.4	94,343.6	-6,788.4	33,545.9	121,101.0
2008	—	168.6	168.6	23,114.5	13,745.9	1,741.4	12,718.0	50,163.2	4,149.3	2,366.4	84,884.1	161.8	467.4	109,131.3	-7,858.4	33,207.2	134,480.1
2009	—	139.5	139.5	14,159.1	R 8,732.6	1,415.8	6,942.6	37,335.0	3,044.0	2,127.1	R 59,597.0	179.7	494.9	R 74,696.2	-4,232.4	34,097.2	R 104,560.9
2010	—	161.4	161.4	14,914.1	R 11,781.6	1,715.4	7,037.4	44,565.2	3,844.7	R 2,395.5	R 71,339.8	196.7	582.4	R 87,352.1	-4,388.3	33,381.8	R 116,345.6
2011	—	173.1	173.1	14,353.7	R 15,593.0	2,011.4	9,752.1	53,395.0	3,910.1	R 3,014.8	R 87,676.4	256.0	614.3	R 103,320.2	-3,737.7	33,919.1	R 133,501.5
2012	—	133.6	133.6	13,009.6	R 15,503.4	1,428.1	9,960.0	55,821.5	3,889.0	R 2,917.6	R 89,519.7	140.9	560.5	R 103,652.3	-3,832.6	34,852.5	R 134,672.2
2013	—	129.5	129.5	R 14,786.8	R 15,547.0	1,480.7	9,757.1	54,489.2	2,776.5	R 3,158.1	R 87,208.6	133.1	577.0	R 103,266.4	-4,493.8	37,028.1	R 135,800.8
2014	—	135.3	135.3	R 16,074.9	R 15,802.3	1,540.5	9,289.0	52,719.0	1,826.3	R 3,206.2	R 84,383.3	115.2	R 622.9	R 101,893.3	-5,256.3	39,424.1	R 136,061.1
2015	—	110.4	110.4	R 13,393.2	R 11,699.0	1,021.9	6,001.7	46,122.1	1,353.5	R 3,120.2	R 69,318.4	126.7	R 387.9	R 83,832.3	-3,565.3	39,979.2	R 120,246.2
2016	—	108.4	108.4	R 13,373.1	R 10,173.2	1,073.1	5,228.0	40,583.9	1,228.6	R 2,754.6	R 61,041.4	127.9	R 328.9	R 75,485.4	-2,909.7	38,787.2	R 111,362.9
2017	—	127.4	127.4	R 14,240.8	R 12,184.2	1,254.8	R 6,788.8	45,176.0	1,968.3	2,726.3	R 70,098.4	124.9	R 325.6	R 85,377.8	-3,006.5	40,960.0	R 123,331.3
2018	—	117.6	117.6	R 14,773.1	R 15,350.8	1,423.1	R 9,034.0	51,912.7	2,520.3	3,034.6	R 83,275.6	129.1	R 338.7	R 98,866.0	-3,365.4	41,972.2	R 137,472.9
2019	—	105.4	105.4	R 15,573.8	R 15,208.8	1,235.7	R 8,688.4	52,965.5	2,592.0	R 3,028.9	R 83,719.4	113.6	R 375.3	R 100,096.9	-2,684.2	41,971.4	R 139,384.2
2020	—	99.3	99.3	R 15,148.1	R 12,003.6	1,042.4	R 3,320.7	36,307.9	1,292.0	R 2,565.4	R 56,532.0	110.5	R 303.9	R 72,316.6	-2,419.3	44,682.0	R 114,579.3
2021	—	101.7	101.7	R 19,334.2	R 20,819.6	1,655.4	R 5,761.1	52,381.6	2,751.4	R 3,070.6	R 86,439.7	121.9	R 384.6	R 106,596.3	-4,081.8	48,203.7	R 150,718.2
2022	—	120.7	120.7	R 26,339.5	R 32,798.7	1,568.1	R 12,268.7	68,399.1	4,885.9	R 4,011.7	R 123,932.1	111.1	R 430.9	R 151,248.1	-7,182.6	55,917.7	R 199,983.2
2023	—	146.6	146.6	27,338.0	33,737.5	1,385.9	10,685.5	61,287.5	3,338.1	3,216.7	113,651.0	106.3	396.9	142,001.3	-6,090.8	59,189.0	195,099.6

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[l] Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
[m] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.
Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET2. Total end-use energy price and expenditure estimates, selected years, 1970-2023, California

Year	Primary energy											Electricity [k]	Total energy [h,i,j]
			Petroleum							Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g,h]	Total [h,i,j]		
	Prices in dollars per million Btu												
1970	0.46	0.67	1.26	1.80	0.73	2.80	0.37	1.59	1.89	1.40	1.41	4.76	1.74
1975	1.32	1.29	2.97	3.16	2.04	4.84	2.08	2.84	3.79	1.56	2.78	8.71	3.47
1980	1.91	3.55	6.64	6.12	6.21	10.19	4.08	6.51	7.76	2.74	6.43	17.16	7.71
1985	2.26	5.35	6.68	9.93	6.01	8.68	4.71	8.17	7.49	3.30	6.77	22.90	8.90
1990	2.01	4.76	7.51	10.64	5.76	8.57	3.57	7.38	7.37	2.70	6.46	25.98	9.04
1995	1.78	5.14	7.79	11.08	4.15	9.27	2.14	7.53	7.45	2.47	6.62	29.15	9.68
2000	1.67	7.02	10.48	13.99	6.91	12.55	6.24	7.40	10.56	3.00	9.37	27.81	12.05
2005	2.12	10.41	17.57	21.40	12.85	18.96	5.63	12.10	16.67	4.62	14.63	34.15	17.46
2006	2.39	10.14	19.58	24.20	15.04	21.47	7.29	14.81	18.93	4.76	16.20	37.66	19.40
2007	2.81	9.85	20.59	26.25	16.19	23.34	8.20	15.78	20.32	5.25	17.10	37.62	20.15
2008	2.96	11.36	26.36	30.45	22.24	26.96	16.39	19.09	25.05	6.80	20.76	36.69	23.25
2009	2.95	7.60	17.24	24.64	12.50	20.56	12.57	25.27	18.27	6.31	14.93	38.89	18.68
2010	3.41	8.12	22.32	28.06	16.17	24.76	15.32	R 33.63	R 22.67	6.89	R 18.01	38.23	21.23
2011	3.64	8.19	28.91	32.29	22.51	30.51	20.92	R 31.66	R 28.59	6.91	R 21.87	38.35	24.55
2012	3.54	7.05	29.96	26.38	22.88	32.24	23.28	R 34.16	R 29.93	6.73	R 22.33	39.75	R 25.18
2013	3.67	R 7.77	29.29	27.51	21.87	31.08	22.36	R 31.95	R 29.00	7.42	R 21.87	42.01	R 25.16
2014	3.63	R 8.84	R 28.31	29.56	20.37	29.99	21.60	R 32.75	R 28.06	R 7.92	R 21.87	44.49	25.65
2015	3.57	R 7.98	R 20.77	19.99	12.21	25.47	11.63	R 29.96	R 22.09	R 4.71	R 17.66	45.30	R 22.16
2016	3.38	R 8.40	R 18.28	19.00	9.82	22.01	8.44	R 26.24	R 18.84	R 4.00	R 15.60	44.74	R 20.17
2017	3.78	R 8.85	21.21	23.15	12.00	24.37	11.94	27.07	R 21.15	R 4.23	R 17.37	47.17	21.99
2018	3.53	R 8.78	26.79	25.25	15.67	28.09	14.93	30.15	25.06	R 4.51	20.08	48.70	24.47
2019	3.41	R 9.48	26.96	20.59	14.76	29.10	14.06	R 31.82	R 25.27	R 4.88	R 20.30	49.60	R 24.69
2020	3.54	R 10.01	R 22.85	18.47	9.82	24.79	10.25	R 28.32	R 21.73	R 3.09	R 17.49	52.86	R 23.66
2021	3.60	R 12.07	R 28.82	27.77	14.39	32.46	15.48	R 31.84	28.16	R 3.79	R 22.96	57.75	R 28.44
2022	4.02	R 15.87	42.12	27.32	26.08	42.81	26.83	R 40.45	R 38.91	R 6.47	R 32.00	65.56	R 37.35
2023	5.10	16.97	37.47	24.44	20.89	38.64	22.09	37.14	34.52	5.88	29.22	73.04	35.72
	Expenditures in million dollars												
1970	28.2	906.5	282.8	96.3	242.7	3,149.1	106.4	245.9	4,123.2	55.4	5,113.4	1,886.6	7,000.0
1975	74.6	1,842.9	717.4	169.0	714.6	6,137.9	397.5	476.2	8,612.6	67.4	10,597.6	4,328.7	14,926.2
1980	126.6	4,138.2	2,337.5	364.9	2,166.4	13,579.1	2,150.9	1,383.3	21,982.1	99.4	26,346.3	9,559.9	35,906.1
1985	102.4	6,121.6	2,765.6	621.8	2,257.8	12,195.2	1,798.8	1,401.5	21,040.6	171.2	27,448.8	14,143.0	41,591.8
1990	131.0	6,399.5	3,361.4	642.0	3,081.3	13,778.7	1,265.1	1,197.3	23,325.8	203.0	30,092.9	18,415.2	48,508.1
1995	108.4	6,959.5	3,300.0	473.2	2,241.5	15,127.1	607.8	1,137.1	22,886.7	143.1	30,097.7	20,824.8	50,922.5
2000	79.9	9,750.4	5,632.2	582.6	4,036.2	22,379.8	1,317.9	1,446.2	35,394.9	152.2	45,377.3	22,904.7	68,282.0
2005	99.2	15,203.2	9,865.4	873.2	7,623.0	37,538.3	1,201.4	1,676.5	58,777.9	191.1	74,271.5	29,302.7	103,574.2
2006	107.9	14,436.4	11,242.2	988.2	9,072.0	42,647.7	1,724.1	1,896.4	67,570.5	191.6	82,306.4	33,433.0	115,739.4
2007	121.0	14,215.8	11,756.6	1,038.9	10,167.5	45,691.3	2,044.6	2,303.7	73,002.6	215.7	87,555.2	33,545.9	121,101.0
2008	116.8	16,054.3	13,723.0	1,741.4	12,718.0	50,163.2	4,148.4	2,339.1	84,833.1	268.7	101,272.9	33,207.2	134,480.1
2009	92.3	10,567.5	R 8,723.0	1,415.8	6,942.6	37,335.0	3,043.2	2,100.9	R 59,560.5	243.4	R 70,463.7	34,097.2	R 104,560.9
2010	113.0	11,241.0	R 11,773.5	1,715.4	7,037.4	44,565.2	3,843.8	R 2,368.5	R 71,303.9	305.9	R 82,963.8	33,381.8	R 116,345.6
2011	129.5	11,449.7	R 15,584.4	2,011.4	9,752.1	53,395.0	3,910.0	R 2,984.3	R 87,637.2	366.1	R 99,582.4	33,919.1	R 133,501.5
2012	108.7	9,861.9	R 15,493.9	1,428.1	9,960.0	55,821.5	3,889.0	R 2,913.2	R 89,505.8	343.3	R 99,819.7	34,852.5	R 134,672.2
2013	117.3	R 11,046.3	R 15,538.7	1,480.7	9,757.1	54,489.2	2,776.5	R 3,157.5	R 87,199.7	409.3	R 98,772.7	37,028.1	R 135,800.8
2014	118.3	R 11,734.4	R 15,794.8	1,540.5	9,289.0	52,719.0	1,826.3	R 3,205.7	R 84,375.3	R 409.1	R 96,637.1	39,424.1	R 136,061.1
2015	110.4	R 10,653.0	R 11,694.7	1,021.9	6,001.7	46,122.1	1,353.5	R 3,120.2	R 69,314.1	R 189.4	R 80,266.9	39,979.2	R 120,246.2
2016	108.4	R 11,268.5	R 10,168.9	1,073.1	5,228.0	40,583.9	1,228.6	R 2,754.6	R 61,037.1	R 161.8	R 72,575.7	38,787.2	R 111,362.9
2017	127.4	R 11,981.1	R 12,178.7	1,254.8	R 6,788.8	45,176.0	1,968.3	2,726.3	R 70,093.0	R 169.9	R 82,371.4	40,960.0	R 123,331.3
2018	117.6	R 11,920.9	R 15,344.3	1,423.1	R 9,034.0	51,912.7	2,520.3	3,034.6	R 83,269.1	R 193.1	R 95,500.6	41,972.2	R 137,472.9
2019	105.4	R 13,374.3	R 15,203.0	1,235.7	R 8,688.4	52,965.5	2,592.0	R 3,028.9	R 83,713.6	R 219.5	R 97,412.7	41,971.4	R 139,384.2
2020	99.3	R 13,077.5	R 11,998.7	1,042.4	R 3,320.7	36,307.9	1,292.0	R 2,565.4	R 56,527.1	R 193.5	R 69,897.3	44,682.0	R 114,579.3
2021	101.7	R 15,735.5	R 20,813.2	1,655.4	R 5,761.1	52,381.6	2,751.4	R 3,070.6	R 86,433.3	R 244.0	R 102,514.5	48,203.7	R 150,718.2
2022	120.7	R 19,744.1	R 32,790.8	1,568.1	R 12,268.7	68,399.1	4,885.9	R 4,011.7	R 123,924.2	R 276.4	R 144,065.5	55,917.7	R 199,983.2
2023	146.6	21,882.5	33,729.0	1,385.9	10,685.5	61,287.5	3,338.1	3,216.7	113,642.6	238.9	135,910.6	59,189.0	195,099.6

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. · Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2023, California

Year	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
	Prices in dollars per million Btu									
1970	1.31	0.93	1.27	2.62	2.57	2.43	0.82	0.99	6.53	1.91
1975	—	1.49	2.80	4.45	5.08	4.15	1.62	1.54	10.68	3.19
1980	5.13	3.37	6.92	8.15	13.04	8.14	4.15	3.53	17.18	6.70
1985	4.54	5.51	5.25	8.66	11.15	8.57	4.69	5.57	22.80	9.83
1990	3.77	5.60	5.70	12.45	7.44	11.95	4.75	5.78	29.26	12.36
1995	3.77	6.35	6.93	11.79	5.10	11.34	3.86	6.41	34.02	14.94
2000	3.72	8.58	10.78	15.29	9.87	14.58	5.88	8.74	31.92	16.56
2005	3.56	11.58	16.92	22.74	13.76	22.07	9.20	12.14	36.66	20.78
2006	3.73	11.53	19.39	25.86	22.13	25.42	10.60	12.21	42.01	23.00
2007	—	11.24	20.88	27.70	24.26	27.46	11.71	12.07	42.27	22.89
2008	—	12.41	25.91	31.77	30.07	31.60	14.42	13.62	40.46	23.34
2009	—	9.18	18.29	25.93	25.27	25.40	10.83	10.23	43.21	22.13
2010	—	9.71	23.26	30.42	27.17	30.14	12.78	11.03	43.24	22.27
2011	—	9.74	28.64	33.04	32.46	32.94	15.36	11.18	43.30	22.29
2012	—	8.96	29.84	30.23	33.86	30.26	17.11	10.12	44.95	22.99
2013	—	9.67	29.57	30.00	33.54	30.03	16.76	10.80	47.56	24.12
2014	—	11.19	28.90	35.20	33.37	34.99	16.34	12.45	47.61	26.72
2015	—	10.99	20.26	26.66	17.21	26.42	11.26	11.74	49.80	27.18
2016	—	11.44	16.89	25.48	13.72	25.09	9.62	12.11	50.98	27.51
2017	—	12.06	19.24	29.48	17.12	29.14	10.76	12.85	53.66	28.84
2018	—	11.90	22.44	30.60	24.73	30.38	11.90	12.87	55.20	29.45
2019	—	12.52	21.61	26.89	23.09	26.74	11.46	13.24	56.14	28.91
2020	—	13.68	17.75	23.69	15.00	23.44	9.47	14.09	59.93	R 31.98
2021	—	15.80	21.20	30.66	23.69	30.36	11.37	R 16.46	66.89	R 35.74
2022	—	19.47	32.74	33.94	39.11	33.98	R 17.58	R 20.12	75.73	R 41.73
2023	—	21.14	29.98	31.52	33.40	31.53	16.07	21.57	86.49	44.64
	Expenditures in million dollars									
1970	1.8	544.3	3.7	45.5	2.4	51.6	6.2	603.8	797.6	1,401.4
1975	—	993.8	8.0	40.4	6.1	54.6	13.9	1,062.3	1,612.8	2,675.0
1980	0.1	1,861.6	3.8	134.6	1.3	139.7	68.6	2,069.9	3,049.5	5,119.4
1985	1.2	3,016.1	4.4	155.6	4.6	164.6	133.9	3,315.9	4,472.8	7,788.7
1990	0.4	2,971.3	6.7	240.3	3.7	250.7	146.2	3,368.6	6,646.5	10,015.1
1995	1.5	3,067.4	7.1	193.3	2.3	202.7	92.2	3,363.8	7,983.3	11,347.1
2000	0.2	4,242.4	15.1	273.6	15.7	304.4	91.6	4,638.6	8,629.0	13,267.5
2005	0.1	5,731.8	15.3	643.3	23.7	682.3	100.2	6,514.4	10,707.6	17,222.0
2006	(s)	5,798.0	17.3	638.6	36.0	691.8	102.4	6,592.3	12,875.5	19,467.8
2007	—	5,696.8	11.6	725.5	21.0	758.0	125.0	6,579.8	12,859.8	19,439.7
2008	—	6,238.6	21.8	1,021.6	13.8	1,057.1	172.3	7,468.1	12,594.7	20,062.8
2009	—	4,533.2	41.1	782.8	24.6	848.5	170.1	5,551.8	13,238.6	18,790.4
2010	—	4,909.3	21.7	965.1	22.2	1,009.0	215.2	6,133.4	12,873.6	19,007.0
2011	—	5,089.8	18.0	993.4	20.3	1,031.7	250.9	6,372.3	13,060.9	19,433.3
2012	—	4,368.3	11.0	687.0	9.1	707.1	233.4	5,308.9	13,821.6	19,130.4
2013	—	4,779.2	16.3	684.6	8.6	R 709.6	298.3	R 5,787.1	14,481.1	20,268.1
2014	—	4,575.1	15.7	661.9	11.1	688.7	294.4	5,558.2	14,517.4	20,075.6
2015	—	4,569.4	9.0	563.2	4.3	576.4	104.7	5,250.4	15,187.8	R 20,438.3
2016	—	4,876.0	7.4	586.2	6.5	R 600.2	83.7	R 5,559.9	15,359.8	R 20,919.7
2017	—	5,383.3	7.9	651.4	4.9	664.2	R 91.3	R 6,138.8	16,500.8	R 22,639.6
2018	—	5,214.2	10.4	736.8	7.1	754.4	R 111.9	R 6,080.5	16,782.2	R 22,862.7
2019	—	6,017.5	10.4	697.8	9.7	717.9	R 131.4	R 6,866.8	16,763.8	R 23,630.6
2020	—	6,483.2	7.6	561.8	6.2	575.6	R 72.9	R 7,131.7	19,413.3	R 26,545.0
2021	—	7,341.7	11.4	743.4	8.4	763.2	R 90.5	R 8,195.4	20,604.4	R 28,799.8
2022	—	8,717.6	16.6	744.4	11.5	772.5	R 176.4	R 9,666.5	23,136.7	R 32,803.2
2023	—	10,120.7	19.3	749.3	23.0	791.6	137.1	11,049.4	24,439.8	35,489.2

[a] Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2023, California

Year	Primary energy										Electricity [j]	Total energy [g,h,i]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f,g]	Total [g,h,i]		
	Prices in dollars per million Btu											
1970	0.63	0.69	1.12	1.35	0.78	2.80	0.40	0.78	0.82	0.71	5.02	2.08
1975	—	1.22	2.60	2.68	2.50	4.84	2.45	2.92	1.62	1.48	8.73	4.36
1980	1.82	3.82	6.60	4.98	6.38	10.19	4.90	5.98	4.15	4.30	17.99	9.55
1985	2.25	6.39	5.93	9.48	11.15	8.68	3.93	7.46	4.69	6.53	23.61	15.05
1990	2.00	4.96	5.63	8.95	7.44	8.57	3.00	6.44	4.66	5.16	26.32	15.03
1995	1.76	6.14	5.11	10.22	5.10	9.27	2.70	6.45	3.04	6.08	30.09	17.67
2000	1.66	7.88	7.97	13.35	9.87	12.55	4.31	9.50	3.81	7.96	28.91	19.72
2005	2.12	10.45	14.85	17.84	13.76	18.96	—	16.33	4.29	10.80	34.92	25.28
2006	2.39	10.20	17.14	20.49	22.13	21.47	—	18.93	3.84	10.59	37.79	26.96
2007	—	9.91	18.32	22.25	24.26	23.34	—	20.25	4.84	10.53	37.57	26.68
2008	—	11.43	24.46	25.91	30.07	26.96	—	25.12	5.83	12.63	36.77	26.96
2009	—	7.55	14.76	19.98	25.27	20.56	—	16.47	4.59	8.39	38.90	26.30
2010	—	8.13	18.93	21.61	27.17	24.76	—	19.80	5.19	9.53	38.38	26.30
2011	—	8.13	25.42	26.35	32.46	30.51	—	25.87	3.93	9.99	38.24	26.50
2012	—	6.91	26.06	19.31	33.86	32.24	—	24.50	3.49	8.58	39.29	26.31
2013	—	7.61	25.39	20.35	33.54	31.08	—	24.28	3.60	9.04	41.63	27.49
2014	—	8.80	23.94	21.11	33.37	29.99	15.94	23.31	R 3.83	10.08	45.78	30.97
2015	—	7.75	15.13	13.23	17.21	25.47	8.31	21.51	R 2.38	10.80	46.12	30.05
2016	—	8.13	12.79	13.40	13.72	22.01	6.11	18.51	R 1.76	10.44	44.18	R 28.64
2017	—	8.46	15.25	16.88	17.12	24.37	—	21.05	R 1.85	11.36	46.20	30.21
2018	—	8.29	18.85	18.37	24.73	28.09	—	24.43	R 1.93	12.02	47.90	30.96
2019	—	9.10	18.12	14.61	23.09	29.10	—	24.31	R 2.54	12.54	48.86	R 31.39
2020	—	9.46	12.75	13.81	15.00	24.79	—	R 20.78	R 2.12	12.00	51.38	32.61
2021	—	11.64	19.29	21.22	23.69	32.46	—	27.45	R 2.26	R 15.44	56.21	R 36.47
2022	—	15.59	29.27	22.52	39.11	42.81	—	R 36.52	R 3.24	20.49	63.93	R 43.20
2023	—	16.65	24.71	18.20	33.40	38.64	—	31.75	3.23	20.16	70.09	45.55
	Expenditures in million dollars											
1970	0.7	152.9	4.3	8.1	2.3	21.8	21.8	58.2	0.1	211.9	696.1	908.0
1975	—	309.6	9.8	8.4	9.2	41.2	67.4	136.1	0.3	445.9	1,723.0	2,168.9
1980	0.1	1,027.9	124.0	28.5	8.0	96.1	209.9	466.5	1.7	1,496.2	3,894.7	5,391.0
1985	2.2	1,359.7	118.0	58.9	22.3	80.2	0.9	280.3	3.2	1,645.5	5,928.2	7,573.6
1990	0.9	1,460.5	134.1	59.8	0.8	86.8	16.7	298.2	16.1	1,775.9	7,931.4	9,707.2
1995	4.8	1,730.8	94.1	58.0	0.8	11.4	0.1	164.3	13.9	1,913.8	8,832.3	10,746.1
2000	0.8	1,858.2	143.9	82.6	2.9	15.5	(s)	244.9	16.9	2,120.7	9,852.9	11,973.6
2005	0.9	2,491.6	170.0	165.5	4.6	27.0	—	367.1	24.9	2,884.6	14,007.1	16,891.7
2006	0.1	2,549.4	147.3	141.1	6.8	31.7	—	326.9	25.5	2,901.8	15,636.1	18,537.9
2007	—	2,560.4	194.3	172.1	4.2	33.6	—	404.2	29.1	2,993.7	15,854.4	18,848.1
2008	—	2,949.8	402.4	258.8	2.4	38.1	—	701.6	35.7	3,687.1	15,684.2	19,371.3
2009	—	1,920.3	299.4	159.4	2.9	28.1	—	489.8	29.9	2,439.9	16,074.7	18,514.6
2010	—	2,058.4	516.5	186.4	5.1	33.0	—	741.1	35.2	2,834.6	15,863.5	18,698.1
2011	—	2,040.5	614.6	222.1	4.7	40.1	—	881.4	49.9	2,971.8	16,018.1	18,989.9
2012	—	1,784.7	566.2	165.3	1.6	41.7	—	774.8	49.8	2,609.3	16,327.2	18,936.5
2013	—	1,990.3	R 511.9	165.5	1.5	42.2	—	R 721.0	52.1	R 2,763.5	16,597.9	R 19,361.4
2014	—	2,151.0	R 462.5	205.3	1.7	39.0	0.1	R 708.5	R 54.3	R 2,913.7	18,663.2	R 21,576.9
2015	—	1,895.8	R 318.1	105.9	0.8	1,290.4	(s)	R 1,715.2	R 30.7	R 3,641.7	18,627.1	R 22,268.7
2016	—	1,995.3	R 271.2	147.0	1.1	1,117.9	(s)	R 1,537.2	R 21.1	R 3,553.6	17,603.2	R 21,156.8
2017	—	2,079.2	R 329.0	185.6	1.0	1,254.9	—	R 1,770.5	R 19.9	R 3,869.6	18,552.2	R 22,421.9
2018	—	2,125.5	R 392.5	230.1	1.1	1,473.4	—	R 2,097.1	R 21.1	R 4,243.7	18,924.3	R 23,168.0
2019	—	2,408.8	R 363.6	194.1	1.1	1,537.5	—	R 2,096.2	R 26.7	R 4,531.7	19,052.2	R 23,583.9
2020	—	2,275.2	R 198.7	172.8	0.7	1,316.4	—	R 1,688.6	R 22.4	3,986.3	18,757.4	22,743.7
2021	—	2,889.8	R 426.0	300.1	1.3	1,738.4	—	R 2,465.8	R 23.5	R 5,379.2	20,861.1	R 26,240.2
2022	—	3,978.0	R 600.1	317.4	1.8	2,355.2	—	R 3,274.5	R 34.7	R 7,287.2	24,896.3	R 32,183.5
2023	—	4,431.5	644.2	264.5	3.6	2,130.7	—	3,043.0	33.6	7,508.1	27,006.8	34,514.9

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[g] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[j] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: Expenditure totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2023, California

	Primary energy													
	Coal				Petroleum						Biomass			
	Coking coal	Steam coal	Total	Natural gas [a]	Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e,f]	Total [f,g,h]	Electricity [i]	Total energy [f,g,h]
Year	Prices in dollars per million Btu													
1970	0.43	0.63	0.43	0.38	0.68	1.42	2.80	0.35	1.13	0.97	1.54	0.60	2.90	0.90
1975	1.38	0.92	1.32	1.05	2.21	2.92	4.84	1.66	2.31	2.35	1.54	1.50	6.70	2.24
1980	1.97	1.82	1.91	3.64	5.49	5.43	10.19	3.16	5.79	5.36	1.51	4.27	16.04	6.22
1985	—	2.25	2.25	4.54	6.19	10.65	8.68	3.93	6.98	6.34	1.51	5.20	22.00	7.96
1990	—	2.00	2.00	3.79	5.69	9.97	8.57	3.00	5.64	6.21	0.99	4.31	21.35	7.09
1995	—	1.76	1.76	3.66	5.44	10.66	9.27	2.70	5.69	6.14	1.26	4.11	21.59	7.05
2000	—	1.66	1.66	5.53	7.99	12.77	12.55	4.31	5.67	7.09	1.42	5.69	20.94	8.25
2005	—	2.12	2.12	9.62	15.45	20.60	18.96	7.17	9.02	12.46	2.68	9.73	27.98	12.25
2006	—	2.39	2.39	9.09	17.40	23.04	21.47	8.65	10.64	14.76	2.66	9.94	29.57	12.83
2007	—	2.81	2.81	8.81	18.29	26.49	23.34	10.04	11.87	15.18	2.52	9.84	29.26	12.67
2008	—	2.96	2.96	10.51	24.53	31.75	26.96	13.91	14.12	19.81	2.83	12.14	29.56	14.80
2009	—	2.95	2.95	6.39	14.78	25.25	20.56	—	19.68	18.52	2.66	8.53	30.54	11.95
2010	—	3.41	3.41	6.87	19.10	27.19	24.76	—	R 26.59	R 23.31	2.68	R 10.00	28.72	R 13.00
2011	—	3.64	3.64	6.91	25.33	33.54	30.51	15.24	R 24.54	R 26.69	2.73	R 11.30	29.62	R 14.15
2012	—	3.54	3.54	5.66	26.29	25.30	32.24	16.16	R 27.01	R 27.35	2.60	R 10.31	30.75	R 13.29
2013	—	3.67	3.67	6.40	25.76	27.74	31.08	16.26	R 25.69	R 26.74	2.57	R 10.88	33.52	R 14.51
2014	—	3.63	3.63	7.44	24.38	28.72	29.99	15.94	R 26.33	R 26.25	3.11	R 11.45	36.16	R 15.32
2015	—	3.57	3.57	6.18	15.30	16.14	25.47	8.31	R 23.36	R 19.99	3.00	R 9.28	35.65	R 13.40
2016	—	3.38	3.38	6.56	13.21	15.15	22.01	6.11	R 19.86	R 17.37	2.88	R 8.89	34.94	R 12.86
2017	—	3.78	3.78	6.81	15.69	19.84	24.37	—	20.76	19.35	2.80	9.55	37.31	13.65
2018	—	3.53	3.53	6.89	19.01	23.28	28.09	11.44	23.79	22.77	2.67	10.27	38.69	14.58
2019	—	3.41	3.41	7.44	17.84	16.49	29.10	11.27	R 25.16	22.42	2.67	10.49	39.27	14.76
2020	—	3.54	3.54	7.30	12.45	15.20	24.79	8.90	R 22.21	R 18.73	2.21	R 9.52	41.82	R 14.58
2021	—	3.60	3.60	9.43	18.79	28.93	32.46	13.24	R 25.13	R 24.34	2.82	R 12.53	43.43	R 17.27
2022	—	4.02	4.02	13.27	29.21	23.69	42.81	22.10	R 32.66	R 32.08	R 2.98	R 17.75	50.08	R 23.15
2023	—	5.10	5.10	13.61	24.87	20.29	38.64	20.67	29.55	28.46	3.15	16.85	54.63	22.73
	Expenditures in million dollars													
1970	25.6	0.2	25.8	209.3	31.2	41.1	28.6	21.3	141.6	263.7	49.2	548.0	392.2	940.2
1975	67.7	6.9	74.6	539.6	126.2	116.1	34.0	62.4	324.1	662.8	53.2	1,330.2	988.9	2,319.1
1980	79.8	46.5	126.4	1,248.7	489.1	191.9	90.9	204.4	1,116.8	2,093.1	29.1	3,497.3	2,607.7	6,105.0
1985	—	99.0	99.0	1,745.8	636.7	359.5	139.8	428.9	1,024.9	2,589.9	34.1	4,468.9	3,725.4	8,194.4
1990	—	129.7	129.7	1,967.7	562.9	307.5	142.4	23.6	781.9	1,818.3	40.6	3,956.7	3,827.3	7,784.0
1995	—	102.2	102.2	2,156.6	365.1	196.8	137.5	19.1	738.6	1,457.1	37.0	3,752.9	3,986.7	7,739.6
2000	—	78.8	78.8	3,635.9	861.1	207.4	128.7	1.0	976.2	2,174.5	43.8	5,933.0	4,403.2	10,336.3
2005	—	98.2	98.2	6,896.9	1,175.1	0.1	529.2	(s)	1,071.3	2,775.7	66.0	9,836.8	4,532.7	14,369.5
2006	—	107.8	107.8	6,010.6	1,384.1	136.2	612.5	0.9	1,161.8	3,295.5	63.7	9,477.7	4,866.2	14,343.9
2007	—	121.0	121.0	5,873.6	1,199.7	72.3	533.7	—	1,515.3	3,321.0	61.6	9,377.2	4,760.7	14,137.9
2008	—	116.8	116.8	6,733.4	1,781.0	316.7	540.9	3.8	1,496.2	4,138.6	60.7	11,049.5	4,857.6	15,907.1
2009	—	92.3	92.3	4,016.6	875.2	389.3	391.6	—	1,339.2	2,995.3	43.5	7,147.7	4,713.4	11,861.1
2010	—	113.0	113.0	4,198.0	1,330.1	552.9	724.3	—	R 1,388.0	R 3,995.4	55.6	R 8,362.0	4,576.8	R 12,938.7
2011	—	129.5	129.5	4,212.1	1,926.1	782.7	877.0	(s)	R 1,891.8	R 5,477.6	65.3	R 9,884.5	4,772.8	R 14,657.3
2012	—	108.7	108.7	3,606.1	1,948.3	563.8	982.4	(s)	R 1,886.4	R 5,380.9	60.0	R 9,155.7	4,654.7	R 13,810.4
2013	—	117.3	117.3	4,173.6	1,901.5	613.1	983.8	0.6	R 2,132.5	R 5,631.5	58.8	R 9,981.2	5,877.9	R 15,859.1
2014	—	118.3	118.3	4,896.9	1,941.8	654.4	688.6	0.5	R 2,132.8	R 5,418.1	60.4	R 10,493.7	6,169.4	R 16,663.1
2015	—	110.4	110.4	4,056.8	1,220.8	337.4	767.8	(s)	R 2,003.5	R 4,329.5	54.1	R 8,550.9	6,089.0	R 14,639.8
2016	—	108.4	108.4	4,258.7	987.6	321.0	662.1	(s)	R 1,739.9	R 3,710.6	56.9	R 8,134.7	5,747.6	R 13,882.3
2017	—	127.4	127.4	4,330.9	1,213.3	398.0	742.1	—	1,760.3	4,113.7	58.6	8,630.7	5,834.4	14,465.1
2018	—	117.6	117.6	4,391.6	1,319.9	434.0	869.7	(s)	2,024.2	4,647.9	60.0	9,217.0	6,200.9	15,417.9
2019	—	105.4	105.4	4,747.4	1,189.1	327.0	897.3	0.8	R 1,999.5	R 4,413.7	61.3	R 9,327.8	6,087.1	R 15,414.9
2020	—	99.3	99.3	4,142.7	767.7	298.7	766.1	0.5	R 1,726.2	R 3,559.2	98.1	R 7,899.3	6,450.6	R 14,349.9
2021	—	101.7	101.7	5,315.0	1,379.5	599.6	988.5	1.1	R 2,076.5	R 5,045.2	130.0	R 10,591.9	6,665.0	R 17,256.9
2022	—	120.7	120.7	R 6,790.3	2,165.9	489.6	1,345.6	1.9	R 2,776.1	R 6,779.1	R 65.4	R 13,755.6	7,790.4	R 21,546.1
2023	—	146.6	146.6	6,971.0	1,799.4	359.2	1,225.3	1.5	2,227.0	5,612.4	68.2	12,798.3	7,647.9	20,446.2

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[i] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET6. Transportation sector energy price and expenditure estimates, selected years, 1970-2023, California

Year	Primary energy											Electricity [g]	Total energy [f]
			Petroleum										
	Coal	Natural gas[a]	Aviation gasoline	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Lubricants	Motor gasoline [e]	Residual fuel oil	Total	Total [f]		
	Prices in dollars per million Btu												
1970	0.63	—	2.17	1.42	1.35	0.73	5.08	2.80	0.36	2.07	2.07	2.88	2.07
1975	0.92	—	3.45	3.22	2.68	2.04	7.48	4.84	2.12	4.02	4.02	4.34	4.02
1980	—	—	9.02	7.07	4.98	6.21	14.36	10.19	4.14	8.22	8.22	11.39	8.22
1985	—	—	9.99	6.90	10.15	6.01	18.18	8.68	5.02	7.68	7.68	18.29	7.68
1990	—	4.69	9.32	8.21	9.71	5.76	20.61	8.57	3.59	7.47	7.47	9.39	7.47
1995	—	5.47	8.36	8.40	11.62	4.15	21.75	9.27	2.13	7.54	7.54	15.56	7.55
2000	—	6.19	10.87	11.24	14.51	6.91	23.20	12.55	6.24	10.89	10.89	9.47	10.89
2005	—	8.60	18.56	17.98	19.89	12.85	35.22	18.96	5.63	16.90	16.88	19.20	16.88
2006	—	7.75	22.31	19.98	21.68	15.04	43.88	21.47	7.29	19.16	19.12	18.45	19.12
2007	—	7.50	23.70	20.94	23.67	16.19	47.16	23.34	8.20	20.60	20.56	24.54	20.56
2008	—	11.02	27.23	26.74	28.47	22.24	55.12	26.96	16.39	25.33	25.28	23.90	25.28
2009	—	7.41	20.32	17.69	21.66	12.50	56.07	20.56	12.57	18.20	18.15	24.47	18.15
2010	—	5.43	25.19	23.06	24.74	16.17	58.80	24.76	15.32	22.59	22.51	24.24	22.51
2011	—	7.18	31.64	29.73	29.39	22.51	69.54	30.51	20.92	28.71	28.59	23.84	28.59
2012	—	6.87	33.04	30.81	21.28	22.88	72.11	32.24	23.28	30.17	30.05	21.01	30.04
2013	—	R 7.12	32.71	30.07	22.44	21.87	69.42	31.08	22.36	29.22	R 29.10	25.02	R 29.10
2014	—	R 7.07	33.16	29.18	23.33	20.37	69.44	29.99	21.60	28.20	R 28.08	26.09	R 28.08
2015	—	R 6.94	24.86	21.98	14.11	12.21	67.28	25.47	11.63	22.24	22.14	26.36	R 22.14
2016	—	R 7.01	21.62	19.36	14.30	9.82	65.78	22.01	8.45	18.91	18.83	28.73	18.84
2017	—	R 7.23	24.13	22.38	18.80	12.00	67.25	24.37	11.94	21.23	R 21.10	25.44	R 21.11
2018	—	R 7.33	27.04	28.25	20.04	15.67	72.37	28.09	14.93	25.19	R 25.03	25.33	R 25.03
2019	—	R 7.34	25.57	28.61	17.49	14.76	74.92	29.10	14.06	R 25.47	R 25.31	26.12	R 25.31
2020	—	R 7.30	22.34	24.64	16.35	9.82	75.34	24.79	10.25	22.00	R 21.84	29.50	R 21.85
2021	—	R 7.18	28.86	30.34	24.47	14.39	81.25	32.46	15.49	28.45	R 28.25	34.57	R 28.25
2022	—	R 8.74	36.02	43.92	23.75	26.08	97.37	42.81	26.84	39.53	R 39.21	40.32	R 39.21
2023	—	11.08	32.62	39.03	18.65	20.89	105.48	38.64	22.09	35.04	34.78	38.13	34.78
	Expenditures in million dollars												
1970	0.1	—	23.9	243.7	1.6	242.7	75.7	3,098.8	63.3	3,749.7	3,749.8	0.6	3,750.4
1975	(s)	—	28.5	573.4	4.0	714.6	108.3	6,062.6	267.8	7,759.2	7,759.2	3.9	7,763.2
1980	—	—	13.0	1,720.6	10.0	2,166.4	244.2	13,392.0	1,736.6	19,282.8	19,282.8	7.9	19,290.7
1985	—	—	68.3	2,006.4	47.7	2,257.8	281.3	11,975.2	1,369.0	18,005.8	18,018.4	16.6	18,035.1
1990	—	(s)	52.0	2,657.7	34.4	3,081.3	358.9	13,549.5	1,224.8	20,958.6	20,991.7	10.1	21,001.8
1995	—	4.7	34.1	2,833.7	25.2	2,241.5	361.3	14,978.3	588.6	21,062.6	21,067.2	22.5	21,089.7
2000	—	13.9	39.7	4,612.1	19.0	4,036.2	411.7	22,235.6	1,316.8	32,671.1	32,685.0	19.6	32,704.6
2005	—	82.8	49.7	8,505.0	64.4	7,623.0	527.2	36,982.2	1,201.4	54,952.8	55,035.7	55.4	55,091.1
2006	—	78.3	51.9	9,693.5	72.3	9,072.0	640.0	42,003.5	1,723.2	63,256.3	63,334.6	55.2	63,389.8
2007	—	85.0	53.0	10,351.0	69.1	10,167.5	710.2	45,124.1	2,044.6	68,519.5	68,604.4	71.0	68,675.4
2008	—	132.5	56.0	11,517.9	144.4	12,718.0	770.8	49,584.2	4,144.5	78,935.7	79,068.2	70.7	79,138.9
2009	—	97.4	29.2	R 7,507.3	84.3	6,942.6	704.9	36,915.3	3,043.2	R 55,226.9	R 55,324.3	70.5	R 55,394.8
2010	—	75.3	44.3	R 9,905.2	11.0	7,037.4	908.9	43,807.9	3,843.8	R 65,558.5	R 65,633.8	67.9	R 65,701.7
2011	—	107.3	60.5	R 13,025.7	13.2	9,752.1	1,007.1	52,478.0	3,909.9	R 80,246.4	R 80,353.7	67.2	R 80,421.0
2012	—	102.8	63.1	R 12,968.3	12.0	9,960.0	953.0	54,797.5	3,889.0	R 82,642.9	R 82,745.8	49.1	R 82,794.9
2013	—	R 103.2	56.5	R 13,109.0	17.5	9,757.1	958.5	53,463.2	2,775.9	R 80,137.7	R 80,240.9	71.3	R 80,312.2
2014	—	R 111.5	78.6	R 13,374.9	19.0	9,289.0	981.5	51,991.3	1,825.7	R 77,560.0	R 77,671.5	74.0	R 77,745.5
2015	—	R 131.1	62.6	R 10,146.8	15.5	6,001.7	1,049.0	44,063.9	1,353.4	R 62,692.9	R 62,824.0	75.3	R 62,899.3
2016	—	R 138.4	49.1	R 8,902.7	18.9	5,228.0	958.0	38,803.9	1,228.6	R 55,189.1	R 55,327.5	76.6	R 55,404.1
2017	—	R 187.7	49.5	R 10,628.6	19.8	R 6,788.8	910.5	43,178.9	1,968.3	R 63,544.5	R 63,732.2	72.5	R 63,804.7
2018	—	R 189.7	60.3	R 13,621.4	22.2	R 9,034.0	941.8	49,569.6	2,520.3	R 75,769.7	R 75,959.4	64.8	R 76,024.2
2019	—	R 200.7	64.2	R 13,639.9	16.8	R 8,688.4	R 954.5	50,530.7	2,591.2	R 76,485.8	R 76,686.4	68.4	R 76,754.8
2020	—	R 176.5	42.9	R 11,024.7	9.1	R 3,320.7	R 789.4	34,225.4	1,291.5	R 50,703.6	R 50,880.1	60.7	R 50,940.8
2021	—	R 188.9	56.9	R 18,996.2	12.3	R 5,761.1	R 927.6	49,654.6	2,750.3	R 78,159.0	R 78,348.0	73.2	R 78,421.2
2022	—	R 258.1	73.5	R 30,008.2	16.7	R 12,268.7	R 1,148.8	64,698.3	4,883.9	R 113,098.1	R 113,356.2	94.2	R 113,450.4
2023	—	359.3	63.1	31,266.0	12.9	10,685.5	900.0	57,931.5	3,336.6	104,195.6	104,554.9	94.4	104,649.3

[a] Transportation use of natural gas as vehicle fuel only.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET7. Electric power sector price and expenditure estimates, selected years, 1970-2023, California

Year	Coal	Natural gas [a]	Petroleum: Distillate fuel oil	Petroleum: Petroleum coke	Petroleum: Residual fuel oil	Petroleum: Total	Nuclear fuel	Biomass: Wood and waste [b]	Electricity imports [c]	Total energy [d]
	Prices in dollars per million Btu									
1970	—	0.33	0.36	—	0.40	0.40	0.19	0.65	—	0.34
1975	—	1.05	2.43	—	2.50	2.50	0.21	0.92	—	1.82
1980	—	3.53	5.84	—	5.03	5.06	0.49	1.74	6.94	3.99
1985	—	4.47	5.69	—	5.31	5.33	0.96	0.79	9.34	3.80
1990	1.49	3.03	4.57	0.80	4.36	4.02	0.72	—	8.37	2.25
1995	1.36	2.22	4.62	0.69	2.16	1.13	0.43	2.59	6.21	1.69
2000	1.36	5.81	6.19	0.43	6.16	1.72	0.45	1.48	16.78	4.21
2005	1.43	7.85	9.91	0.50	5.59	1.07	0.44	3.77	16.53	5.22
2006	1.68	6.50	13.84	0.90	7.10	1.63	0.45	4.17	17.32	4.67
2007	1.85	6.52	16.19	1.41	7.85	2.12	0.47	7.78	18.25	4.95
2008	2.19	8.00	22.58	1.56	16.68	2.75	0.48	2.66	18.28	5.79
2009	2.24	4.32	14.38	1.56	12.41	2.08	0.54	3.25	12.10	3.28
2010	2.22	4.86	18.44	2.19	16.95	2.80	0.58	3.50	13.31	3.60
2011	2.21	4.61	23.74	2.88	25.21	3.59	0.67	3.60	11.53	3.29
2012	1.89	3.59	26.89	2.13	—	5.75	0.73	2.89	9.51	3.22
2013	1.96	4.40	23.23	2.11	—	14.10	0.71	2.26	11.49	3.89
2014	2.49	5.05	19.63	1.94	—	12.71	0.65	2.73	13.31	4.51
2015	—	3.29	11.19	—	12.76	11.21	0.65	2.62	10.54	3.10
2016	—	3.06	11.43	—	—	11.43	0.65	2.54	8.74	2.88
2017	—	3.64	13.87	—	—	13.87	0.67	2.40	9.18	3.25
2018	—	4.49	17.24	—	—	17.24	0.68	2.22	10.74	3.68
2019	—	3.74	14.80	—	—	14.80	0.67	2.33	9.20	3.17
2020	—	3.26	13.73	—	—	13.73	0.65	1.80	8.38	2.74
2021	—	5.39	16.50	—	—	16.50	0.71	2.39	12.82	4.46
2022	—	9.87	23.43	—	—	23.43	R 0.60	2.69	19.84	7.76
2023	—	8.33	25.90	—	—	25.90	0.57	2.93	18.72	6.66
	Expenditures in million dollars									
1970	—	220.1	0.2	—	54.7	54.9	6.7	0.3	—	282.1
1975	—	305.2	3.4	—	1,230.5	1,234.0	14.4	0.2	—	1,553.7
1980	—	1,925.0	86.2	—	1,980.8	2,067.0	26.1	0.4	2.4	4,020.8
1985	—	3,130.1	10.2	—	154.2	164.4	200.4	(s)	133.8	3,628.8
1990	28.1	1,966.9	7.0	3.9	196.4	207.4	249.6	—	146.9	2,599.0
1995	31.8	1,378.2	2.9	10.9	10.0	23.7	135.1	162.0	41.7	1,772.5
2000	30.1	5,295.7	32.4	8.6	3.3	44.4	164.9	103.0	315.4	5,953.3
2005	29.6	5,568.5	13.9	11.0	0.1	25.1	167.2	275.4	317.6	6,383.3
2006	36.8	5,172.3	16.2	18.3	0.7	35.2	148.5	312.6	173.5	5,878.9
2007	43.2	5,606.4	15.8	28.7	0.9	45.3	176.8	555.7	360.9	6,788.4
2008	51.7	7,060.2	22.8	27.3	0.9	51.1	161.8	198.7	334.9	7,858.4
2009	47.2	3,591.6	9.6	26.2	0.7	36.5	179.7	251.5	125.8	4,232.4
2010	48.3	3,673.1	8.0	27.0	0.9	36.0	196.7	276.5	157.7	4,388.3
2011	43.5	2,904.0	8.7	30.4	0.2	39.3	256.0	248.2	246.6	3,737.7
2012	24.9	3,147.7	9.5	4.4	—	13.9	140.9	217.2	288.1	3,832.6
2013	12.1	3,740.5	8.3	0.6	—	8.9	133.1	167.7	431.5	4,493.8
2014	17.1	4,340.5	7.4	0.5	—	7.9	115.2	213.8	561.7	5,256.3
2015	—	2,740.2	4.3	—	(s)	4.4	126.7	198.4	495.7	3,565.3
2016	—	2,104.6	4.3	—	—	4.3	127.9	167.1	505.8	2,909.7
2017	—	2,259.7	5.4	—	—	5.4	124.9	155.7	460.7	3,006.5
2018	—	2,852.1	6.5	—	—	6.5	129.1	145.6	232.0	3,365.4
2019	—	2,199.5	5.8	—	—	5.8	113.6	155.8	209.5	2,684.2
2020	—	2,070.6	4.9	—	—	4.9	110.5	110.4	122.8	2,419.3
2021	—	3,598.7	6.5	—	—	6.5	121.9	140.6	214.2	4,081.8
2022	—	6,595.4	7.9	—	—	7.9	111.1	154.5	313.7	7,182.6
2023	—	5,455.5	8.4	—	—	8.4	106.3	158.0	362.5	6,090.8

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[c] Electricity imported from Canada and Mexico.
[d] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET1. Primary energy, electricity, and total energy price and expenditure estimates, selected years, 1970-2023, Colorado

	Primary energy														Electric power sector [i,k,l]	Electricity [m]	Total energy [h,i,j]
	Coal			Natural gas [a]	Petroleum							Nuclear fuel	Biomass				
	Coking coal	Steam coal	Total		Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total		Wood and waste [g,h]	Total [h,i,j,k]			
Year	Prices in dollars per million Btu																
1970	0.43	0.30	0.34	0.48	1.04	1.58	0.76	2.72	0.44	1.13	1.88	—	1.55	1.03	0.25	6.09	1.52
1975	1.38	0.53	0.68	0.98	2.30	3.05	2.12	4.67	1.59	2.85	3.55	—	1.67	2.02	0.60	7.95	2.92
1980	1.97	0.89	1.00	2.98	6.45	6.00	6.59	9.36	3.88	5.99	7.95	0.21	2.91	4.32	1.12	12.94	6.48
1985	—	1.17	1.17	4.71	6.56	6.53	5.94	9.28	3.80	6.91	8.08	—	3.38	4.75	1.21	17.88	8.23
1990	—	1.07	1.07	3.87	7.94	6.75	5.59	9.29	2.94	5.58	8.24	—	4.14	4.38	1.11	17.31	8.15
1995	—	1.06	1.06	3.87	7.61	8.15	4.04	9.80	2.99	5.93	8.36	—	3.50	4.59	1.10	18.00	8.41
2000	—	0.93	0.93	5.22	10.00	12.14	6.67	12.42	5.66	6.33	10.89	—	5.39	5.92	1.41	17.27	10.25
2005	—	1.07	1.07	8.74	16.90	17.76	12.72	18.32	—	10.27	16.81	—	8.11	9.46	2.30	22.46	15.15
2006	—	1.30	1.30	9.24	19.35	20.99	14.94	20.72	8.50	11.99	19.18	—	9.14	10.67	2.23	22.37	16.94
2007	—	1.27	1.27	6.80	20.85	22.88	16.27	22.98	—	11.54	20.89	—	10.08	10.55	2.01	22.80	17.06
2008	—	1.46	1.46	8.50	26.48	26.13	22.69	26.09	12.23	15.50	25.27	—	12.21	12.67	2.66	25.25	19.81
2009	—	1.60	1.60	6.64	16.67	21.17	12.54	18.61	10.51	21.30	17.56	—	9.58	9.32	2.24	24.44	15.52
2010	—	1.59	1.59	6.60	20.40	22.18	16.20	21.99	—	R 23.46	R 20.94	—	11.36	R 10.58	2.29	26.90	R 17.53
2011	—	1.73	1.73	6.79	26.35	25.76	22.41	27.95	—	R 29.57	R 26.81	—	12.88	R 13.11	2.33	27.61	R 21.31
2012	—	1.86	1.86	6.32	27.05	22.45	23.04	28.65	—	R 31.05	R 27.39	—	13.93	R 13.29	2.28	27.63	R 21.83
2013	—	1.93	1.93	6.38	26.36	22.57	22.35	28.17	—	R 29.64	R 26.82	—	13.65	R 13.02	2.50	29.01	R 21.17
2014	—	1.95	1.95	7.11	25.83	25.76	20.94	27.52	—	R 29.87	R 26.30	—	R 12.48	R 13.30	2.69	29.52	R 21.31
2015	—	1.85	1.85	R 6.03	17.50	17.41	12.26	19.57	—	R 28.55	R 18.52	—	R 9.65	R 9.96	2.22	29.18	R 17.19
2016	—	1.87	1.87	5.24	R 15.15	16.80	9.78	17.39	—	R 25.40	R 16.22	—	R 7.35	R 8.88	2.17	28.85	R 15.72
2017	—	1.78	1.78	5.79	R 17.67	19.99	12.19	19.74	—	28.28	18.48	—	R 8.00	10.05	2.20	29.32	17.16
2018	—	1.65	1.65	R 5.48	21.18	21.24	15.81	22.33	—	27.67	21.31	—	R 8.81	11.29	2.30	29.41	18.47
2019	—	1.76	1.76	R 5.36	19.72	17.92	14.64	21.62	—	R 27.99	20.30	—	R 8.83	10.88	2.22	29.87	R 17.75
2020	—	1.71	1.71	R 4.89	R 16.07	15.91	10.78	18.98	—	R 25.86	17.69	—	R 5.63	9.40	2.17	30.16	R 16.47
2021	—	1.61	1.61	7.75	22.34	21.95	15.26	26.55	—	R 28.24	23.96	—	R 6.96	13.37	3.58	32.00	R 20.64
2022	—	1.93	1.93	R 9.87	R 33.10	23.66	26.89	31.65	—	R 34.93	R 31.21	—	R 10.93	R 17.88	3.82	34.49	R 25.85
2023	—	2.13	2.13	8.09	28.49	21.34	21.46	29.83	—	32.36	28.11	—	10.09	15.97	3.03	34.53	23.85
	Expenditures in million dollars																
1970	12.0	26.8	38.8	128.2	30.9	27.5	32.0	372.5	3.9	35.5	502.3	—	4.0	673.3	-30.6	222.3	865.0
1975	39.5	69.0	108.4	262.9	118.1	56.9	85.7	782.3	32.7	61.8	1,137.4	—	4.4	1,513.1	-105.4	426.0	1,833.7
1980	50.2	197.5	247.8	706.8	422.1	85.3	175.9	1,685.6	43.6	145.2	2,557.7	1.5	5.0	3,518.7	-272.5	918.2	4,164.4
1985	—	349.1	349.1	931.2	349.5	54.5	264.1	1,742.8	3.7	184.3	2,599.0	—	8.6	3,902.3	-342.6	1,608.3	5,167.9
1990	—	361.8	361.8	838.7	467.8	74.5	193.0	1,735.8	(s)	151.4	2,622.4	—	17.4	3,847.7	-371.2	1,800.4	5,276.9
1995	—	363.3	363.3	981.2	539.8	118.8	169.9	2,108.7	0.1	177.5	3,114.7	—	14.4	4,473.7	-386.4	2,141.9	6,229.3
2000	—	361.3	361.3	1,651.5	905.7	284.9	286.6	3,063.4	0.3	201.7	4,742.6	—	24.2	6,780.2	-626.8	2,507.8	8,661.1
2005	—	414.1	414.1	3,542.9	1,727.1	368.9	888.4	4,881.3	—	230.5	8,096.3	—	32.0	12,085.6	-1,091.0	3,660.2	14,654.8
2006	—	510.7	510.7	3,536.9	2,129.0	511.4	1,100.2	5,554.7	1.5	265.2	9,562.1	—	33.0	13,642.7	-1,080.7	3,747.6	16,309.6
2007	—	494.9	494.9	2,977.7	2,379.7	500.9	1,248.4	6,174.0	—	303.0	10,606.1	—	39.9	14,118.6	-1,030.9	3,942.8	17,030.5
2008	—	562.9	562.9	3,600.7	3,044.6	477.3	1,693.3	6,705.1	0.2	276.7	12,197.1	—	54.5	16,415.3	-1,289.3	4,434.4	19,560.4
2009	—	560.1	560.1	2,760.3	R 1,805.3	323.2	770.9	4,774.8	(s)	463.6	R 8,137.8	—	52.0	R 11,510.3	-1,031.8	4,196.1	R 14,674.6
2010	—	609.9	609.9	2,574.0	R 2,275.3	345.9	1,049.8	5,696.9	—	R 716.7	R 10,084.5	—	65.7	R 13,334.1	-1,066.3	4,786.2	R 17,054.0
2011	—	637.0	637.0	2,334.4	R 2,938.7	421.3	1,415.9	7,132.8	—	R 575.7	R 12,484.3	—	73.4	R 15,529.2	-1,053.4	4,963.2	R 19,439.0
2012	—	689.4	689.4	2,064.6	R 2,983.7	335.8	1,459.1	7,305.9	—	R 553.4	R 12,637.9	—	68.5	R 15,460.4	-1,036.5	4,987.6	R 19,411.5
2013	—	703.4	703.4	R 2,357.4	R 2,877.1	402.8	1,394.9	7,345.1	—	R 578.1	R 12,598.1	—	86.5	R 15,745.4	-1,127.6	5,258.2	R 19,876.0
2014	—	683.5	683.5	R 2,686.7	R 3,075.9	451.0	1,323.3	7,305.9	—	R 651.6	R 12,807.7	—	R 87.8	R 16,265.7	-1,197.1	5,345.7	R 20,414.2
2015	—	630.4	630.4	R 2,193.8	R 1,957.3	279.2	755.6	5,425.7	—	R 650.3	R 9,068.2	—	R 66.4	R 11,958.8	-961.5	5,356.3	R 16,353.6
2016	—	601.4	601.4	R 1,947.6	R 1,572.8	274.8	657.9	4,933.2	—	R 566.5	R 8,005.2	—	R 56.6	R 10,610.8	-915.9	5,362.7	R 15,057.6
2017	—	563.1	563.1	R 2,156.7	R 2,024.0	313.4	876.8	5,554.3	—	483.0	R 9,251.6	—	R 62.6	R 12,034.0	-917.9	5,448.8	R 16,564.8
2018	—	469.8	469.8	R 2,333.2	R 2,660.1	360.9	R 1,187.3	6,342.9	—	601.5	R 11,152.7	—	R 70.3	R 14,026.1	-968.2	5,628.5	R 18,686.4
2019	—	480.3	480.3	R 2,477.3	R 2,521.6	351.7	R 1,143.4	6,249.1	—	R 653.6	R 10,919.4	—	R 78.7	R 13,955.7	-925.5	5,721.7	R 18,751.9
2020	—	371.1	371.1	R 2,182.7	R 1,855.6	280.8	R 465.5	4,681.3	—	R 623.4	R 7,906.7	—	R 29.4	R 10,489.9	-803.6	5,728.9	R 15,415.2
2021	—	407.5	407.5	R 3,260.7	R 2,832.3	392.5	R 996.4	7,241.5	—	R 681.4	R 12,144.0	—	R 36.4	R 15,848.6	-1,354.6	6,113.2	R 20,607.3
2022	—	449.1	449.1	R 4,356.8	R 4,123.8	468.1	R 1,985.2	9,590.3	—	R 916.5	R 17,083.9	—	R 63.7	R 21,953.4	-1,410.2	6,633.6	R 27,176.8
2023	—	436.3	436.3	3,595.7	3,556.2	369.2	1,663.4	8,376.9	—	776.5	14,742.2	—	51.9	18,826.1	-1,059.3	6,510.1	24,276.9

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[l] Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
[m] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET2. Total end-use energy price and expenditure estimates, selected years, 1970-2023, Colorado

Year	Primary energy											Electricity [k]	Total energy [h,i,j]
			Petroleum							Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g,h]	Total [h,i,j]		
	Prices in dollars per million Btu												
1970	0.45	0.53	1.04	1.58	0.76	2.72	0.46	1.13	1.89	1.55	1.21	6.09	1.52
1975	1.17	1.08	2.29	3.05	2.12	4.67	1.46	2.85	3.59	1.67	2.45	7.95	2.92
1980	1.65	3.04	6.45	6.00	6.59	9.36	3.82	5.99	7.97	2.91	5.68	12.94	6.48
1985	1.36	4.74	6.57	6.53	5.94	9.28	3.79	6.91	8.09	3.41	6.61	17.88	8.23
1990	1.29	3.98	7.95	6.75	5.59	9.29	2.40	5.58	8.24	4.26	6.40	17.31	8.15
1995	1.21	4.10	7.62	8.15	4.04	9.80	2.25	5.93	8.36	3.57	6.57	18.00	8.41
2000	1.13	5.54	10.04	12.14	6.67	12.42	—	6.33	10.90	5.62	8.80	17.27	10.25
2005	1.58	9.23	16.90	17.76	12.72	18.32	—	10.27	16.81	8.95	13.67	22.46	15.15
2006	1.81	10.34	19.36	20.99	14.94	20.72	4.91	11.99	19.19	10.25	15.80	22.37	16.94
2007	1.92	7.89	20.85	22.88	16.27	22.98	—	11.54	20.90	11.33	15.86	22.80	17.06
2008	2.22	9.11	26.49	26.13	22.69	26.09	12.23	15.50	25.27	14.00	18.63	25.25	19.81
2009	2.63	7.66	16.67	21.17	12.54	18.61	—	21.30	17.56	10.60	13.54	24.44	15.52
2010	2.23	7.10	20.41	22.18	16.20	21.99	—	R 23.46	R 20.94	12.40	R 15.44	26.90	R 17.53
2011	2.31	7.47	26.36	25.76	22.41	27.95	—	R 29.57	R 26.81	14.82	R 19.76	27.61	R 21.31
2012	2.92	7.19	27.05	22.45	23.04	28.65	—	R 31.05	R 27.39	16.38	R 20.35	27.63	R 21.83
2013	2.93	6.96	26.36	22.57	22.35	28.17	—	R 29.64	R 26.82	16.19	R 19.29	29.01	R 21.17
2014	2.93	7.81	25.84	25.76	20.94	27.52	—	R 29.87	R 26.30	R 15.90	R 19.40	29.52	R 21.31
2015	2.82	6.97	17.50	17.41	12.26	19.57	—	R 28.55	R 18.52	11.02	R 14.32	29.18	R 17.19
2016	3.03	R 6.08	15.15	16.80	9.78	17.39	—	R 25.40	R 16.22	R 9.41	R 12.56	28.85	R 15.72
2017	2.51	6.72	17.67	19.99	12.19	19.74	—	28.28	18.48	R 10.45	R 14.27	29.32	17.16
2018	2.69	6.37	R 21.19	21.24	15.81	22.33	—	27.67	21.31	R 11.51	R 15.92	29.41	18.47
2019	2.61	R 6.41	19.72	17.92	14.64	21.62	—	R 27.99	20.30	11.14	15.06	29.87	R 17.75
2020	2.51	R 5.97	16.07	15.91	10.78	18.98	—	R 25.86	17.69	R 8.90	R 12.98	30.16	R 16.47
2021	2.53	R 7.87	22.35	21.95	15.26	26.55	—	R 28.24	23.97	R 10.65	R 17.96	32.00	R 20.64
2022	2.91	R 11.16	R 33.13	23.66	26.89	31.65	—	R 34.93	R 31.21	R 16.22	R 23.92	34.49	R 25.85
2023	3.37	10.10	28.53	21.34	21.46	29.83	—	32.36	28.12	14.69	21.43	34.53	23.85
	Expenditures in million dollars												
1970	20.9	116.2	30.8	27.5	32.0	372.5	3.4	35.5	501.7	4.0	642.7	222.3	865.0
1975	53.9	232.0	108.9	56.9	85.7	782.3	21.9	61.8	1,117.4	4.4	1,407.7	426.0	1,833.7
1980	74.5	624.0	411.8	85.3	175.9	1,685.6	38.9	145.2	2,542.6	5.0	3,246.2	918.2	4,164.4
1985	27.8	914.0	345.6	54.5	264.1	1,742.8	3.5	184.3	2,594.9	8.5	3,559.6	1,608.3	5,167.9
1990	21.5	809.5	466.2	74.5	193.0	1,735.8	(s)	151.4	2,620.9	17.2	3,476.5	1,800.4	5,276.9
1995	19.7	939.5	539.0	118.8	169.9	2,108.7	(s)	177.5	3,113.8	14.4	4,087.4	2,141.9	6,229.3
2000	12.4	1,382.3	898.0	284.9	286.6	3,063.4	—	201.7	4,734.7	24.0	6,153.4	2,507.8	8,661.1
2005	15.7	2,856.5	1,722.4	368.9	888.4	4,881.3	—	230.5	8,091.6	30.9	10,994.6	3,660.2	14,654.8
2006	14.5	2,958.9	2,125.3	511.4	1,100.2	5,554.7	(s)	265.2	9,556.8	31.8	12,562.0	3,747.6	16,309.6
2007	10.8	2,439.2	2,372.8	500.9	1,248.4	6,174.0	—	303.0	10,599.2	38.5	13,087.8	3,942.8	17,030.5
2008	27.5	2,853.4	3,040.0	477.3	1,693.3	6,705.1	0.2	276.7	12,192.6	52.6	15,126.0	4,434.4	19,560.4
2009	25.6	2,268.2	R 1,803.5	323.2	770.9	4,774.8	—	463.6	R 8,136.0	48.7	R 10,478.5	4,196.1	R 14,674.6
2010	30.1	2,095.9	R 2,271.5	345.9	1,049.8	5,696.9	—	R 716.7	R 10,080.8	61.0	R 12,267.9	4,786.2	R 17,054.0
2011	15.0	1,911.0	R 2,932.8	421.3	1,415.9	7,132.8	—	R 575.7	R 12,478.5	71.2	R 14,475.7	4,963.2	R 19,439.0
2012	18.9	1,703.8	R 2,980.4	335.8	1,459.1	7,305.9	—	R 553.4	R 12,634.5	66.7	R 14,423.9	4,987.6	R 19,411.5
2013	22.4	R 1,915.9	R 2,874.6	402.8	1,394.9	7,345.1	—	R 578.1	R 12,595.6	83.9	R 14,617.8	5,258.2	R 19,876.0
2014	25.0	R 2,156.5	R 3,072.6	451.0	1,323.3	7,305.9	—	R 651.6	R 12,804.3	R 82.8	R 15,068.5	5,345.7	R 20,414.2
2015	23.0	R 1,844.0	R 1,956.1	279.2	755.6	5,425.7	—	R 650.3	R 9,066.9	R 63.5	R 10,997.3	5,356.3	R 16,353.6
2016	20.0	R 1,620.0	R 1,571.8	274.8	657.9	4,933.2	—	R 566.5	R 8,004.2	R 50.7	R 9,694.9	5,362.7	R 15,057.6
2017	16.1	R 1,793.0	R 2,022.5	313.4	876.8	5,554.3	—	483.0	R 9,250.0	R 56.9	R 11,116.0	5,448.8	R 16,564.8
2018	10.3	R 1,832.4	R 2,657.5	360.9	R 1,187.3	6,342.9	—	601.5	R 11,150.0	R 65.1	R 13,057.9	5,628.5	R 18,686.4
2019	11.2	R 2,028.4	R 2,519.5	351.7	R 1,143.4	6,249.1	—	R 653.6	R 10,917.3	R 73.3	R 13,030.2	5,721.7	R 18,751.9
2020	9.7	R 1,746.2	R 1,854.3	280.8	R 465.5	4,681.3	—	R 623.4	R 7,905.3	R 25.1	R 9,686.3	5,728.9	R 15,415.2
2021	8.8	R 2,317.5	R 2,825.3	392.5	R 996.4	7,241.5	—	R 681.4	R 12,137.0	R 30.8	R 14,494.1	6,113.2	R 20,607.3
2022	10.5	R 3,401.3	R 4,113.8	468.1	R 1,985.2	9,590.3	—	R 916.5	R 17,073.9	R 57.6	R 20,543.2	6,633.6	R 27,176.8
2023	10.0	3,046.1	3,478.7	369.2	1,663.4	8,376.9	—	776.5	14,664.7	46.0	17,766.8	6,510.1	24,276.9

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. · Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2023, Colorado

Year	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
	Prices in dollars per million Btu									
1970	0.90	0.74	1.28	1.76	1.51	1.72	0.72	0.88	7.73	1.70
1975	1.58	1.29	2.84	3.33	2.96	3.26	1.43	1.54	9.94	2.76
1980	2.54	3.26	6.96	7.32	7.98	7.31	3.66	3.55	15.00	5.72
1985	2.83	5.11	6.91	6.55	8.54	6.67	4.14	5.17	20.28	8.71
1990	2.41	4.56	6.19	7.02	5.87	6.98	4.75	4.72	20.57	8.62
1995	2.24	4.73	3.94	8.46	6.04	8.32	3.86	4.97	21.75	9.12
2000	2.13	6.15	8.65	11.83	8.95	11.68	5.88	6.62	21.41	10.57
2005	2.45	10.01	15.56	17.28	14.93	17.24	9.20	10.65	26.56	15.11
2006	3.73	10.14	17.68	19.53	20.88	19.54	10.60	10.86	26.44	15.51
2007	2.94	8.60	19.36	21.47	22.88	21.46	11.71	9.67	27.12	14.69
2008	—	9.62	23.66	25.74	28.37	25.74	14.42	11.19	29.68	16.42
2009	—	8.67	15.35	20.95	23.68	20.93	10.83	9.77	29.30	15.38
2010	—	7.99	19.45	22.42	25.39	22.42	12.78	9.32	32.35	16.04
2011	—	8.00	25.11	25.78	26.09	25.78	15.36	9.63	33.02	16.49
2012	—	7.98	25.77	23.63	27.33	23.64	17.11	9.52	33.58	17.12
2013	—	7.59	25.14	23.39	27.02	23.40	16.76	9.18	34.96	16.58
2014	—	8.51	23.88	27.59	26.88	27.54	16.34	10.23	35.70	17.50
2015	—	7.83	14.25	20.68	16.47	20.52	11.26	8.91	35.52	16.94
2016	—	6.95	12.81	19.73	13.13	19.68	9.62	8.02	35.39	16.44
2017	—	7.63	17.23	23.02	16.43	22.92	10.76	8.87	35.65	17.20
2018	—	7.23	19.34	23.93	23.73	23.87	11.90	8.65	35.60	16.73
2019	—	7.20	18.63	20.92	22.16	20.89	11.46	8.40	35.68	15.95
2020	—	6.75	15.30	18.32	14.39	18.24	9.47	R 7.66	36.22	R 16.33
2021	—	8.62	18.27	23.98	22.73	23.92	11.37	R 9.83	38.31	R 18.64
2022	—	12.16	28.23	26.64	29.66	26.66	R 17.58	R 13.33	41.59	R 21.81
2023	—	11.38	25.84	24.67	25.75	24.69	16.07	12.42	41.90	21.26
	Expenditures in million dollars									
1970	2.6	59.4	1.3	20.8	1.0	23.0	0.3	85.3	101.8	187.1
1975	0.2	115.6	4.7	36.5	0.6	41.8	0.8	158.4	174.4	332.8
1980	1.1	290.6	3.2	46.9	1.0	51.1	4.0	346.7	342.5	689.3
1985	2.1	459.9	3.8	34.9	2.4	41.1	7.3	510.4	613.3	1,123.7
1990	0.6	420.3	1.0	45.6	0.7	47.4	14.6	482.9	687.1	1,170.0
1995	0.1	500.3	0.8	70.9	0.7	72.4	11.7	584.5	839.0	1,423.5
2000	0.4	714.5	3.1	127.9	1.5	132.5	20.3	867.7	1,024.8	1,892.5
2005	0.6	1,278.6	0.8	223.8	3.0	227.6	26.5	1,533.3	1,489.5	3,022.8
2006	0.5	1,246.4	1.0	200.5	1.9	203.4	27.0	1,477.2	1,529.0	3,006.3
2007	0.1	1,157.8	0.9	250.3	0.8	252.0	33.0	1,442.9	1,631.7	3,074.6
2008	—	1,308.7	1.1	356.4	0.6	358.2	45.5	1,712.4	1,794.4	3,506.8
2009	—	1,135.1	1.0	259.1	1.0	261.0	42.5	1,438.6	1,740.5	3,179.1
2010	—	1,066.9	1.2	277.2	0.9	279.2	53.7	1,399.8	1,997.9	3,397.6
2011	—	1,073.5	2.1	308.9	0.3	311.3	62.6	1,447.4	2,059.2	3,506.6
2012	—	958.0	2.0	263.5	0.1	265.6	58.3	1,281.8	2,087.9	3,369.7
2013	—	1,059.2	2.0	308.0	0.3	310.2	74.5	1,444.0	2,210.3	3,654.3
2014	—	1,174.4	3.9	331.7	0.1	335.7	73.5	1,583.7	2,203.8	3,787.5
2015	—	1,012.0	4.0	222.3	0.1	226.4	55.5	R 1,293.9	2,228.0	3,521.8
2016	—	896.4	0.8	219.0	0.1	219.9	R 43.5	R 1,159.8	2,274.0	R 3,433.8
2017	—	958.2	3.1	238.0	0.1	241.2	R 48.5	R 1,247.9	2,264.6	R 3,512.4
2018	—	991.9	3.0	277.8	0.1	280.8	R 56.9	R 1,329.6	2,342.8	R 3,672.4
2019	—	1,108.7	3.9	275.9	0.2	279.9	R 64.4	R 1,453.1	2,362.6	R 3,815.7
2020	—	986.2	4.8	217.8	0.1	222.6	R 20.3	R 1,229.1	2,531.3	R 3,760.4
2021	—	1,232.8	2.4	283.1	0.1	285.6	R 25.2	R 1,543.5	2,696.1	R 4,239.6
2022	—	1,810.9	3.8	320.4	0.1	324.3	R 49.0	R 2,184.3	2,922.5	R 5,106.7
2023	—	1,653.1	3.8	282.3	0.3	286.4	38.1	1,977.6	2,859.3	4,836.9

[a] Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2023, Colorado

Year	Primary energy										Electricity [j]	Total energy [g,h,i]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f,g]	Total [g,h,i]		
	Prices in dollars per million Btu											
1970	0.39	0.59	1.06	1.16	0.89	2.72	0.38	1.27	0.72	0.63	5.97	1.67
1975	0.81	1.10	2.49	2.51	2.11	4.67	1.93	2.69	1.43	1.20	7.95	2.73
1980	1.20	3.03	6.48	4.58	5.65	9.36	4.35	7.00	3.66	3.25	14.37	6.07
1985	1.31	4.61	5.93	5.91	8.54	9.28	4.07	6.53	4.14	4.64	18.34	9.48
1990	1.28	3.98	5.70	5.77	5.87	9.29	—	6.68	4.16	4.14	16.89	9.27
1995	1.21	4.17	4.71	7.79	6.04	9.80	—	5.76	3.10	4.28	18.13	9.76
2000	1.11	5.38	7.12	11.63	8.95	12.42	—	9.13	5.36	5.62	16.62	10.95
2005	1.56	9.13	13.90	16.74	14.93	18.32	—	15.17	9.20	9.39	22.33	15.59
2006	1.78	9.33	16.37	19.48	20.88	20.72	—	17.42	10.60	9.84	22.00	15.91
2007	1.91	7.88	17.74	21.91	22.88	22.98	—	19.60	11.71	8.65	22.33	15.47
2008	2.47	8.87	23.70	25.05	28.37	26.09	—	24.37	14.42	9.40	25.13	16.76
2009	2.95	7.45	14.00	19.60	23.68	18.61	—	15.06	10.83	8.07	23.89	15.32
2010	2.56	7.45	17.80	19.81	25.39	21.99	—	18.41	12.78	8.28	26.77	17.11
2011	2.58	7.60	23.67	24.85	26.09	27.95	—	24.15	15.36	9.54	27.67	18.45
2012	3.51	7.30	24.29	18.43	27.33	28.65	—	22.73	17.11	9.07	27.53	18.80
2013	3.72	7.02	23.83	19.52	27.02	28.17	—	22.67	16.76	8.62	28.90	18.80
2014	3.64	7.80	22.50	20.89	26.88	27.52	—	22.12	16.34	9.39	29.54	19.47
2015	3.62	7.08	13.25	10.82	16.47	19.57	—	15.98	11.26	8.90	28.96	R 18.75
2016	3.93	6.07	11.16	10.70	13.13	17.39	—	14.59	9.62	7.64	28.13	R 17.89
2017	3.27	6.77	13.67	14.17	16.43	19.74	—	16.61	10.76	8.94	28.99	18.83
2018	—	6.39	17.20	15.56	23.73	22.33	—	19.58	11.90	8.96	29.36	18.95
2019	—	6.41	15.67	11.91	22.16	21.62	—	17.48	11.46	8.71	30.58	R 18.77
2020	3.90	5.83	10.62	11.11	14.39	18.98	—	R 14.82	9.47	R 7.65	30.16	R 18.23
2021	3.79	7.54	17.97	18.07	22.73	26.55	—	22.10	11.37	10.51	31.78	R 20.53
2022	3.75	10.88	28.06	19.17	29.66	31.65	—	27.37	R 17.58	R 14.37	33.95	R 23.50
2023	3.60	9.90	22.22	14.94	25.75	29.83	—	24.12	16.07	12.85	34.12	22.64
	Expenditures in million dollars											
1970	0.9	33.7	0.9	2.5	0.7	1.8	0.1	5.9	(s)	40.5	93.5	134.0
1975	0.2	75.5	3.4	4.9	0.6	2.7	0.9	12.5	(s)	88.3	170.3	258.6
1980	2.0	201.9	12.8	5.3	0.2	15.4	0.1	33.7	0.1	237.7	356.8	594.5
1985	3.4	317.8	21.1	5.6	0.8	8.6	(s)	36.1	0.2	357.5	772.2	1,129.7
1990	1.3	264.8	14.7	6.7	0.3	12.9	—	34.6	1.7	302.4	831.2	1,133.6
1995	0.5	282.0	19.2	11.7	0.2	3.0	—	34.1	1.8	318.3	884.4	1,202.8
2000	1.7	326.9	25.1	22.5	0.4	8.3	—	56.3	3.5	388.4	1,078.8	1,467.2
2005	4.3	582.5	50.5	42.2	2.6	3.9	—	99.3	4.2	690.3	1,512.1	2,202.4
2006	2.4	575.2	62.5	28.0	1.9	4.5	—	97.0	4.5	679.1	1,512.4	2,191.6
2007	0.5	512.2	45.9	37.8	0.6	5.1	—	89.4	5.3	607.4	1,562.3	2,169.7
2008	17.2	592.9	69.1	56.5	0.4	5.7	—	131.7	6.9	748.7	1,761.9	2,510.6
2009	19.3	472.1	115.8	33.7	0.5	4.0	—	154.0	6.0	651.3	1,631.1	2,282.5
2010	15.5	437.0	103.6	37.6	0.7	4.7	—	146.6	7.0	606.2	1,790.0	2,396.2
2011	8.2	437.8	138.5	70.6	0.5	6.1	—	215.7	8.1	669.9	1,878.0	2,547.8
2012	0.8	392.6	111.2	36.5	0.2	6.3	—	154.2	7.9	555.5	1,878.4	2,433.9
2013	0.4	426.8	R 104.8	39.3	0.3	6.4	—	R 150.8	8.9	R 586.9	1,982.0	R 2,569.0
2014	0.5	472.8	R 106.4	50.1	0.2	5.9	—	R 162.6	R 8.7	R 644.6	2,029.1	R 2,673.7
2015	0.3	403.1	R 68.4	24.0	0.1	139.6	—	R 232.1	R 7.4	R 643.0	2,016.6	R 2,659.5
2016	0.1	348.4	R 34.3	26.6	0.1	125.3	—	R 186.2	R 6.7	R 541.5	1,996.0	R 2,537.5
2017	(s)	378.1	R 70.2	45.4	(s)	144.3	—	R 260.0	R 7.7	R 645.8	2,041.4	R 2,687.3
2018	—	382.3	R 70.9	41.5	0.1	166.7	—	R 279.2	R 7.4	R 668.9	2,105.7	R 2,774.6
2019	—	427.3	R 96.5	42.7	0.1	162.5	—	R 301.9	R 8.1	R 737.3	2,202.7	R 2,940.0
2020	0.1	356.9	R 47.7	37.8	0.1	143.7	—	R 229.2	R 4.0	R 590.2	2,062.5	R 2,652.7
2021	(s)	471.7	R 86.1	63.9	0.1	202.8	—	352.8	R 4.8	R 829.4	2,232.3	R 3,061.7
2022	(s)	703.2	R 136.4	86.5	0.1	248.8	—	R 471.8	R 7.5	R 1,182.5	2,439.7	R 3,622.2
2023	(s)	647.6	117.3	56.9	0.2	235.0	—	409.5	6.9	1,064.0	2,409.3	3,473.2

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[g] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[j] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: Expenditure totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2023, Colorado

Year	Primary energy												Electricity [i]	Total energy [f,g,h]
	Coal			Natural gas [a]	Petroleum						Biomass	Total [f,g,h]		
	Coking coal	Steam coal	Total		Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e,f]			
	Prices in dollars per million Btu													
1970	0.43	0.39	0.42	0.29	0.83	1.23	2.72	0.47	0.80	0.99	1.73	0.54	3.50	0.67
1975	1.38	0.81	1.17	0.72	1.96	2.73	4.67	1.43	2.34	2.22	1.73	1.41	5.55	1.74
1980	1.97	1.20	1.66	2.65	5.33	4.99	9.36	3.82	4.77	5.11	1.53	3.37	9.40	4.15
1985	—	1.31	1.31	4.01	6.33	6.64	9.28	4.07	5.72	6.21	1.53	4.46	12.67	5.77
1990	—	1.28	1.28	2.77	6.19	6.42	9.29	2.46	3.86	5.12	1.66	3.54	13.16	5.17
1995	—	1.21	1.21	2.82	5.37	7.50	9.80	2.26	4.46	5.32	2.10	3.64	13.23	5.61
2000	—	1.11	1.11	4.69	6.97	12.49	12.42	—	4.67	7.10	1.32	5.48	12.47	6.78
2005	—	1.56	1.56	8.45	14.51	19.33	18.32	—	7.11	12.78	1.64	9.46	16.81	10.79
2006	—	1.78	1.78	11.19	17.20	22.35	20.72	4.92	7.98	15.85	1.72	12.55	17.24	13.45
2007	—	1.91	1.91	7.02	18.76	25.01	22.98	—	7.97	15.88	1.73	10.03	17.49	11.47
2008	—	1.89	1.89	8.63	24.66	29.90	26.09	12.23	9.90	20.80	1.73	12.33	19.49	13.82
2009	—	1.96	1.96	6.47	14.36	26.32	18.61	—	18.09	16.57	1.73	9.36	18.72	11.49
2010	—	1.96	1.96	5.74	18.39	23.03	21.99	—	R 20.57	R 19.91	1.72	R 10.27	20.24	R 12.55
2011	—	2.05	2.05	6.23	24.80	27.04	27.95	—	R 24.46	R 25.08	2.41	R 13.70	20.69	R 15.83
2012	—	2.89	2.89	5.58	24.92	19.39	28.65	—	R 25.77	R 25.37	2.41	R 13.17	20.36	R 15.36
2013	—	2.92	2.92	5.71	24.46	20.68	28.17	—	R 24.80	R 24.72	2.41	R 12.53	21.51	R 14.99
2014	—	2.91	2.91	6.54	23.28	22.32	27.52	—	R 25.32	R 24.25	3.06	R 13.16	21.91	R 15.48
2015	—	2.82	2.82	5.44	14.46	10.31	19.57	—	R 24.15	R 18.52	3.06	R 10.25	21.69	R 13.32
2016	—	3.03	3.03	4.62	11.63	10.17	17.39	—	R 20.96	R 16.15	3.06	R 8.64	21.54	R 12.16
2017	—	2.51	2.51	5.27	14.35	13.63	19.74	—	23.00	17.60	3.04	9.44	21.99	12.82
2018	—	2.69	2.69	4.93	17.97	15.01	22.33	—	23.06	19.94	3.05	10.75	21.89	13.63
2019	—	2.61	2.61	4.97	16.11	11.35	21.62	—	R 23.70	R 19.06	3.05	10.31	21.68	13.14
2020	—	2.50	2.50	4.63	11.33	10.54	18.98	—	R 22.11	R 16.61	3.05	R 9.09	21.93	12.50
2021	—	2.53	2.53	6.75	18.18	17.47	26.55	—	R 23.62	R 21.14	3.05	R 12.17	23.46	R 15.04
2022	—	2.91	2.91	9.67	28.52	18.52	31.65	—	R 29.36	R 28.69	3.05	R 16.89	25.30	R 18.95
2023	—	3.37	3.37	8.13	23.21	14.27	29.83	—	27.54	25.36	3.05	14.50	24.91	17.08
	Expenditures in million dollars													
1970	12.0	5.4	17.4	23.1	10.1	3.6	14.8	3.0	21.3	52.9	3.6	97.0	26.9	123.9
1975	39.5	14.0	53.4	40.9	38.6	13.6	21.1	19.8	42.3	135.3	3.6	233.2	81.3	314.5
1980	50.2	21.1	71.3	131.6	123.7	32.4	34.2	38.8	96.8	326.0	0.9	529.8	218.8	748.7
1985	—	22.3	22.3	136.3	75.7	12.0	28.3	(s)	133.7	249.6	1.1	409.6	222.7	632.3
1990	—	19.6	19.6	124.4	97.7	19.8	19.9	(s)	91.0	228.5	0.9	373.5	282.1	655.7
1995	—	19.1	19.1	157.0	86.0	33.2	27.6	(s)	119.5	266.2	0.9	443.2	418.3	861.5
2000	—	10.3	10.3	338.9	132.7	131.3	35.3	—	132.2	431.4	0.2	780.8	403.6	1,184.4
2005	—	10.8	10.8	994.0	308.9	96.8	131.1	—	137.0	673.9	0.2	1,679.0	657.5	2,336.5
2006	—	11.6	11.6	1,136.6	426.1	276.1	154.8	(s)	152.3	1,009.3	0.2	2,157.7	704.2	2,861.9
2007	—	10.2	10.2	768.0	524.0	208.3	95.7	—	187.4	1,015.4	0.2	1,793.9	745.6	2,539.5
2008	—	10.2	10.2	950.2	854.8	52.2	85.7	0.2	151.6	1,144.4	0.2	2,105.1	874.0	2,979.0
2009	—	6.3	6.3	658.8	295.4	24.6	60.7	—	352.5	733.1	0.2	1,398.4	821.0	2,219.4
2010	—	14.6	14.6	589.4	387.6	28.6	105.3	—	R 569.4	R 1,090.9	0.3	R 1,695.2	994.0	R 2,689.1
2011	—	6.8	6.8	397.1	560.8	38.4	133.6	—	R 408.3	R 1,141.1	0.5	R 1,545.4	1,021.1	R 2,566.5
2012	—	18.1	18.1	350.0	571.8	33.2	125.7	—	R 397.0	R 1,127.7	0.5	R 1,496.2	1,016.2	R 2,512.4
2013	—	21.9	21.9	426.6	591.7	51.4	120.8	—	R 421.4	R 1,185.3	0.5	R 1,634.3	1,059.4	R 2,693.7
2014	—	24.5	24.5	505.1	658.5	62.3	102.2	—	R 484.4	R 1,307.4	0.5	R 1,837.5	1,105.9	R 2,943.4
2015	—	22.7	22.7	424.1	351.7	25.5	115.9	—	R 483.7	R 976.9	0.5	R 1,424.2	1,105.3	R 2,529.5
2016	—	19.9	19.9	368.9	227.6	23.4	106.1	—	R 411.8	R 768.9	0.5	R 1,158.3	1,086.3	R 2,244.6
2017	—	16.1	16.1	444.6	375.4	25.6	121.4	—	336.5	858.9	0.7	1,320.2	1,135.6	2,455.8
2018	—	10.3	10.3	440.0	573.2	37.0	141.6	—	443.9	1,195.6	0.8	1,646.7	1,171.6	2,818.3
2019	—	11.2	11.2	466.0	507.6	29.6	135.6	—	R 495.4	R 1,168.3	0.8	R 1,646.2	1,146.6	R 2,792.8
2020	—	9.6	9.6	390.2	261.3	23.3	120.2	—	R 483.6	R 888.4	0.8	R 1,289.0	1,126.9	R 2,415.9
2021	—	8.8	8.8	587.4	480.6	40.4	161.5	—	R 512.4	R 1,194.9	0.8	R 1,791.9	1,176.4	R 2,968.3
2022	—	10.5	10.5	872.7	762.2	55.4	205.1	—	R 692.1	R 1,714.7	R 1.0	R 2,598.9	1,262.4	R 3,861.3
2023	—	9.9	9.9	733.9	605.5	26.1	189.9	—	605.8	1,427.2	1.0	2,172.1	1,229.7	3,401.8

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[i] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET6. Transportation sector energy price and expenditure estimates, selected years, 1970-2023, Colorado

Year	Primary energy											Electricity [g]	Total energy [f]
			Petroleum										
	Coal	Natural gas[a]	Aviation gasoline	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Lubricants	Motor gasoline [e]	Residual fuel oil	Total	Total [f]		
	Prices in dollars per million Btu												
1970	0.39	—	2.17	1.20	1.16	0.76	5.08	2.72	0.38	2.17	2.17	—	2.17
1975	0.81	—	3.45	2.49	2.51	2.12	7.48	4.67	1.86	3.99	3.99	—	3.99
1980	—	—	9.02	7.13	4.58	6.59	14.36	9.36	—	8.75	8.75	—	8.75
1985	—	—	9.99	6.70	7.60	5.94	18.18	9.28	3.79	8.43	8.44	—	8.44
1990	—	3.47	9.32	8.80	8.10	5.59	20.61	9.29	—	8.83	8.83	—	8.83
1995	—	1.49	8.36	8.58	11.21	4.04	21.75	9.80	—	8.90	8.90	17.68	8.90
2000	—	3.96	10.87	11.08	15.01	6.67	23.20	12.42	—	11.55	11.54	16.26	11.54
2005	—	7.95	18.56	17.70	20.50	12.72	35.22	18.32	—	17.34	17.34	14.69	17.33
2006	—	5.16	22.31	20.16	22.23	14.94	43.88	20.72	—	19.71	19.71	22.79	19.71
2007	—	8.49	23.70	21.65	24.65	16.27	47.16	22.98	—	21.64	21.64	21.05	21.64
2008	—	13.36	27.23	27.42	29.15	22.69	55.12	26.09	—	25.87	25.86	24.38	25.86
2009	—	8.99	20.32	17.55	23.21	12.54	56.07	18.61	—	17.63	17.63	23.85	17.63
2010	—	10.61	25.19	21.09	26.54	16.20	58.80	21.99	—	21.09	21.08	27.38	21.08
2011	—	9.27	31.64	26.98	29.49	22.41	69.54	27.95	—	27.10	27.09	28.70	27.09
2012	—	11.22	33.04	27.79	22.40	23.04	72.11	28.65	—	27.80	27.79	28.39	27.79
2013	—	R 11.55	32.71	27.07	23.60	22.35	69.42	28.17	—	27.26	27.24	30.93	27.25
2014	—	R 12.31	33.16	26.88	23.20	20.94	69.44	27.52	—	26.60	26.59	31.62	R 26.60
2015	—	R 12.49	24.86	18.68	12.30	12.26	67.28	19.57	—	18.56	18.55	29.54	18.56
2016	—	R 13.05	21.62	16.15	12.39	9.78	65.78	17.39	—	16.19	16.18	28.74	16.19
2017	—	R 13.33	24.13	18.96	17.14	12.19	67.25	19.74	—	18.54	18.53	28.62	R 18.54
2018	—	R 13.32	27.04	22.52	18.28	15.81	72.37	22.33	—	21.48	R 21.46	26.39	R 21.46
2019	—	R 13.31	25.57	21.27	14.36	14.64	74.92	21.62	—	20.56	20.53	25.51	20.53
2020	—	R 12.86	22.34	17.60	13.10	10.78	75.34	18.98	—	17.95	17.93	25.32	17.94
2021	—	R 13.73	28.86	23.74	22.24	15.26	81.25	26.55	—	24.42	24.37	27.67	24.37
2022	—	R 16.13	36.02	34.73	22.71	26.89	97.37	31.65	—	R 31.81	R 31.77	29.05	R 31.77
2023	—	17.68	32.62	30.44	17.32	21.46	105.48	29.83	—	28.72	28.70	38.77	28.71
	Expenditures in million dollars												
1970	(s)	—	3.7	18.6	0.6	32.0	8.8	356.0	0.2	419.8	419.9	—	419.9
1975	(s)	—	4.6	62.3	1.8	85.7	13.7	758.5	1.2	927.9	927.9	—	927.9
1980	—	—	12.1	272.1	0.8	175.9	35.1	1,636.1	—	2,131.9	2,131.9	—	2,131.9
1985	—	—	7.1	245.0	2.0	264.1	40.4	1,706.0	3.5	2,268.1	2,282.2	—	2,282.2
1990	—	(s)	7.8	352.8	2.3	193.0	51.5	1,703.0	—	2,310.4	2,317.7	—	2,317.7
1995	—	0.3	5.2	433.0	3.0	169.9	51.9	2,078.1	—	2,741.1	2,741.4	0.2	2,741.6
2000	—	2.0	8.6	737.1	3.3	286.6	59.1	3,019.9	—	4,114.5	4,116.6	0.5	4,117.1
2005	—	1.4	12.2	1,362.1	6.1	888.4	75.7	4,746.3	—	7,090.7	7,092.1	1.0	7,093.1
2006	—	0.8	17.2	1,635.7	6.8	1,100.2	91.9	5,395.3	—	8,247.1	8,247.9	1.9	8,249.8
2007	—	1.2	12.3	1,802.1	4.5	1,248.4	101.9	6,073.1	—	9,242.4	9,243.6	3.2	9,246.8
2008	—	1.6	13.4	2,114.9	12.2	1,693.3	110.6	6,613.7	—	10,558.2	10,559.9	4.0	10,563.9
2009	—	2.3	8.5	R 1,391.3	5.9	770.9	101.2	4,710.0	—	R 6,987.8	R 6,990.1	3.6	R 6,993.7
2010	—	2.7	14.6	R 1,779.1	2.5	1,049.8	131.2	5,587.0	—	R 8,564.0	R 8,566.7	4.3	R 8,571.1
2011	—	2.7	20.4	R 2,231.4	3.3	1,415.9	146.3	6,993.1	—	R 10,810.4	R 10,813.1	4.9	R 10,818.0
2012	—	3.3	14.6	R 2,295.4	2.7	1,459.1	141.4	7,173.9	—	R 11,087.1	R 11,090.4	5.1	R 11,095.4
2013	—	R 3.2	15.0	R 2,176.1	4.1	1,394.9	141.1	7,218.0	—	R 10,949.3	R 10,952.5	6.5	R 10,959.1
2014	—	R 4.2	17.0	R 2,303.7	6.9	1,323.3	149.8	7,197.8	—	R 10,998.5	R 11,002.7	6.9	R 11,009.6
2015	—	R 4.8	10.5	R 1,532.0	7.3	755.6	155.9	5,170.1	—	R 7,631.5	R 7,636.3	6.5	R 7,642.7
2016	—	R 6.3	9.2	R 1,309.1	5.9	657.9	145.3	4,701.8	—	R 6,829.2	R 6,835.4	6.3	R 6,841.8
2017	—	R 12.1	9.8	R 1,573.8	4.4	876.8	136.5	5,288.5	—	R 7,890.0	R 7,902.1	7.1	R 7,909.3
2018	—	R 18.2	13.2	R 2,010.4	4.7	R 1,187.3	144.3	6,034.5	—	R 9,394.5	R 9,412.7	8.4	R 9,421.0
2019	—	R 26.4	12.9	R 1,911.5	3.5	R 1,143.4	R 144.9	5,950.9	—	R 9,167.2	R 9,193.6	9.9	R 9,203.5
2020	—	R 13.0	11.8	R 1,540.5	2.0	R 465.5	R 127.9	4,417.4	—	R 6,565.0	R 6,578.0	8.1	R 6,586.1
2021	—	R 25.6	15.8	R 2,256.3	5.1	R 996.4	R 153.0	6,877.2	—	R 10,303.7	R 10,329.3	8.4	R 10,337.7
2022	—	R 14.5	20.4	R 3,211.4	5.9	R 1,985.2	R 203.8	9,136.5	—	R 14,563.0	R 14,577.5	9.1	R 14,586.6
2023	—	11.5	17.5	2,752.1	3.8	1,663.4	152.7	7,952.0	—	12,541.6	12,553.1	11.9	12,565.0

[a] Transportation use of natural gas as vehicle fuel only.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET7. Electric power sector price and expenditure estimates, selected years, 1970-2023, Colorado

Year	Coal	Natural gas [a]	Petroleum: Distillate fuel oil	Petroleum: Petroleum coke	Petroleum: Residual fuel oil	Petroleum: Total	Nuclear fuel	Biomass: Wood and waste [b]	Electricity imports [c]	Total energy [d]
	Prices in dollars per million Btu									
1970	0.26	0.24	0.45	—	0.36	0.37	—	—	—	0.25
1975	0.48	0.59	2.56	—	1.94	2.18	—	—	—	0.60
1980	0.86	2.64	6.50	—	4.38	5.65	0.21	—	—	1.12
1985	1.15	3.53	5.92	—	4.00	5.79	—	0.79	—	1.21
1990	1.06	2.17	5.35	—	3.09	5.34	—	0.80	—	1.11
1995	1.05	1.73	4.77	—	2.99	4.36	—	0.70	—	1.10
2000	0.93	4.03	6.94	—	5.66	6.89	—	0.67	16.78	1.41
2005	1.06	7.16	18.78	—	—	18.78	—	2.28	16.53	2.30
2006	1.28	5.99	14.69	—	8.55	12.16	—	2.32	17.32	2.23
2007	1.26	4.19	18.45	—	—	18.45	—	2.42	18.25	2.01
2008	1.44	6.77	21.67	—	—	21.67	—	2.66	18.28	2.66
2009	1.57	4.13	12.73	—	10.53	12.73	—	4.00	—	2.24
2010	1.57	5.02	17.49	—	—	17.49	—	5.42	13.31	2.29
2011	1.72	4.81	23.63	—	—	23.63	—	2.44	11.53	2.33
2012	1.84	4.01	25.19	—	—	25.19	—	2.21	—	2.28
2013	1.91	4.70	23.60	—	—	23.60	—	2.26	11.49	2.50
2014	1.93	5.21	19.70	—	—	19.70	—	2.73	13.31	2.69
2015	1.83	3.52	14.74	—	—	14.74	—	2.62	10.54	2.22
2016	1.85	3.12	10.25	—	—	10.25	—	2.54	—	2.17
2017	1.77	3.44	14.69	—	—	14.69	—	2.40	—	2.20
2018	1.64	3.62	16.41	—	—	16.41	—	2.22	10.74	2.30
2019	1.74	3.07	17.67	—	—	17.67	—	2.33	—	2.22
2020	1.69	2.83	11.65	—	—	11.65	—	1.80	—	2.17
2021	1.60	7.45	18.51	—	—	18.51	—	2.39	—	3.58
2022	1.91	7.00	26.00	—	—	26.00	—	2.69	—	3.82
2023	2.11	3.84	26.51	—	—	26.51	—	2.93	—	3.03
	Expenditures in million dollars									
1970	18.0	12.0	0.1	—	0.6	0.6	—	—	—	30.6
1975	54.5	30.9	9.2	—	10.8	20.0	—	—	—	105.4
1980	173.3	82.7	10.3	—	4.7	15.1	1.5	—	—	272.5
1985	321.3	17.2	3.9	—	0.2	4.1	—	(s)	—	342.6
1990	340.3	29.2	1.6	—	(s)	1.6	—	0.1	—	371.2
1995	343.7	41.7	0.8	—	0.1	0.9	—	0.1	—	386.4
2000	348.8	269.3	7.7	—	0.3	7.9	—	0.1	0.6	626.8
2005	398.4	686.4	4.7	—	—	4.7	—	1.1	0.4	1,091.0
2006	496.3	578.0	3.7	—	1.5	5.2	—	1.2	0.1	1,080.7
2007	484.1	538.5	6.9	—	—	6.9	—	1.3	0.1	1,030.9
2008	535.4	747.3	4.6	—	—	4.6	—	1.9	0.1	1,289.3
2009	534.6	492.0	1.8	—	(s)	1.8	—	3.3	—	1,031.8
2010	579.8	478.1	3.7	—	—	3.7	—	4.7	(s)	1,066.3
2011	622.0	423.4	5.9	—	—	5.9	—	2.2	(s)	1,053.4
2012	670.5	360.8	3.4	—	—	3.4	—	1.9	—	1,036.5
2013	681.0	441.5	2.5	—	—	2.5	—	2.6	(s)	1,127.6
2014	658.5	530.3	3.4	—	—	3.4	—	5.0	(s)	1,197.1
2015	607.4	349.8	1.3	—	—	1.3	—	2.9	(s)	961.5
2016	581.4	327.6	1.0	—	—	1.0	—	5.9	—	915.9
2017	547.0	363.7	1.5	—	—	1.5	—	5.7	—	917.9
2018	459.5	500.9	2.7	—	—	2.7	—	5.1	(s)	968.2
2019	469.1	448.9	2.0	—	—	2.0	—	5.5	—	925.5
2020	361.4	436.5	1.3	—	—	1.3	—	4.4	—	803.6
2021	398.7	943.3	7.0	—	—	7.0	—	5.6	—	1,354.6
2022	438.6	955.5	10.0	—	—	10.0	—	6.1	—	1,410.2
2023	426.3	549.6	77.5	—	—	77.5	—	5.9	—	1,059.3

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[c] Electricity imported from Canada and Mexico.
[d] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET1. Primary energy, electricity, and total energy price and expenditure estimates, selected years, 1970-2023, Connecticut

Year	Primary energy														Electric power sector [i,k,l]	Electricity [m]	Total energy [h,i,j]
	Coal			Natural gas [a]	Petroleum							Nuclear fuel	Biomass				
	Coking coal	Steam coal	Total		Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total		Wood and waste [g,h]	Total [h,i,j,k]			
	Prices in dollars per million Btu																
1970	—	0.48	0.48	1.57	1.29	1.87	0.75	2.96	0.40	1.75	1.39	0.13	0.86	1.27	0.35	6.27	2.14
1975	—	2.02	2.02	2.86	2.73	3.56	2.11	4.61	2.04	3.14	3.07	0.29	1.22	2.67	1.35	13.15	4.51
1980	—	2.26	2.26	4.97	6.82	6.63	6.50	10.10	4.66	7.97	7.08	0.38	2.52	5.58	2.60	19.10	8.95
1985	—	2.37	2.37	7.20	8.20	11.65	6.29	9.37	4.32	7.62	7.46	0.91	2.62	5.94	2.40	26.62	11.01
1990	—	2.14	2.14	6.12	8.42	12.58	5.91	10.06	3.04	7.29	7.69	0.84	0.83	5.28	1.55	26.83	11.45
1995	—	1.89	1.89	6.22	6.74	11.50	4.09	11.16	2.77	7.29	8.20	0.56	0.51	5.23	1.10	30.78	12.24
2000	—	1.53	1.53	7.11	9.82	15.04	6.90	13.22	3.32	11.52	10.18	0.47	0.53	6.88	1.82	27.91	13.51
2005	—	2.73	2.73	12.04	15.90	20.58	13.14	18.52	6.17	12.26	16.05	0.41	2.61	11.31	3.34	35.35	19.62
2006	—	2.71	2.71	11.20	18.44	22.52	15.01	21.38	8.09	15.87	19.27	0.43	2.69	12.29	2.99	43.46	23.09
2007	—	2.85	2.85	11.06	20.22	25.35	16.46	23.05	8.82	20.13	21.17	0.47	2.90	13.19	3.25	48.20	25.31
2008	—	3.12	3.12	13.26	26.08	29.61	23.06	26.67	10.51	38.18	26.25	0.47	3.35	15.82	3.66	52.16	29.10
2009	—	3.48	3.48	8.76	18.97	25.90	12.87	19.61	7.64	17.87	19.16	0.55	3.15	11.40	2.33	52.96	23.65
2010	—	3.45	3.45	8.86	21.75	28.60	16.41	23.67	12.21	R 22.03	R 22.64	0.64	3.60	R 12.88	2.78	50.95	R 25.61
2011	—	3.68	3.68	7.79	27.07	32.04	22.95	30.33	17.23	R 26.61	R 28.73	0.67	4.06	R 15.28	2.75	47.91	R 28.17
2012	—	3.59	3.59	7.05	29.27	29.82	23.55	31.32	19.67	R 28.21	R 30.11	0.73	3.93	R 15.07	2.11	45.56	R 28.64
2013	—	4.21	4.21	8.16	28.52	29.86	22.59	30.56	18.84	R 26.36	R 29.33	0.77	4.26	R 15.23	3.01	45.88	R 27.80
2014	—	4.27	4.27	9.10	27.91	32.67	21.02	29.37	17.32	R 26.85	R 28.44	0.72	4.41	R 15.35	3.34	49.96	R 27.97
2015	—	3.47	3.47	7.11	19.28	24.81	12.79	20.76	9.09	R 26.84	R 20.28	0.72	3.72	R 10.99	2.48	52.09	R 23.32
2016	—	4.07	4.07	6.54	16.31	24.48	10.41	18.68	7.66	R 19.98	R 17.94	0.71	R 3.14	R 9.78	2.02	50.54	R 21.91
2017	—	4.34	4.34	7.47	18.36	30.31	12.30	20.99	10.15	19.52	20.08	0.71	R 3.32	11.09	2.22	51.44	23.20
2018	—	3.87	3.87	R 7.48	21.30	30.37	16.27	23.42	12.22	23.14	22.60	0.68	R 3.42	12.07	2.60	53.97	24.89
2019	—	3.35	3.35	7.03	20.41	27.06	15.21	21.94	12.29	R 23.51	21.46	0.65	R 3.54	11.32	1.99	54.68	R 24.34
2020	—	3.11	3.11	5.97	R 16.81	25.88	10.58	18.48	8.80	R 21.02	R 18.15	0.62	R 2.97	R 9.19	1.53	56.08	R 23.06
2021	—	3.99	3.99	7.85	R 20.30	33.05	15.33	25.12	13.61	R 28.36	R 23.48	0.73	R 3.74	12.04	2.67	53.70	R 25.85
2022	—	—	—	R 11.22	R 32.25	36.61	26.99	33.83	22.48	R 30.26	R 32.89	0.59	R 5.99	R 17.43	R 4.84	61.77	R 33.15
2023	—	—	—	7.98	28.00	34.11	21.67	29.78	19.07	26.96	28.91	0.59	5.44	15.01	2.37	71.04	32.32
	Expenditures in million dollars																
1970	—	23.5	23.5	96.4	181.0	13.0	12.3	445.2	89.3	36.6	777.4	5.3	3.4	905.9	-76.1	345.0	1,174.9
1975	—	2.6	2.6	183.6	343.5	28.8	25.4	770.2	417.5	49.3	1,634.6	26.4	5.1	1,852.2	-311.5	829.8	2,370.4
1980	—	0.8	0.8	368.3	885.8	36.6	72.5	1,602.8	859.2	100.2	3,557.1	49.1	29.6	4,005.0	-688.1	1,381.4	4,698.2
1985	—	50.5	50.5	577.0	987.6	55.0	38.5	1,525.9	571.4	176.6	3,355.0	123.3	24.9	4,133.1	-634.0	2,132.6	5,631.7
1990	—	82.2	82.2	663.8	1,140.6	74.2	78.4	1,645.5	316.6	125.0	3,380.3	175.9	18.9	4,322.2	-565.2	2,489.1	6,246.1
1995	—	77.1	77.1	894.6	835.8	60.7	57.7	1,776.3	118.3	133.7	2,982.4	110.0	17.8	4,109.0	-367.4	2,937.7	6,679.4
2000	—	55.5	55.5	1,142.4	1,347.4	119.7	101.6	2,401.8	247.3	150.8	4,368.6	80.4	19.7	5,778.1	-637.8	2,852.3	7,992.6
2005	—	114.9	114.9	2,023.2	2,452.5	296.6	183.4	3,712.6	256.5	278.8	7,180.5	65.9	41.5	9,501.6	-1,069.4	3,991.5	12,423.7
2006	—	124.0	124.0	1,934.7	2,601.9	299.6	191.5	4,179.7	156.2	310.7	7,739.6	74.2	42.2	9,994.2	-979.8	4,696.8	13,711.2
2007	—	113.9	113.9	1,981.1	2,839.9	309.9	191.9	4,492.8	154.9	248.8	8,238.2	80.4	44.6	10,572.7	-1,039.7	5,613.3	15,146.3
2008	—	141.0	141.0	2,195.2	3,461.1	268.9	249.4	4,934.0	76.2	196.8	9,186.4	76.3	52.5	11,786.2	-1,072.0	5,509.7	16,223.9
2009	—	91.4	91.4	1,600.5	2,406.8	260.2	102.7	3,618.1	37.3	304.1	6,729.2	96.6	56.9	R 8,680.5	-692.7	5,369.6	R 13,357.4
2010	—	99.1	99.1	1,743.7	2,630.4	270.4	180.4	4,285.3	67.2	R 387.3	R 7,821.0	111.2	66.0	R 9,929.5	-874.6	5,283.1	R 14,338.1
2011	—	22.4	22.4	1,788.9	R 3,116.9	329.1	259.6	5,338.3	36.0	R 420.6	R 9,500.4	111.9	71.1	R 11,587.1	-839.3	4,881.5	R 15,629.2
2012	—	33.3	33.3	1,630.6	R 3,093.1	264.5	283.4	5,405.8	27.1	R 361.5	R 9,435.4	130.0	65.2	R 11,294.5	-673.2	4,584.5	R 15,205.8
2013	—	32.3	32.3	R 1,922.1	R 3,178.2	322.6	198.3	5,285.7	41.0	R 401.5	R 9,427.3	136.9	73.9	R 11,615.4	-939.8	4,669.1	R 15,344.7
2014	—	38.8	38.8	2,161.5	R 3,114.6	350.2	212.9	5,014.6	71.8	R 397.8	R 9,161.9	120.0	R 83.8	R 11,596.5	-995.9	5,004.0	R 15,604.6
2015	—	22.7	22.7	1,818.3	R 2,229.3	292.0	114.0	3,694.9	24.4	R 305.3	R 6,659.8	130.9	R 72.9	R 8,727.1	-822.7	5,238.9	R 13,143.3
2016	—	9.5	9.5	1,635.3	R 1,543.0	262.3	97.8	3,382.8	5.8	R 283.3	R 5,574.9	123.1	R 63.7	R 7,422.8	-648.2	4,988.8	R 11,763.4
2017	—	10.9	10.9	R 1,799.8	R 1,724.8	341.6	150.1	3,782.8	14.1	287.3	R 6,300.7	123.3	R 58.0	R 8,309.3	-674.4	4,937.8	R 12,572.6
2018	—	15.6	15.6	R 2,093.2	R 2,281.4	372.3	R 231.0	4,243.4	26.1	322.9	R 7,477.1	119.8	R 60.5	R 9,785.6	-880.4	5,309.4	R 14,214.7
2019	—	2.9	2.9	R 2,013.0	R 2,105.3	326.6	R 171.3	3,929.7	3.1	R 312.4	R 6,848.4	113.4	R 61.1	R 9,038.7	-666.3	5,205.5	R 13,577.9
2020	—	0.2	0.2	R 1,734.8	R 1,580.1	297.4	R 63.2	2,761.9	3.9	R 281.8	R 4,988.3	101.8	R 56.4	R 6,881.6	-521.3	5,187.7	R 11,547.9
2021	—	11.5	11.5	R 2,341.0	R 2,205.1	386.6	R 134.8	4,093.7	8.5	R 260.1	R 7,088.8	131.1	R 70.8	R 9,643.1	-971.5	5,082.4	R 13,754.0
2022	—	—	—	R 3,377.9	R 3,459.2	373.5	R 272.7	5,918.2	75.0	R 449.9	R 10,548.5	101.1	R 99.8	R 14,127.3	R -1,714.9	5,852.2	R 18,264.6
2023	—	—	—	2,385.4	2,959.0	365.3	200.3	5,039.7	22.7	390.1	8,977.3	84.1	88.1	11,534.8	-773.7	6,468.0	17,229.2

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[l] Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
[m] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.
Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET2. Total end-use energy price and expenditure estimates, selected years, 1970-2023, Connecticut

Year	Primary energy											Electricity [k]	Total energy [h,i,j]
			Petroleum							Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g,h]	Total [h,i,j]		
	Prices in dollars per million Btu												
1970	0.86	1.57	1.33	1.87	0.75	2.96	0.43	1.75	1.71	0.86	1.68	6.27	2.14
1975	2.08	2.86	2.73	3.56	2.09	4.61	2.09	3.14	3.44	1.22	3.33	13.15	4.51
1980	2.26	4.97	6.82	6.63	6.51	10.10	4.55	7.97	7.96	2.52	7.33	19.10	8.95
1985	2.78	7.27	8.21	11.65	6.29	9.37	4.66	7.62	8.47	2.62	8.11	26.62	11.01
1990	2.91	6.59	8.44	12.58	5.91	10.06	3.23	7.29	8.88	2.77	8.30	26.83	11.45
1995	2.46	7.32	6.76	11.50	4.09	11.16	3.38	7.29	8.81	2.27	8.31	30.78	12.24
2000	2.23	7.85	9.84	15.04	6.90	13.22	4.32	11.52	11.55	3.30	10.50	27.91	13.51
2005	3.60	13.81	15.91	20.58	13.14	18.52	8.12	12.26	16.87	4.56	16.20	35.35	19.62
2006	3.68	14.31	18.45	22.52	15.01	21.38	9.23	15.87	19.69	5.17	18.56	43.46	23.09
2007	3.75	13.44	20.23	25.35	16.46	23.05	9.86	20.13	21.64	5.71	19.78	48.20	25.31
2008	—	14.93	26.10	29.61	23.06	26.67	13.19	38.18	26.52	7.11	23.71	52.16	29.10
2009	—	11.31	18.98	25.90	12.87	19.61	10.34	17.87	19.28	5.96	17.24	52.96	23.65
2010	—	11.41	21.76	28.60	16.41	23.67	13.33	R 22.03	R 22.78	6.74	R 19.85	50.95	R 25.61
2011	—	10.42	27.08	32.04	22.95	30.33	15.83	R 26.61	R 28.79	8.09	R 23.73	47.91	R 28.17
2012	—	10.33	29.28	29.82	23.55	31.32	17.74	R 28.21	R 30.15	8.77	R 24.69	45.56	R 28.64
2013	—	10.00	28.56	29.86	22.59	30.56	19.95	R 26.36	R 29.42	7.97	R 23.71	45.88	R 27.80
2014	—	10.99	27.97	32.67	21.02	29.37	18.70	R 26.85	R 28.60	R 8.12	R 23.16	49.96	R 27.97
2015	—	9.44	19.31	24.81	12.79	20.76	10.33	R 26.84	R 20.38	R 6.21	R 17.07	52.09	R 23.32
2016	—	9.55	16.34	24.48	10.41	18.68	7.60	R 19.98	R 17.97	R 5.36	R 15.46	50.54	R 21.91
2017	—	R 10.25	18.39	30.31	12.30	20.99	10.35	19.52	20.13	R 6.04	17.12	51.44	23.20
2018	—	10.27	21.37	30.37	16.27	23.42	13.36	23.14	22.69	R 6.49	18.84	53.97	24.89
2019	—	10.78	20.42	27.06	15.21	21.94	12.74	R 23.51	21.47	R 6.30	18.09	54.68	R 24.34
2020	—	10.51	16.82	25.88	10.58	18.48	10.02	R 21.02	R 18.17	R 5.33	R 15.58	56.08	R 23.06
2021	—	11.95	R 20.31	33.05	15.33	25.12	14.99	R 28.36	R 23.50	R 6.35	R 19.83	53.70	R 25.85
2022	—	14.21	R 32.29	36.61	26.99	33.83	24.68	R 30.26	R 33.01	R 9.88	R 27.21	61.77	R 33.15
2023	—	13.87	28.02	34.11	21.67	29.78	22.46	26.96	28.95	8.98	24.34	71.04	32.32
	Expenditures in million dollars												
1970	3.8	96.3	178.8	13.0	12.3	445.2	40.5	36.6	726.4	3.4	829.9	345.0	1,174.9
1975	2.4	183.1	341.9	28.8	23.8	770.2	136.1	49.3	1,350.0	5.1	1,540.7	829.8	2,370.4
1980	0.8	368.3	881.7	36.6	70.7	1,602.8	226.1	100.2	2,918.1	29.6	3,316.8	1,381.4	4,698.2
1985	2.6	571.6	984.7	55.0	38.5	1,525.9	118.1	176.6	2,898.9	24.9	3,499.0	2,132.6	5,631.7
1990	1.0	628.5	1,134.1	74.2	78.4	1,645.5	51.4	125.0	3,108.6	18.9	3,757.0	2,489.1	6,246.1
1995	1.5	836.1	832.0	60.7	57.7	1,776.3	25.8	133.7	2,886.2	17.8	3,741.6	2,937.7	6,679.4
2000	0.2	988.0	1,341.7	119.7	101.6	2,401.8	16.8	150.8	4,132.4	19.7	5,140.3	2,852.3	7,992.6
2005	0.5	1,428.4	2,445.6	296.6	183.4	3,712.6	75.7	278.8	6,992.8	10.5	8,432.2	3,991.5	12,423.7
2006	0.3	1,372.9	2,596.1	299.6	191.5	4,179.7	52.9	310.7	7,630.5	10.7	9,014.4	4,696.8	13,711.2
2007	0.3	1,406.0	2,833.4	309.9	191.9	4,492.8	37.1	248.8	8,113.8	12.8	9,533.0	5,613.3	15,146.3
2008	—	1,573.2	3,452.2	268.9	249.4	4,934.0	22.5	196.8	9,123.8	17.2	10,714.2	5,509.7	16,223.9
2009	—	1,253.9	2,403.0	260.2	102.7	3,618.1	18.7	304.1	R 6,706.7	27.1	R 7,987.8	5,369.6	R 13,357.4
2010	—	1,258.4	2,624.3	270.4	180.4	4,285.3	14.6	R 387.3	R 7,762.3	34.2	R 9,054.9	5,283.1	R 14,338.1
2011	—	1,239.7	R 3,111.1	329.1	259.6	5,338.3	8.9	R 420.6	R 9,467.5	40.6	R 10,747.7	4,881.5	R 15,629.2
2012	—	1,175.6	R 3,087.8	264.5	283.4	5,405.8	4.6	R 361.5	R 9,407.6	38.1	R 10,621.3	4,584.5	R 15,205.8
2013	—	R 1,256.3	R 3,160.9	322.6	198.3	5,285.7	1.7	R 401.5	R 9,370.8	48.5	R 10,675.6	4,669.1	R 15,344.7
2014	—	1,477.1	R 3,097.4	350.2	212.9	5,014.6	2.7	R 397.8	R 9,075.6	R 47.9	R 10,600.6	5,004.0	R 15,604.6
2015	—	1,251.1	R 2,207.7	292.0	114.0	3,694.9	2.3	R 305.3	R 6,616.2	R 37.1	R 7,904.4	5,238.9	R 13,143.3
2016	—	1,183.8	R 1,539.5	262.3	97.8	3,382.8	1.8	R 283.3	R 5,567.4	R 23.4	R 6,774.6	4,988.8	R 11,763.4
2017	—	R 1,325.9	R 1,717.5	341.6	150.1	3,782.8	3.0	287.3	R 6,282.2	R 26.7	R 7,634.8	4,937.8	R 12,572.6
2018	—	1,440.0	R 2,260.9	372.3	R 231.0	4,243.4	2.4	322.9	R 7,432.9	R 32.3	R 8,905.3	5,309.4	R 14,214.7
2019	—	R 1,495.2	R 2,102.4	326.6	R 171.3	3,929.7	1.9	R 312.4	R 6,844.2	R 33.0	R 8,372.4	5,205.5	R 13,577.9
2020	—	R 1,343.3	R 1,578.4	297.4	R 63.2	2,761.9	0.7	R 281.8	R 4,983.4	R 33.5	R 6,360.2	5,187.7	R 11,547.9
2021	—	R 1,551.3	R 2,201.1	386.6	R 134.8	4,093.7	3.1	R 260.1	R 7,079.4	R 40.9	R 8,671.6	5,082.4	R 13,754.0
2022	—	R 1,868.2	R 3,449.1	373.5	R 272.7	5,918.2	5.3	R 449.9	R 10,468.7	R 75.5	R 12,412.4	5,852.2	R 18,264.6
2023	—	1,750.0	2,951.3	365.3	200.3	5,039.7	4.0	390.1	8,950.7	60.4	10,761.1	6,468.0	17,229.2

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. · Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2023, Connecticut

Year	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
	Prices in dollars per million Btu									
1970	1.30	1.88	1.48	2.66	1.70	1.52	0.56	1.59	7.21	2.44
1975	2.62	3.28	2.84	5.01	3.16	2.91	1.11	2.97	14.49	5.06
1980	4.47	5.72	7.07	9.21	8.15	7.13	2.85	6.45	20.27	9.01
1985	4.39	8.88	8.37	10.41	7.66	8.39	3.22	8.24	29.24	12.71
1990	4.37	8.30	8.55	13.60	6.75	8.68	2.83	8.29	29.33	12.87
1995	4.01	9.71	6.61	13.90	4.70	6.84	2.30	7.58	35.04	13.82
2000	4.12	11.11	9.88	17.55	10.34	10.23	3.50	10.28	31.82	15.19
2005	5.42	15.84	15.40	23.32	15.15	15.81	5.48	15.71	39.98	21.79
2006	5.69	17.25	18.08	25.66	18.00	18.47	6.31	17.93	49.40	26.32
2007	5.69	16.01	20.13	27.55	22.48	20.56	6.97	18.81	56.01	28.67
2008	—	17.49	24.61	32.49	27.10	25.19	8.59	22.26	57.28	31.32
2009	—	14.47	19.17	29.46	22.11	20.00	6.45	17.66	59.59	28.26
2010	—	14.56	21.86	32.19	25.06	22.70	7.61	19.23	56.41	29.33
2011	—	13.46	25.71	35.51	29.35	26.65	9.15	20.83	53.06	29.75
2012	—	13.74	29.16	33.84	31.46	29.61	10.19	22.70	50.83	30.89
2013	—	13.06	28.20	34.27	31.41	28.87	9.98	R 21.75	51.45	29.99
2014	—	13.75	27.49	37.76	31.80	28.60	9.73	21.55	57.88	31.12
2015	—	12.17	18.87	30.63	17.03	20.15	6.71	16.32	61.36	R 28.04
2016	—	12.56	16.05	30.27	13.57	17.95	5.73	15.09	58.65	R 27.99
2017	—	13.56	17.99	33.44	16.98	20.56	6.41	R 16.86	59.47	R 28.91
2018	—	13.51	19.92	34.62	24.52	R 21.98	7.09	R 17.71	62.14	R 29.60
2019	—	14.18	18.81	32.05	22.90	20.62	6.82	17.25	64.11	29.57
2020	—	14.26	14.90	31.01	14.87	17.23	5.64	R 15.37	66.57	R 30.16
2021	—	15.61	18.06	38.44	23.49	R 20.59	6.77	R 17.89	64.21	R 30.50
2022	—	17.84	27.85	43.11	39.27	R 29.54	R 10.47	R 23.49	72.13	R 36.74
2023	—	18.34	24.97	42.19	34.51	26.93	9.58	22.53	87.58	40.20
	Expenditures in million dollars									
1970	0.7	59.6	122.7	6.4	5.1	134.1	1.4	195.9	157.3	353.1
1975	0.4	105.8	214.5	11.5	5.2	231.2	3.0	340.4	368.2	708.6
1980	0.3	187.4	554.3	16.4	10.8	581.5	25.1	794.4	568.4	1,362.7
1985	0.8	299.8	531.3	19.8	26.3	577.4	20.0	898.0	861.9	1,759.9
1990	0.3	321.1	676.2	34.8	7.5	718.4	16.5	1,056.3	1,038.5	2,094.8
1995	0.3	408.1	481.9	36.3	3.3	521.4	14.6	944.4	1,286.2	2,230.6
2000	(s)	474.7	811.7	69.9	11.7	893.2	16.2	1,384.3	1,264.5	2,648.7
2005	0.1	723.0	1,336.1	115.3	28.0	1,479.4	8.2	2,210.7	1,882.8	4,093.5
2006	(s)	691.9	1,353.1	105.4	23.7	1,482.2	8.4	2,182.6	2,185.1	4,367.7
2007	(s)	710.5	1,517.8	124.4	16.5	1,658.7	10.3	2,379.4	2,555.6	4,935.0
2008	—	766.4	1,794.9	186.1	7.5	1,988.5	14.1	2,769.0	2,487.9	5,256.9
2009	—	651.6	1,375.5	185.2	5.8	1,566.4	23.1	2,241.0	2,557.4	4,798.4
2010	—	637.9	1,438.3	187.4	6.1	1,631.8	29.2	2,299.0	2,514.5	4,813.4
2011	—	618.5	1,522.4	221.3	5.2	1,748.9	34.0	2,401.3	2,339.0	4,740.3
2012	—	581.7	1,591.0	197.7	2.5	1,791.2	31.7	2,404.5	2,212.6	4,617.1
2013	—	623.4	R 1,627.6	243.6	2.2	R 1,873.4	40.5	R 2,537.3	2,305.8	R 4,843.1
2014	—	723.4	R 1,598.4	262.8	3.0	R 1,864.2	39.9	R 2,627.5	2,523.3	R 5,150.8
2015	—	637.2	R 1,143.2	228.4	1.0	R 1,372.6	30.7	R 2,040.5	2,699.3	R 4,739.8
2016	—	594.4	R 725.7	211.6	1.0	R 938.3	18.4	R 1,551.2	2,536.8	R 4,088.0
2017	—	675.6	R 808.4	301.1	0.8	R 1,110.3	21.6	R 1,807.6	2,512.0	R 4,319.6
2018	—	739.2	R 1,086.4	306.8	1.1	R 1,394.3	27.1	R 2,160.6	2,769.1	R 4,929.7
2019	—	763.1	R 997.5	269.6	1.5	R 1,268.6	27.8	R 2,059.5	2,732.7	R 4,792.2
2020	—	714.9	R 690.0	243.5	0.9	R 934.4	R 26.5	R 1,675.8	2,948.8	R 4,624.6
2021	—	801.0	R 999.0	300.9	1.3	R 1,301.1	R 32.9	R 2,135.0	2,868.4	R 5,003.4
2022	—	931.7	R 1,529.7	294.3	1.9	R 1,825.8	R 64.1	R 2,821.6	3,246.4	R 6,068.1
2023	—	886.8	1,354.8	292.6	2.9	1,650.4	49.8	2,587.1	3,751.2	6,338.3

[a] Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2023, Connecticut

Year	Primary energy										Electricity [j]	Total energy [g,h,i]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f,g]	Total [g,h,i]		
	Prices in dollars per million Btu											
1970	0.79	1.45	1.09	1.40	0.79	2.96	0.42	1.01	0.56	1.14	7.15	2.58
1975	2.00	2.64	2.44	2.80	2.67	4.61	1.97	2.48	1.11	2.53	13.70	5.89
1980	1.67	4.67	6.37	5.08	6.29	10.10	4.59	6.04	2.85	5.40	19.84	10.23
1985	2.39	6.59	7.07	11.58	7.66	9.37	4.68	6.54	3.22	6.51	27.30	13.27
1990	2.58	6.09	6.80	11.01	6.75	10.06	3.25	6.32	2.83	6.16	27.09	14.02
1995	2.26	7.35	4.94	10.08	4.70	11.16	3.38	5.40	2.30	6.53	30.67	15.64
2000	2.00	6.44	7.74	12.55	10.34	13.22	4.36	8.93	3.50	7.24	27.27	14.41
2005	3.47	12.68	13.90	16.88	15.15	18.52	8.16	13.91	5.48	13.12	33.78	22.14
2006	3.48	13.25	16.30	18.75	18.00	21.38	9.24	15.98	6.31	14.25	41.11	26.58
2007	3.54	12.32	17.97	20.81	22.48	23.05	9.90	17.92	6.97	14.18	45.10	28.98
2008	—	13.53	24.54	24.28	27.10	26.67	13.50	24.17	8.59	16.94	50.18	31.88
2009	—	9.69	16.94	19.58	22.11	19.61	10.76	17.33	6.45	11.77	49.44	28.47
2010	—	9.31	18.60	22.61	25.06	23.67	14.56	19.31	7.61	12.03	48.21	27.98
2011	—	8.25	26.52	26.09	29.35	30.33	17.52	26.46	9.15	12.92	45.64	26.55
2012	—	8.14	25.64	21.85	31.46	31.32	19.36	24.89	10.19	11.96	42.94	25.50
2013	—	9.02	25.63	21.17	31.41	30.56	19.95	24.66	4.86	12.60	42.89	25.08
2014	—	9.96	25.02	22.79	31.80	29.37	18.70	24.55	R 5.12	12.93	45.57	25.75
2015	—	8.38	15.56	14.74	17.03	20.76	10.33	16.54	R 5.73	R 10.61	46.81	R 23.98
2016	—	8.55	13.05	13.64	13.57	18.68	7.60	14.62	5.73	9.99	46.16	R 23.99
2017	—	9.04	14.86	17.78	16.98	20.99	10.35	R 17.00	6.41	10.72	47.08	R 24.45
2018	—	8.96	19.35	19.27	24.52	23.42	13.36	20.43	7.09	11.38	49.12	R 24.78
2019	—	9.46	18.02	15.57	22.90	21.94	12.74	18.72	6.82	R 11.29	49.08	R 24.77
2020	—	8.97	12.48	14.80	14.87	18.48	10.02	15.03	5.64	R 10.14	48.60	R 23.88
2021	—	10.45	19.25	22.22	23.49	25.12	14.99	R 21.25	6.77	R 13.07	48.25	R 25.36
2022	—	12.49	31.31	23.58	39.27	33.83	24.68	R 30.74	R 10.47	R 16.77	54.35	R 29.72
2023	—	12.04	24.49	19.34	34.51	29.78	22.46	25.04	9.58	15.12	58.58	29.92
	Expenditures in million dollars											
1970	0.3	21.3	29.5	1.7	0.1	1.5	2.6	35.4	(s)	57.1	113.5	170.6
1975	0.7	42.3	59.7	3.3	0.2	5.8	8.1	77.1	0.1	120.1	280.4	400.5
1980	0.5	96.1	107.8	4.6	0.2	14.6	33.8	161.0	0.6	258.3	476.4	734.7
1985	1.6	166.9	163.1	11.4	2.8	7.0	49.4	233.7	0.5	402.6	813.3	1,215.9
1990	0.6	185.2	137.8	14.5	2.0	10.8	21.1	186.2	1.8	373.8	990.0	1,363.9
1995	1.2	286.6	86.8	13.6	0.7	14.5	9.5	125.1	2.0	414.8	1,182.1	1,597.0
2000	0.2	320.9	134.4	25.7	6.9	56.7	6.0	229.8	2.7	553.6	1,162.8	1,716.4
2005	0.4	464.8	243.4	36.8	22.9	18.2	18.1	339.3	1.3	805.9	1,607.7	2,413.6
2006	0.3	444.2	257.9	33.8	18.5	5.1	18.4	333.6	1.4	779.5	1,909.2	2,688.7
2007	0.3	453.5	270.9	49.9	4.3	4.7	11.8	341.7	1.7	797.1	2,327.7	3,124.8
2008	—	520.2	348.2	72.6	4.8	10.3	9.0	444.9	2.2	967.2	2,339.9	3,307.1
2009	—	394.1	193.8	65.4	2.1	4.1	6.4	271.9	3.3	669.2	2,236.5	2,905.7
2010	—	388.3	224.1	68.8	1.2	4.6	8.3	307.0	3.8	699.0	2,208.6	2,907.6
2011	—	380.2	326.2	89.1	1.5	6.3	0.8	423.9	4.4	808.5	2,037.9	2,846.4
2012	—	355.7	255.0	60.1	0.2	5.6	0.9	321.8	4.3	681.8	1,901.3	2,583.1
2013	—	427.0	R 287.9	70.5	0.2	5.4	1.2	R 365.2	5.9	R 798.1	1,903.7	R 2,701.9
2014	—	524.5	R 270.6	70.7	1.2	5.0	2.2	R 349.6	R 5.9	R 880.0	2,004.6	R 2,884.7
2015	—	451.1	R 196.6	50.2	0.2	96.6	1.9	R 345.4	R 4.3	800.9	2,069.6	2,870.4
2016	—	441.8	R 113.2	42.4	0.3	84.0	1.7	R 241.6	R 2.8	R 686.2	2,000.5	R 2,686.6
2017	—	488.4	R 122.1	31.2	0.6	94.9	2.8	R 251.7	R 3.4	R 743.5	1,981.4	R 2,724.9
2018	—	537.0	R 167.9	53.7	0.4	107.7	2.2	R 331.9	R 3.5	R 872.5	2,075.0	R 2,947.5
2019	—	562.0	R 129.6	44.9	0.5	101.6	1.9	R 278.5	R 3.5	R 844.0	2,035.9	R 2,879.9
2020	—	481.7	R 73.3	46.2	0.3	86.3	0.7	R 206.8	R 5.3	R 693.7	1,848.3	R 2,542.1
2021	—	575.4	R 195.4	72.9	0.5	118.6	3.0	R 390.4	R 6.3	R 972.2	1,926.2	R 2,898.4
2022	—	708.2	R 311.5	64.7	0.7	165.1	5.1	R 547.0	R 9.8	R 1,265.0	2,156.0	R 3,421.0
2023	—	676.7	240.6	59.7	1.1	144.9	3.8	450.1	9.0	1,135.8	2,273.5	3,409.3

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[g] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[j] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: Expenditure totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2023, Connecticut

Year	Primary energy												Electricity [i]	Total energy [f,g,h]
	Coal			Natural gas [a]	Petroleum						Biomass	Total [f,g,h]		
	Coking coal	Steam coal	Total		Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e,f]			
	Prices in dollars per million Btu													
1970	—	0.79	0.79	1.03	0.73	1.47	2.96	0.43	1.44	0.65	1.40	0.70	4.27	1.10
1975	—	2.00	2.00	2.24	2.41	3.04	4.61	2.12	2.71	2.30	1.40	2.27	10.51	3.45
1980	—	—	—	4.08	5.75	5.53	10.10	4.55	6.87	5.21	1.40	4.86	16.60	6.90
1985	—	2.39	2.39	5.38	6.75	13.00	9.37	4.68	6.75	6.39	1.40	5.83	21.93	9.78
1990	—	2.58	2.58	4.65	6.77	12.26	10.06	3.25	5.78	5.86	1.71	5.30	22.13	9.66
1995	—	—	—	4.26	4.77	7.93	11.16	3.38	6.07	5.65	1.94	4.86	23.26	9.41
2000	—	—	—	5.79	7.72	12.50	13.22	4.36	9.84	9.10	1.28	6.97	21.44	10.88
2005	—	3.47	3.47	11.39	13.68	19.92	18.52	8.16	9.58	12.41	1.67	11.96	27.55	15.45
2006	—	—	—	10.58	15.77	21.75	21.38	9.24	12.92	15.56	1.68	13.52	34.31	18.21
2007	—	—	—	10.29	17.62	25.61	23.05	9.90	15.86	18.37	1.68	14.30	37.87	20.82
2008	—	—	—	12.38	23.89	32.72	26.67	13.50	34.66	26.72	1.68	16.60	43.75	24.90
2009	—	—	—	8.25	15.23	25.65	19.61	10.76	14.80	15.21	1.68	11.46	43.92	18.17
2010	—	—	—	9.36	18.50	24.23	23.67	14.56	R 18.70	R 19.33	1.68	R 13.93	42.52	R 19.89
2011	—	—	—	8.91	24.31	30.03	30.33	17.52	R 22.44	R 23.90	2.64	R 15.22	38.80	R 20.05
2012	—	—	—	8.56	25.52	24.27	31.32	19.36	R 23.47	R 24.96	2.64	R 14.50	37.14	R 19.30
2013	—	—	—	6.72	24.60	23.35	30.56	19.95	R 22.38	R 23.80	2.64	R 13.31	36.95	R 17.76
2014	—	—	—	7.85	24.40	25.54	29.37	18.70	R 22.82	R 23.81	3.24	R 14.00	37.85	R 18.71
2015	—	—	—	6.18	15.66	14.64	20.76	10.33	R 21.43	R 19.89	3.24	R 11.14	37.97	R 16.95
2016	—	—	—	5.91	12.83	13.15	18.68	7.60	R 15.45	R 15.29	3.24	R 9.75	37.55	R 15.55
2017	—	—	—	6.30	13.96	17.47	20.99	10.35	15.39	15.74	3.21	10.23	38.40	15.85
2018	—	—	—	6.36	18.24	18.96	23.42	13.36	18.76	19.16	2.50	11.60	40.36	17.30
2019	—	—	—	6.62	16.73	15.26	21.94	—	R 18.93	R 18.75	2.61	R 11.48	39.38	R 16.89
2020	—	—	—	6.07	11.99	14.48	18.48	—	R 17.03	R 16.14	2.57	R 10.33	38.31	R 15.55
2021	—	—	—	7.42	16.41	21.88	25.12	14.99	R 21.95	R 21.17	2.54	R 12.29	28.24	R 15.54
2022	—	—	—	10.08	27.47	23.22	33.83	24.68	R 24.89	R 26.20	R 2.71	R 17.33	44.17	R 22.27
2023	—	—	—	8.43	24.09	18.97	29.78	22.46	22.42	23.41	2.73	15.30	45.99	20.75
	Expenditures in million dollars													
1970	—	2.7	2.7	15.3	8.3	4.8	4.2	37.0	22.8	77.1	2.0	97.1	74.3	171.3
1975	—	1.4	1.4	34.9	27.2	13.8	0.9	121.7	33.5	197.0	2.1	235.4	181.2	416.6
1980	—	—	—	84.7	108.4	15.3	3.5	191.1	63.6	381.9	3.8	470.4	336.6	807.0
1985	—	0.2	0.2	105.0	47.1	22.2	11.1	64.8	119.2	264.4	4.4	374.0	457.4	831.4
1990	—	0.1	0.1	122.2	47.7	23.2	13.9	28.9	79.4	193.1	0.6	315.9	460.6	776.5
1995	—	—	—	141.2	23.7	9.7	11.3	16.1	96.1	156.9	1.2	299.4	469.4	768.7
2000	—	—	—	191.4	38.6	22.5	16.0	10.4	94.2	181.7	0.7	373.8	425.1	798.8
2005	—	0.1	0.1	239.1	74.0	142.2	53.9	56.9	164.0	491.0	0.9	731.1	484.4	1,215.5
2006	—	—	—	235.3	89.6	158.8	64.0	34.3	197.6	544.4	0.9	780.5	576.7	1,357.3
2007	—	—	—	240.2	91.3	134.3	52.7	24.5	150.2	453.0	0.9	694.1	702.0	1,396.2
2008	—	—	—	284.7	105.5	5.9	50.2	12.3	103.1	277.0	0.9	562.6	652.6	1,215.1
2009	—	—	—	207.5	72.4	7.0	35.2	11.4	219.8	345.9	0.8	554.2	553.3	1,107.5
2010	—	—	—	231.5	71.4	13.4	59.4	2.3	R 290.1	R 436.5	1.2	R 669.3	538.7	R 1,208.0
2011	—	—	—	240.5	91.7	17.7	73.9	1.8	R 311.5	R 496.7	2.2	R 739.4	485.7	R 1,225.0
2012	—	—	—	237.8	71.7	5.9	76.2	1.0	R 262.4	R 417.2	2.2	R 657.2	451.9	R 1,109.1
2013	—	—	—	205.3	87.7	7.4	76.2	0.5	R 304.8	R 476.6	2.2	R 684.1	440.0	R 1,124.0
2014	—	—	—	229.0	76.5	15.4	55.5	0.5	R 304.1	R 452.0	2.1	R 683.0	454.0	R 1,137.0
2015	—	—	—	162.6	44.5	12.2	39.0	0.4	R 211.3	R 307.4	2.1	R 472.1	444.6	R 916.7
2016	—	—	—	147.3	37.4	6.8	35.2	0.1	R 196.5	R 276.0	2.1	R 425.4	431.7	R 857.2
2017	—	—	—	159.1	43.6	3.7	40.1	0.1	205.9	293.5	1.6	454.2	425.0	879.2
2018	—	—	—	160.9	60.6	7.5	45.4	0.2	237.7	351.4	1.6	513.9	442.0	955.9
2019	—	—	—	167.2	51.3	9.5	42.7	—	R 227.5	R 331.0	1.7	R 500.0	412.7	R 912.7
2020	—	—	—	143.9	43.1	5.4	36.3	—	R 209.8	R 294.6	1.7	R 440.1	373.8	R 814.0
2021	—	—	—	172.1	49.7	9.3	49.7	0.1	R 176.0	R 284.8	1.6	R 458.5	269.7	R 728.2
2022	—	—	—	224.4	84.1	10.9	68.6	0.2	R 339.0	R 502.8	1.6	R 728.8	419.0	R 1,147.8
2023	—	—	—	179.3	71.9	6.9	60.8	0.2	302.3	442.1	1.6	623.0	404.8	1,027.7

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[i] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET6. Transportation sector energy price and expenditure estimates, selected years, 1970-2023, Connecticut

	Primary energy												
			Petroleum										
	Coal	Natural gas[a]	Aviation gasoline	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Lubricants	Motor gasoline [e]	Residual fuel oil	Total	Total [f]	Electricity [g]	Total energy [f]
Year	Prices in dollars per million Btu												
1970	0.79	—	2.17	1.39	1.40	0.75	5.08	2.96	0.38	2.63	2.63	—	2.63
1975	2.00	—	3.45	2.90	2.80	2.09	7.48	4.61	1.72	4.30	4.30	—	4.30
1980	—	—	9.02	7.40	5.08	6.51	14.36	10.10	3.88	9.69	9.69	—	9.69
1985	—	—	9.99	9.19	12.90	6.29	18.18	9.37	4.06	9.29	9.29	—	9.29
1990	—	—	9.32	9.74	13.02	5.91	20.61	10.06	2.74	9.81	9.81	—	9.81
1995	—	5.91	8.36	8.66	11.68	4.09	21.75	11.16	2.54	10.39	10.39	—	10.39
2000	—	7.30	10.87	11.22	12.55	6.90	23.20	13.22	3.19	12.58	12.58	—	12.58
2005	—	14.24	18.56	18.00	15.84	13.14	35.22	18.52	5.57	18.22	18.22	25.74	18.24
2006	—	17.92	22.31	20.19	17.79	15.01	43.88	21.38	7.46	20.96	20.96	42.63	21.01
2007	—	20.09	23.70	21.49	19.49	16.46	47.16	23.05	8.31	22.59	22.59	41.56	22.64
2008	—	23.56	27.23	29.54	23.35	23.06	55.12	26.67	9.38	27.14	27.13	45.25	27.18
2009	—	14.91	20.32	19.70	17.64	12.87	56.07	19.61	5.77	19.56	19.56	35.03	19.60
2010	—	15.91	25.19	22.90	20.86	16.41	58.80	23.67	10.94	23.38	23.38	33.79	23.41
2011	—	18.09	31.64	29.55	27.57	22.95	69.54	30.33	15.20	30.02	30.02	30.03	30.02
2012	—	13.28	33.04	30.68	23.37	23.55	72.11	31.32	16.76	30.99	30.99	28.41	30.98
2013	—	R 13.64	32.71	30.34	22.70	22.59	69.42	30.56	—	30.42	30.41	30.20	30.41
2014	—	R 13.81	33.16	29.80	24.29	21.02	69.44	29.37	—	29.28	29.28	38.33	29.30
2015	—	R 13.48	24.86	21.51	16.40	12.79	67.28	20.76	—	20.85	20.85	38.63	20.91
2016	—	R 12.74	21.62	17.72	15.32	10.41	65.78	18.68	—	18.44	18.44	31.78	18.48
2017	—	R 12.59	24.13	20.03	18.67	12.30	67.25	20.99	—	20.59	20.59	32.09	20.62
2018	—	R 13.24	27.04	24.09	19.83	16.27	72.37	23.42	—	23.33	23.32	37.62	23.36
2019	—	R 13.61	25.57	23.30	17.09	15.21	74.92	21.94	—	22.10	22.09	40.12	22.14
2020	—	R 13.17	22.34	20.28	15.77	10.58	75.34	18.48	—	18.87	18.86	39.11	18.91
2021	—	R 13.86	28.86	24.01	21.42	15.33	81.25	25.12	—	24.75	24.74	36.63	24.77
2022	—	R 16.91	36.02	39.20	22.09	26.99	97.37	33.83	—	34.77	34.75	52.96	34.80
2023	—	18.32	32.62	33.57	18.83	21.67	105.48	29.78	—	30.37	30.35	63.15	30.44
	Expenditures in million dollars												
1970	(s)	—	1.4	18.3	0.1	12.3	7.3	439.6	0.9	479.8	479.8	—	479.8
1975	(s)	—	1.6	40.5	0.3	23.8	8.9	763.5	6.3	844.8	844.8	—	844.8
1980	—	—	4.1	111.2	0.3	70.7	21.5	1,584.7	1.3	1,793.8	1,793.8	—	1,793.8
1985	—	—	3.6	243.2	1.6	38.5	24.8	1,507.8	3.9	1,823.4	1,824.4	—	1,824.4
1990	—	—	4.4	272.4	1.8	78.4	31.7	1,620.9	1.5	2,011.0	2,011.0	—	2,011.0
1995	—	0.3	1.7	239.7	1.2	57.7	31.9	1,750.4	0.2	2,082.8	2,083.1	—	2,083.1
2000	—	1.0	1.6	357.0	1.6	101.6	36.3	2,329.0	0.4	2,827.7	2,828.7	—	2,828.7
2005	—	1.4	17.5	792.1	2.3	183.4	46.5	3,640.5	0.8	4,683.1	4,684.5	16.7	4,701.2
2006	—	1.5	14.4	895.6	1.6	191.5	56.5	4,110.6	0.2	5,270.3	5,271.7	25.7	5,297.5
2007	—	1.8	15.1	953.4	1.3	191.9	62.7	4,435.4	0.8	5,660.5	5,662.3	28.0	5,690.3
2008	—	1.9	13.4	1,203.6	4.2	249.4	68.0	4,873.4	1.2	6,413.4	6,415.3	29.4	6,444.7
2009	—	0.7	14.2	R 761.3	2.6	102.7	62.2	3,578.7	0.9	R 4,522.6	4,523.4	22.5	R 4,545.8
2010	—	0.7	11.2	R 890.5	0.7	180.4	78.9	4,221.3	4.1	5,387.0	5,387.7	21.4	5,409.1
2011	—	0.5	13.2	R 1,170.8	0.9	259.6	89.2	5,258.1	6.2	R 6,798.1	R 6,798.6	19.0	R 6,817.5
2012	—	0.4	12.8	R 1,170.1	0.8	283.4	83.6	5,324.0	2.7	R 6,877.5	R 6,877.8	18.7	R 6,896.5
2013	—	R 0.6	10.8	R 1,157.7	1.1	198.3	83.5	5,204.1	—	R 6,655.5	R 6,656.1	19.6	R 6,675.7
2014	—	0.3	4.4	R 1,152.0	1.4	212.9	85.0	4,954.2	—	R 6,409.8	R 6,410.1	22.0	R 6,432.1
2015	—	0.2	2.7	R 823.3	1.3	114.0	90.1	3,559.3	—	R 4,590.7	R 4,590.9	25.4	R 4,616.3
2016	—	0.2	2.1	R 663.2	1.4	97.8	83.4	3,263.6	—	R 4,111.5	R 4,111.7	19.8	R 4,131.6
2017	—	R 2.8	2.3	R 743.4	5.6	150.1	77.7	3,647.7	—	R 4,626.8	R 4,629.5	19.4	R 4,648.9
2018	—	R 3.0	2.7	R 946.1	4.2	R 231.0	81.0	4,090.2	—	R 5,355.2	5,358.2	23.3	5,381.5
2019	—	R 2.9	3.0	924.0	2.5	R 171.3	79.9	3,785.4	—	R 4,966.0	R 4,968.9	24.2	R 4,993.1
2020	—	R 2.9	2.1	772.0	2.2	R 63.2	68.7	2,639.3	—	R 3,547.7	R 3,550.5	16.8	R 3,567.3
2021	—	R 2.9	3.1	R 957.0	3.5	R 134.8	79.3	3,925.4	—	R 5,103.1	R 5,105.9	18.1	R 5,124.1
2022	—	R 3.9	4.0	R 1,523.8	3.6	R 272.7	R 104.4	5,684.5	—	R 7,593.0	R 7,596.9	30.8	R 7,627.8
2023	—	7.2	3.5	1,283.9	6.1	200.3	80.3	4,834.0	—	6,408.1	6,415.3	38.5	6,453.8

[a] Transportation use of natural gas as vehicle fuel only.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET7. Electric power sector price and expenditure estimates, selected years, 1970-2023, Connecticut

Year	Coal	Natural gas [a]	Petroleum: Distillate fuel oil	Petroleum: Petroleum coke	Petroleum: Residual fuel oil	Petroleum: Total	Nuclear fuel	Biomass: Wood and waste [b]	Electricity imports [c]	Total energy [d]
	Prices in dollars per million Btu									
1970	0.45	0.34	0.37	—	0.38	0.38	0.13	—	—	0.35
1975	1.24	1.36	2.36	—	2.02	2.02	0.29	—	—	1.35
1980	—	—	6.13	—	4.70	4.71	0.38	—	—	2.60
1985	2.35	3.39	5.88	—	4.24	4.25	0.91	—	9.34	2.40
1990	2.13	2.70	5.67	—	3.01	3.04	0.84	—	8.37	1.55
1995	1.88	1.98	3.82	—	2.63	2.67	0.56	—	6.21	1.10
2000	1.53	4.43	6.81	—	3.27	3.31	0.47	—	16.78	1.82
2005	2.73	9.21	11.75	—	5.61	5.72	0.41	2.28	16.53	3.34
2006	2.71	7.32	14.06	—	7.61	7.80	0.43	2.32	17.32	2.99
2007	2.85	7.72	15.77	—	8.54	8.75	0.47	2.42	18.25	3.25
2008	3.12	10.34	22.42	—	9.68	10.53	0.47	2.66	18.28	3.66
2009	3.48	4.83	13.11	—	6.05	6.66	0.55	2.20	12.10	2.33
2010	3.45	5.60	16.98	—	11.93	12.31	0.64	2.40	13.31	2.78
2011	3.68	4.97	22.15	—	17.75	18.40	0.67	2.44	11.53	2.75
2012	3.59	3.87	23.87	—	20.12	20.75	0.73	2.21	—	2.11
2013	4.21	6.05	22.00	—	18.80	19.68	0.77	2.26	11.49	3.01
2014	4.27	6.65	20.01	—	17.27	17.76	0.72	2.73	13.31	3.34
2015	3.47	4.60	16.73	—	8.98	11.64	0.72	2.62	10.54	2.48
2016	4.07	3.58	9.76	—	7.69	8.53	0.71	2.54	8.74	2.02
2017	4.34	4.24	14.05	—	10.09	11.37	0.71	2.40	9.18	2.22
2018	3.87	4.67	15.87	—	12.12	13.61	0.68	2.22	10.74	2.60
2019	3.35	3.51	16.64	—	11.63	14.79	0.65	2.33	—	1.99
2020	3.11	2.41	9.58	—	8.57	8.89	0.62	1.80	—	1.53
2021	3.99	4.69	16.48	—	12.92	14.24	0.73	2.39	—	2.67
2022	—	R 8.90	21.71	—	22.33	22.25	0.59	2.69	—	R 4.84
2023	—	3.68	21.04	—	18.47	19.16	0.59	2.93	—	2.37
	Expenditures in million dollars									
1970	19.7	0.1	2.2	—	48.8	51.0	5.3	—	—	76.1
1975	0.1	0.5	3.1	—	281.4	284.6	26.4	—	—	311.5
1980	—	—	6.0	—	633.0	639.0	49.1	—	—	688.1
1985	47.8	5.4	2.9	—	453.2	456.1	123.3	—	1.4	634.0
1990	81.3	35.3	6.6	—	265.2	271.7	175.9	—	1.0	565.2
1995	75.6	58.4	3.8	—	92.5	96.3	110.0	—	27.0	367.4
2000	55.3	154.4	5.6	—	230.5	236.1	80.4	—	111.5	637.8
2005	114.3	594.9	6.9	—	180.8	187.7	65.9	31.1	75.5	1,069.4
2006	123.7	561.8	5.8	—	103.3	109.2	74.2	31.5	79.5	979.8
2007	113.6	575.0	6.5	—	117.8	124.3	80.4	31.8	114.7	1,039.7
2008	141.0	622.0	8.9	—	53.7	62.6	76.3	35.3	134.8	1,072.0
2009	91.4	346.5	3.8	—	18.6	22.4	96.6	29.8	106.0	692.7
2010	99.1	485.3	6.1	—	52.6	58.7	111.2	31.8	88.5	874.6
2011	22.4	549.2	5.9	—	27.1	32.9	111.9	30.6	92.4	839.3
2012	33.3	455.1	5.3	—	22.5	27.8	130.0	27.1	—	673.2
2013	32.3	665.8	17.3	—	39.2	56.6	136.9	25.4	22.9	939.8
2014	38.8	684.4	17.2	—	69.0	86.3	120.0	35.8	30.5	995.9
2015	22.7	567.2	21.6	—	22.1	43.7	130.9	35.8	22.5	822.7
2016	9.5	451.5	3.5	—	4.0	7.5	123.1	40.3	16.3	648.2
2017	10.9	473.9	7.4	—	11.1	18.5	123.3	31.3	16.5	674.4
2018	15.6	653.2	20.5	—	23.7	44.2	119.8	28.2	19.4	880.4
2019	2.9	517.9	2.9	—	1.2	4.1	113.4	28.0	—	666.3
2020	0.2	391.5	1.7	—	3.2	4.9	101.8	22.9	—	521.3
2021	11.5	789.7	4.0	—	5.4	9.4	131.1	29.9	—	971.5
2022	—	R 1,509.7	10.1	—	69.7	79.8	101.1	24.3	—	R 1,714.9
2023	—	635.4	7.8	—	18.7	26.5	84.1	27.7	—	773.7

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[c] Electricity imported from Canada and Mexico.
[d] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET1. Primary energy, electricity, and total energy price and expenditure estimates, selected years, 1970-2023, Delaware

Year	Primary energy														Electric power sector [i,k,l]	Electricity [m]	Total energy [h,i,j]
	Coal				Petroleum								Biomass				
	Coking coal	Steam coal	Total	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Nuclear fuel	Wood and waste [g,h]	Total [h,i,j,k]			
	Prices in dollars per million Btu																
1970	—	0.39	0.39	0.91	1.16	1.24	0.73	2.86	0.45	0.77	1.29	—	0.73	1.07	0.39	4.94	1.71
1975	—	1.16	1.16	1.80	2.53	3.71	2.03	4.54	1.92	2.22	2.78	—	1.45	2.50	1.63	11.69	3.95
1980	—	1.57	1.57	3.37	6.77	5.31	6.46	9.60	4.23	6.69	6.03	—	3.70	5.11	3.35	18.84	7.38
1985	—	1.87	1.87	4.87	7.51	10.72	6.63	9.39	4.16	6.22	7.39	—	4.19	5.14	2.48	21.42	9.14
1990	—	1.75	1.75	3.83	7.44	11.98	6.33	10.26	2.71	2.40	6.58	—	3.42	4.78	1.98	18.97	8.75
1995	—	1.58	1.58	3.30	6.60	10.67	4.74	10.15	2.58	3.10	6.99	—	2.80	4.65	1.95	20.30	9.04
2000	—	1.50	1.50	5.69	9.62	14.27	7.47	12.33	4.12	7.06	9.53	—	3.42	6.69	2.37	17.86	10.41
2005	—	2.11	2.11	11.49	15.49	19.29	12.85	18.01	7.14	12.16	15.21	—	6.25	10.88	4.07	22.79	16.48
2006	—	2.32	2.32	12.31	17.84	21.63	14.73	20.80	8.01	14.48	18.24	—	7.40	12.42	3.27	29.77	19.76
2007	—	2.37	2.37	10.84	19.26	24.22	15.99	21.96	9.22	16.58	19.55	—	4.43	12.27	3.54	33.35	21.06
2008	—	3.53	3.53	12.80	25.88	28.16	22.81	26.06	13.04	18.17	23.99	—	3.75	14.98	4.84	36.35	24.35
2009	—	3.26	3.26	12.83	16.52	24.22	12.55	18.86	9.31	21.52	17.84	—	3.73	13.40	3.79	35.77	21.23
2010	—	3.35	3.35	9.37	20.42	27.17	16.24	22.60	11.28	R 26.41	R 21.07	—	4.29	R 14.48	4.23	35.09	R 22.81
2011	—	3.41	3.41	8.92	25.88	29.93	22.67	28.71	17.26	R 22.94	R 26.85	—	4.67	R 16.96	4.60	33.73	R 25.11
2012	—	3.35	3.35	7.43	27.33	26.90	23.08	29.78	16.96	R 23.57	R 27.69	—	5.28	R 15.61	3.37	32.48	R 24.64
2013	—	3.20	3.20	7.81	26.78	26.08	22.06	28.93	16.70	R 25.62	R 27.50	—	7.31	R 15.79	3.84	32.11	R 24.06
2014	—	3.08	3.08	7.82	25.93	28.60	20.61	27.98	15.51	R 26.00	R 26.75	—	R 6.65	R 15.82	4.60	33.16	R 23.69
2015	—	2.93	2.93	6.53	18.02	21.82	11.99	20.27	8.33	R 22.06	R 19.27	—	R 4.47	R 12.26	2.78	32.96	R 19.75
2016	—	2.86	2.86	5.29	15.32	19.72	9.49	18.32	5.95	R 18.25	R 17.02	—	R 3.83	R 10.43	2.14	32.74	R 18.17
2017	—	2.69	2.69	6.40	18.12	23.95	12.04	20.92	8.93	19.58	19.52	—	R 3.74	12.66	2.71	32.21	19.77
2018	—	2.64	2.64	7.25	21.04	24.83	15.86	22.91	11.54	23.94	21.85	—	R 3.86	14.69	3.53	31.12	20.75
2019	—	2.57	2.57	7.27	20.73	21.15	14.64	21.61	9.83	26.26	20.81	—	R 3.97	14.59	2.63	31.05	19.89
2020	—	2.38	2.38	7.14	17.69	18.91	9.89	18.67	7.07	R 23.47	R 17.73	—	R 2.78	R 12.61	1.79	30.34	18.68
2021	—	2.41	2.41	8.52	R 21.59	24.76	14.62	24.95	10.83	R 24.75	23.08	—	R 3.30	16.45	3.39	31.07	21.83
2022	—	3.12	3.12	R 9.98	R 33.90	28.03	27.03	32.71	20.03	R 32.05	R 31.97	—	R 4.51	R 21.73	R 6.91	34.97	27.74
2023	—	3.55	3.55	9.57	29.32	24.51	21.46	29.10	15.95	30.47	28.02	—	4.99	19.90	2.23	38.09	26.70
	Expenditures in million dollars																
1970	—	14.5	14.5	24.4	29.1	10.3	8.1	93.8	18.6	11.5	171.4	—	0.2	210.5	-23.1	75.7	263.1
1975	—	26.5	26.5	34.0	62.2	34.8	18.0	168.4	123.3	21.4	428.1	—	0.5	489.2	-106.3	202.1	584.9
1980	—	44.0	44.0	102.9	146.5	56.3	54.6	333.5	335.5	74.2	1,000.7	—	2.7	1,150.3	-239.3	368.7	1,279.8
1985	—	133.2	133.2	188.6	161.4	39.4	56.0	372.6	92.7	85.6	807.6	—	3.7	1,133.1	-229.9	457.9	1,361.1
1990	—	104.3	104.3	151.4	152.3	45.1	44.4	431.8	62.9	57.9	794.4	—	1.9	1,052.0	-171.4	532.6	1,413.2
1995	—	82.9	82.9	204.6	129.7	53.7	2.0	447.6	58.7	39.0	730.7	—	2.5	1,020.6	-164.8	657.5	1,513.3
2000	—	75.1	75.1	275.1	241.0	54.1	4.4	577.1	95.9	69.5	1,042.1	—	3.0	1,395.2	-144.8	681.8	1,932.2
2005	—	119.4	119.4	538.1	311.8	99.1	12.2	984.5	132.1	111.9	1,651.6	—	1.9	2,310.9	-305.4	931.6	2,937.2
2006	—	131.3	131.3	531.8	332.8	99.5	12.1	1,167.7	96.4	98.7	1,807.2	—	1.9	2,472.2	-212.6	1,161.8	3,421.5
2007	—	151.4	151.4	527.9	337.8	101.8	10.2	1,245.7	118.6	88.0	1,902.2	—	3.6	2,585.1	-274.8	1,336.0	3,646.3
2008	—	214.7	214.7	618.9	389.8	126.8	15.2	1,412.2	147.5	110.0	2,201.4	—	8.0	3,043.0	-354.2	1,440.8	4,129.6
2009	—	110.5	110.5	662.5	280.5	126.4	5.7	1,015.6	83.6	76.2	1,588.0	—	8.2	2,369.3	-179.5	1,373.8	3,563.7
2010	—	101.3	101.3	524.2	304.5	145.6	269.3	1,215.8	47.7	R 79.8	R 2,062.6	—	9.9	R 2,698.0	-242.9	1,389.5	R 3,844.7
2011	—	61.0	61.0	708.3	R 363.7	145.6	305.5	1,480.4	29.7	R 143.0	R 2,467.9	—	11.2	R 3,248.3	-275.0	1,309.2	R 4,282.6
2012	—	58.3	58.3	747.7	345.5	115.6	245.4	1,535.2	43.9	R 132.5	R 2,418.0	—	9.1	R 3,233.0	-247.5	1,266.4	R 4,251.8
2013	—	58.4	58.4	697.3	R 347.5	121.5	162.5	1,496.7	17.0	R 93.6	R 2,238.7	—	9.5	R 3,004.0	-240.8	1,214.8	R 3,978.0
2014	—	31.5	31.5	753.4	R 376.8	149.5	150.4	1,442.5	18.1	R 103.8	R 2,241.0	—	10.1	R 3,036.0	-278.1	1,239.2	R 3,997.1
2015	—	20.9	20.9	630.2	R 274.2	116.4	90.1	1,141.7	6.8	R 99.2	R 1,728.4	—	R 5.2	R 2,384.8	-155.9	1,260.9	R 3,489.8
2016	—	23.3	23.3	540.8	218.2	86.7	72.0	1,071.1	6.6	R 78.1	R 1,532.6	—	3.8	R 2,100.5	-135.4	1,225.9	R 3,191.1
2017	—	12.9	12.9	R 588.4	R 251.3	86.0	124.0	1,256.7	3.0	80.4	1,801.3	—	3.7	2,406.9	-141.4	1,190.5	3,456.0
2018	—	11.3	11.3	637.0	R 365.9	122.0	R 175.6	1,423.9	9.2	90.1	R 2,186.7	—	3.8	R 2,838.8	-156.9	1,219.3	R 3,901.2
2019	—	5.6	5.6	586.3	R 336.5	101.5	R 149.9	1,422.9	6.4	82.1	R 2,099.1	—	4.1	R 2,695.0	-84.5	1,184.9	R 3,795.4
2020	—	4.7	4.7	532.0	R 249.2	81.7	R 82.6	1,020.5	5.5	R 75.7	R 1,515.4	—	R 2.9	R 2,054.9	-59.2	1,116.8	R 3,112.5
2021	—	11.0	11.0	587.2	R 338.1	112.9	166.1	1,463.3	3.6	89.9	R 2,173.8	—	R 3.6	R 2,775.5	-102.6	1,177.0	R 3,849.9
2022	—	5.8	5.8	R 759.8	R 552.5	138.3	R 265.4	1,885.7	12.0	R 117.4	R 2,971.4	—	R 5.6	R 3,742.6	R -252.3	1,332.2	R 4,822.5
2023	—	1.2	1.2	682.5	441.6	102.6	237.8	1,743.0	5.6	91.2	2,621.8	—	5.8	3,311.3	-65.1	1,398.0	4,644.2

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[l] Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
[m] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET2. Total end-use energy price and expenditure estimates, selected years, 1970-2023, Delaware

Year	Primary energy											Electricity [k]	Total energy [h,i,j]
			Petroleum							Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g,h]	Total [h,i,j]		
	Prices in dollars per million Btu												
1970	0.36	0.99	1.21	1.24	0.73	2.86	0.45	1.24	1.43	0.73	1.35	4.94	1.71
1975	1.26	1.88	2.54	3.71	2.03	4.54	1.86	2.52	3.10	1.45	2.93	11.69	3.95
1980	1.20	3.33	6.80	5.31	6.46	9.60	4.19	7.50	6.58	3.70	5.92	18.84	7.38
1985	1.34	5.11	7.57	10.72	6.63	9.39	4.25	7.12	8.15	4.19	7.09	21.42	9.14
1990	1.20	4.35	7.53	11.98	6.33	10.26	2.71	3.21	7.57	3.42	6.60	18.97	8.75
1995	1.26	4.15	6.75	10.67	4.74	10.15	2.61	3.10	7.42	2.80	6.34	20.30	9.04
2000	1.27	5.87	9.82	14.27	7.47	12.33	4.05	7.06	9.85	4.20	8.48	17.86	10.41
2005	2.03	12.15	15.56	19.29	12.85	18.01	7.12	12.16	15.82	6.25	14.60	22.79	16.48
2006	2.11	13.71	17.93	21.63	14.73	20.80	8.03	14.48	18.34	7.51	16.85	29.77	19.76
2007	2.18	12.08	19.33	24.22	15.99	21.96	9.26	16.58	19.75	8.29	17.37	33.35	21.06
2008	2.58	13.50	26.07	28.16	22.81	26.06	13.02	18.17	24.07	10.26	20.69	36.35	24.35
2009	2.48	15.05	16.72	24.22	12.55	18.86	9.31	21.52	17.93	7.90	16.92	35.77	21.23
2010	—	12.76	20.59	27.17	16.24	22.60	11.27	R 26.41	R 21.10	9.23	R 19.03	35.09	R 22.81
2011	—	12.79	25.96	29.93	22.67	28.71	17.26	R 22.94	R 26.88	11.17	R 22.57	33.73	R 25.11
2012	—	12.34	27.40	26.90	23.08	29.78	16.90	R 23.57	R 27.71	12.38	R 22.36	32.48	R 24.64
2013	—	11.41	26.83	26.08	22.06	28.93	16.62	R 25.62	R 27.52	12.19	R 21.67	32.11	R 24.06
2014	—	11.03	26.04	28.60	20.61	27.98	14.77	R 26.00	R 26.83	9.83	R 20.99	33.16	R 23.69
2015	—	10.32	18.09	21.82	11.99	20.27	7.94	R 22.06	R 19.33	R 7.07	R 16.10	32.96	R 19.75
2016	3.18	9.33	15.47	19.72	9.49	18.32	5.78	R 18.25	R 17.06	R 5.71	R 14.23	32.74	R 18.17
2017	—	10.23	18.18	23.95	12.04	20.92	8.11	19.58	19.55	R 5.48	16.43	32.21	19.77
2018	—	10.39	21.44	24.83	15.86	22.91	10.21	23.94	21.99	R 5.72	18.02	31.12	20.75
2019	—	9.93	20.78	21.15	14.64	21.61	9.61	26.26	20.82	R 6.05	17.10	31.05	19.89
2020	—	10.88	17.73	18.91	9.89	18.67	7.01	R 23.47	17.75	R 4.40	R 15.37	30.34	18.68
2021	—	11.36	R 21.67	24.76	14.62	24.95	10.60	R 24.75	23.10	R 4.74	R 19.30	31.07	21.83
2022	—	12.56	R 34.38	28.03	27.03	32.71	18.34	R 32.05	R 32.06	R 6.43	R 25.72	34.97	27.74
2023	—	14.42	29.37	24.51	21.46	29.10	15.12	30.47	28.04	7.01	23.65	38.09	26.70
	Expenditures in million dollars												
1970	0.4	22.9	28.3	10.3	8.1	93.8	14.1	9.3	163.9	0.2	187.4	75.7	263.1
1975	0.9	32.1	60.5	34.8	18.0	168.4	46.9	20.7	349.3	0.5	382.9	202.1	584.9
1980	5.5	77.6	139.8	56.3	54.6	333.5	179.0	61.9	825.1	2.7	911.0	368.7	1,279.8
1985	7.3	159.3	158.2	39.4	56.0	372.6	23.9	82.9	732.9	3.7	903.2	457.9	1,361.1
1990	7.0	121.6	149.3	45.1	44.4	431.8	29.1	50.2	750.0	1.9	880.6	532.6	1,413.2
1995	6.1	141.2	126.3	53.7	2.0	447.6	37.4	39.0	706.0	2.5	855.8	657.5	1,513.3
2000	5.9	233.5	230.9	54.1	4.4	577.1	72.0	69.5	1,008.1	2.8	1,250.4	681.8	1,932.2
2005	6.2	407.0	304.5	99.1	12.2	984.5	78.3	111.9	1,590.5	1.9	2,005.6	931.6	2,937.2
2006	5.7	456.8	326.9	99.5	12.1	1,167.7	90.4	98.7	1,795.2	1.9	2,259.6	1,161.8	3,421.5
2007	5.9	419.7	332.8	101.8	10.2	1,245.7	103.8	88.0	1,882.4	2.3	2,310.3	1,336.0	3,646.3
2008	5.6	496.5	379.6	126.8	15.2	1,412.2	139.6	110.0	2,183.4	3.2	2,688.8	1,440.8	4,129.6
2009	1.4	607.7	272.9	126.4	5.7	1,015.6	79.3	76.2	1,576.1	4.7	2,189.8	1,373.8	3,563.7
2010	—	396.1	295.5	145.6	269.3	1,215.8	47.2	R 79.8	R 2,053.2	5.9	R 2,455.1	1,389.5	R 3,844.7
2011	—	506.5	357.2	145.6	305.5	1,480.4	28.4	R 143.0	R 2,460.0	6.8	R 2,973.3	1,309.2	R 4,282.6
2012	—	567.0	R 340.8	115.6	245.4	1,535.2	42.6	R 132.5	R 2,412.1	6.4	R 2,985.5	1,266.4	R 4,251.8
2013	—	520.7	344.1	121.5	162.5	1,496.7	16.0	R 93.6	R 2,234.4	8.1	R 2,763.2	1,214.8	R 3,978.0
2014	—	525.0	367.6	149.5	150.4	1,442.5	10.9	R 103.8	R 2,224.6	R 8.2	R 2,757.9	1,239.2	R 3,997.1
2015	—	505.2	R 269.6	116.4	90.1	1,141.7	3.3	R 99.2	R 1,720.2	R 3.4	R 2,228.9	1,260.9	R 3,489.8
2016	7.2	428.7	R 213.4	86.7	72.0	1,071.1	5.7	R 78.1	R 1,526.9	2.3	R 1,965.2	1,225.9	R 3,191.1
2017	—	465.3	249.4	86.0	124.0	1,256.7	1.4	80.4	1,797.9	R 2.3	2,265.5	1,190.5	3,456.0
2018	—	521.6	R 345.0	122.0	R 175.6	1,423.9	1.2	90.1	R 2,157.7	2.6	R 2,682.0	1,219.3	R 3,901.2
2019	—	R 511.5	R 334.5	101.5	R 149.9	1,422.9	5.4	82.1	R 2,096.2	R 2.7	R 2,610.5	1,184.9	R 3,795.4
2020	—	480.0	R 248.2	81.7	R 82.6	1,020.5	5.2	R 75.7	R 1,514.0	R 1.7	R 1,995.7	1,116.8	R 3,112.5
2021	—	500.9	R 334.8	112.9	166.1	1,463.3	3.1	89.9	R 2,170.0	R 2.0	R 2,673.0	1,177.0	R 3,849.9
2022	—	544.8	R 529.2	138.3	R 265.4	1,885.7	5.5	R 117.4	R 2,941.6	R 3.9	R 3,490.3	1,332.2	R 4,822.5
2023	—	624.6	439.1	102.6	237.8	1,743.0	3.7	91.2	2,617.5	4.1	3,246.2	1,398.0	4,644.2

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. · Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2023, Delaware

Year	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
	Prices in dollars per million Btu									
1970	1.13	1.55	1.42	2.37	1.34	1.49	0.73	1.50	7.53	2.37
1975	2.73	2.39	2.71	4.73	3.37	2.96	1.45	2.74	13.93	5.11
1980	3.38	4.16	6.88	8.53	8.55	7.32	3.70	5.95	21.76	10.03
1985	3.76	6.91	7.54	10.37	8.27	8.11	4.19	7.59	27.29	12.20
1990	3.75	6.07	7.63	13.54	7.64	8.81	3.53	7.47	24.60	13.35
1995	3.34	6.37	6.28	11.89	4.70	7.75	2.87	6.95	26.63	13.97
2000	3.47	8.00	9.17	15.48	8.21	10.64	4.37	9.18	25.03	15.15
2005	—	14.06	14.98	20.52	14.26	16.72	6.83	15.17	26.42	20.13
2006	4.87	16.32	17.23	23.51	16.93	19.27	7.87	17.46	34.73	25.50
2007	4.77	15.62	18.76	25.36	18.90	21.44	8.70	17.78	38.58	27.54
2008	—	15.56	23.16	29.33	24.93	25.96	10.72	19.41	40.84	29.56
2009	—	17.24	17.60	25.98	19.81	21.65	8.05	18.72	41.24	28.90
2010	—	14.76	21.46	28.82	22.53	25.32	9.50	18.86	40.46	29.01
2011	—	14.94	24.69	31.79	26.41	28.49	11.42	19.65	40.15	29.58
2012	—	14.82	28.07	30.94	28.38	29.65	12.71	19.78	39.80	30.28
2013	—	13.04	27.19	29.50	28.54	28.44	12.45	18.05	37.96	27.66
2014	—	12.52	26.53	32.62	28.70	29.87	12.14	18.19	38.96	27.74
2015	—	11.99	18.54	27.79	16.01	R 23.38	8.37	15.73	39.34	26.93
2016	—	11.30	15.93	26.76	12.76	R 21.50	7.15	14.27	39.32	27.36
2017	—	12.25	17.72	28.43	15.96	R 23.69	8.00	15.37	39.12	27.71
2018	—	12.07	19.52	30.21	23.08	25.22	8.85	15.93	36.73	R 26.04
2019	—	11.60	19.92	27.42	21.53	R 23.74	8.51	15.11	36.78	25.80
2020	—	12.43	17.44	24.86	13.99	21.42	7.04	R 14.71	36.82	R 26.28
2021	—	12.63	20.85	29.36	22.04	R 25.07	8.45	R 16.14	36.68	R 26.59
2022	—	14.53	31.42	33.21	36.87	32.42	13.07	R 19.85	40.18	R 29.98
2023	—	17.11	29.51	33.21	32.89	31.24	11.95	20.89	46.11	33.88
	Expenditures in million dollars									
1970	0.1	12.4	16.8	3.2	2.8	22.8	0.2	35.6	30.0	65.6
1975	0.1	16.9	29.4	6.1	4.1	39.6	0.5	57.2	77.9	135.1
1980	0.1	29.7	52.7	10.4	13.3	76.5	2.6	108.9	138.6	247.5
1985	0.1	43.9	65.3	20.0	30.4	115.8	3.6	163.4	179.1	342.5
1990	0.4	44.5	51.1	25.3	6.3	82.6	1.7	129.2	222.5	351.8
1995	(s)	56.1	40.7	33.3	3.2	77.2	2.0	135.3	287.8	423.2
2000	(s)	78.9	60.7	37.1	6.1	103.9	2.4	185.2	305.3	490.4
2005	—	150.7	79.1	59.8	10.8	149.7	1.6	302.0	414.1	716.1
2006	(s)	154.3	70.7	54.1	10.4	135.2	1.6	291.1	504.6	795.7
2007	(s)	162.1	69.3	68.3	5.2	142.8	2.0	306.9	588.4	895.3
2008	—	158.7	77.7	83.1	3.5	164.3	2.7	325.7	617.0	942.7
2009	—	178.8	60.5	86.8	5.9	153.2	4.1	336.1	610.0	946.1
2010	—	153.1	71.3	110.8	5.1	187.1	5.2	345.4	657.1	1,002.5
2011	—	154.3	66.1	100.8	3.7	170.6	6.0	330.9	634.6	965.5
2012	—	130.5	58.7	80.2	1.7	140.6	5.6	276.8	614.0	890.8
2013	—	139.2	R 67.7	85.6	1.8	R 155.1	7.2	R 301.4	592.0	R 893.4
2014	—	149.5	R 71.4	107.9	3.0	R 182.3	7.1	R 338.9	617.4	R 956.3
2015	—	142.1	R 52.2	89.7	1.2	R 143.2	2.9	R 288.1	650.8	R 939.0
2016	—	114.8	R 32.8	61.7	1.0	R 95.5	1.9	R 212.2	639.1	R 851.2
2017	—	127.1	R 31.4	65.2	0.6	R 97.2	1.9	R 226.2	622.4	R 848.6
2018	—	152.2	R 48.8	86.8	1.1	R 136.6	R 2.2	R 290.9	635.4	R 926.3
2019	—	140.9	R 49.3	71.5	1.0	R 121.8	2.2	R 264.9	628.0	R 892.9
2020	—	140.5	R 31.6	54.3	0.6	R 86.5	R 1.3	R 228.3	627.0	R 855.3
2021	—	151.4	50.0	70.5	1.2	121.7	R 1.5	R 274.7	647.1	R 921.8
2022	—	179.1	R 77.4	94.0	1.8	173.2	R 3.1	R 355.4	714.3	R 1,069.7
2023	—	192.1	67.9	64.8	2.8	135.5	3.2	330.7	775.8	1,106.6

[a] Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2023, Delaware

Year	Primary energy										Electricity [j]	Total energy [g,h,i]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f,g]	Total [g,h,i]		
	Prices in dollars per million Btu											
1970	0.28	1.22	1.12	0.97	0.85	2.86	0.46	0.68	0.73	0.76	6.56	1.55
1975	1.20	1.87	2.39	3.28	2.36	4.54	1.95	2.19	1.45	2.12	12.76	4.52
1980	1.20	3.92	6.30	4.51	6.36	9.60	4.24	4.53	3.70	4.47	20.78	6.58
1985	1.33	6.30	6.27	10.38	8.27	9.39	4.35	7.16	4.19	6.66	22.97	13.78
1990	1.15	5.07	5.62	9.75	7.64	10.26	3.13	5.88	3.53	5.27	20.47	12.46
1995	1.26	5.10	4.06	9.63	4.70	10.15	2.62	5.47	2.87	5.21	21.03	13.22
2000	1.26	6.71	6.40	11.93	8.21	12.33	3.90	7.10	4.37	6.86	17.55	13.04
2005	—	12.52	12.89	16.82	14.26	18.01	6.91	12.40	6.83	12.46	22.28	17.73
2006	2.11	14.78	15.13	18.65	16.93	20.80	8.04	14.33	7.87	14.61	29.93	22.83
2007	2.18	13.96	16.43	20.34	18.90	21.96	9.01	15.88	8.70	14.40	32.85	24.60
2008	—	13.79	23.46	24.54	24.93	26.06	12.33	23.61	10.72	15.73	35.45	26.84
2009	—	15.38	14.16	19.80	19.81	18.86	8.72	16.74	8.05	15.61	35.26	25.19
2010	—	12.94	17.31	22.68	22.53	22.60	—	19.85	9.50	14.04	33.30	23.59
2011	—	13.20	22.52	25.86	26.41	28.71	—	24.25	11.42	15.00	31.18	23.55
2012	—	12.94	23.82	20.51	28.38	29.78	—	22.29	12.71	14.56	29.69	22.66
2013	—	11.25	23.55	20.20	28.54	28.93	—	21.97	12.45	12.91	29.88	21.48
2014	—	10.82	20.85	21.37	28.70	27.98	14.19	21.22	12.14	12.60	30.77	21.41
2015	—	10.16	12.20	12.88	16.01	20.27	7.52	14.68	8.37	11.30	30.05	20.01
2016	—	9.11	10.62	12.11	12.76	18.32	5.88	13.72	7.15	10.07	29.51	R 19.16
2017	—	9.90	13.03	15.85	15.96	20.92	7.51	R 17.00	8.00	11.11	28.98	R 19.28
2018	—	10.05	16.85	17.24	23.08	22.91	—	19.04	8.85	R 11.66	28.29	18.76
2019	—	9.62	15.13	13.74	21.53	21.61	—	17.11	8.51	10.88	27.94	18.30
2020	—	10.35	10.20	13.00	13.99	18.67	—	14.77	7.04	11.25	26.91	19.21
2021	—	10.39	15.86	19.92	22.04	24.95	11.05	20.44	8.45	12.56	27.80	20.23
2022	—	11.98	28.21	21.13	36.87	32.71	17.87	28.12	13.07	15.65	32.19	23.93
2023	—	13.93	21.64	17.11	32.89	29.10	16.16	23.20	11.95	16.16	34.67	25.48
	Expenditures in million dollars											
1970	(s)	3.5	5.1	0.5	0.2	0.4	5.0	11.3	(s)	14.8	19.9	34.7
1975	0.1	5.6	10.0	1.6	0.4	0.8	14.7	27.5	(s)	33.3	58.0	91.3
1980	0.1	13.1	23.3	2.1	0.3	2.3	113.8	141.8	0.1	155.1	107.3	262.4
1985	0.1	22.0	13.6	7.7	2.4	1.9	1.9	27.6	0.1	49.8	133.0	182.8
1990	0.5	20.7	13.1	7.0	0.4	1.9	3.5	26.0	0.2	47.4	164.9	212.2
1995	(s)	30.3	6.7	10.4	0.1	0.4	2.2	19.7	0.3	50.3	208.1	258.5
2000	(s)	35.8	10.2	11.0	6.3	0.8	5.5	33.9	0.4	70.1	245.5	315.6
2005	—	108.8	17.8	19.1	1.2	0.9	7.7	46.9	0.3	156.0	322.1	478.1
2006	(s)	124.7	24.8	19.5	2.6	0.7	8.3	55.9	0.3	180.9	428.5	609.4
2007	(s)	124.9	22.7	15.8	1.2	0.7	6.0	46.5	0.3	171.8	484.2	656.1
2008	—	126.3	25.7	25.5	0.8	0.9	1.0	53.8	0.4	180.5	524.8	705.3
2009	—	185.4	22.0	25.5	0.2	0.6	(s)	48.3	0.6	234.3	503.5	737.8
2010	—	161.7	22.1	25.2	0.2	0.7	—	48.2	0.7	210.6	490.8	701.3
2011	—	142.3	23.8	26.7	0.3	1.0	—	51.8	0.8	194.9	453.2	648.0
2012	—	133.6	25.4	21.8	0.1	1.0	—	48.4	0.8	182.7	429.8	612.5
2013	—	131.6	24.0	21.6	0.2	1.0	—	R 46.9	0.9	179.3	423.9	603.2
2014	—	135.7	27.9	25.8	0.4	0.9	(s)	R 55.1	R 0.8	191.6	440.7	632.3
2015	—	125.5	R 20.3	17.3	0.2	23.7	(s)	61.4	0.4	187.3	432.6	619.9
2016	—	118.2	R 12.5	13.2	0.1	21.6	(s)	R 47.5	0.3	166.0	426.5	592.5
2017	—	138.8	R 12.4	11.8	0.1	25.1	0.1	49.4	R 0.3	188.5	413.8	R 602.2
2018	—	163.6	22.1	17.6	0.2	27.7	—	67.6	0.3	R 231.5	419.2	650.6
2019	—	156.5	15.3	14.4	0.2	26.3	—	56.2	0.3	R 213.0	421.5	R 634.5
2020	—	110.5	R 7.6	10.1	0.1	22.9	—	40.7	0.3	R 151.5	374.9	526.3
2021	—	114.8	18.2	13.1	0.2	30.9	(s)	62.4	0.3	177.5	398.0	R 575.5
2022	—	134.9	R 32.8	18.3	0.3	41.9	(s)	93.3	0.5	R 228.7	472.1	700.8
2023	—	146.6	23.5	16.9	0.5	37.4	(s)	78.3	0.6	225.5	490.7	716.1

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[g] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[j] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: Expenditure totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2023, Delaware

Year	Primary energy												Electricity [i]	Total energy [f,g,h]
	Coal			Natural gas [a]	Petroleum						Biomass	Total [f,g,h]		
	Coking coal	Steam coal	Total		Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e,f]			
	Prices in dollars per million Btu													
1970	—	0.28	0.28	0.57	0.78	1.02	2.86	0.46	0.86	0.71	—	0.66	3.10	1.04
1975	—	1.20	1.20	1.37	2.19	3.57	4.54	1.87	2.11	2.40	—	2.20	9.25	3.29
1980	—	1.20	1.20	2.72	5.71	4.91	9.60	4.19	6.80	5.17	—	4.12	15.28	5.75
1985	—	1.33	1.33	4.38	6.12	11.65	9.39	4.35	5.92	6.00	—	4.57	16.15	6.64
1990	—	1.15	1.15	3.41	5.71	10.86	10.26	3.13	2.27	3.42	1.69	3.14	13.23	5.15
1995	—	1.26	1.26	2.84	4.91	8.63	10.15	2.62	2.25	3.06	2.02	2.78	13.82	5.02
2000	—	1.26	1.26	4.83	7.12	12.60	12.33	3.90	5.95	5.71	1.27	4.80	10.93	6.05
2005	—	2.03	2.03	10.47	12.73	18.56	18.01	6.91	10.25	10.97	1.64	9.90	18.19	11.96
2006	—	2.11	2.11	11.51	15.43	20.64	20.80	8.04	11.07	12.69	1.72	11.17	22.47	13.98
2007	—	2.18	2.18	8.61	16.73	24.13	21.96	9.01	12.45	14.23	1.72	10.12	26.16	14.25
2008	—	2.58	2.58	12.14	23.13	29.00	26.06	12.33	14.65	16.98	1.72	13.18	30.75	17.43
2009	—	2.48	2.48	13.56	14.28	23.95	18.86	8.72	17.96	14.92	1.72	13.78	27.86	17.34
2010	—	—	—	9.93	17.05	23.71	22.60	11.98	R 21.41	R 17.79	1.72	R 13.61	28.04	R 18.78
2011	—	—	—	11.36	22.90	27.37	28.71	17.32	R 19.57	R 21.02	2.41	R 14.81	26.12	R 17.38
2012	—	—	—	11.29	23.70	21.11	29.78	18.25	R 19.93	R 21.31	2.41	R 13.77	24.49	R 15.94
2013	—	—	—	10.74	23.06	20.74	28.93	18.09	R 20.34	R 21.94	2.41	R 13.12	24.72	R 15.60
2014	—	—	—	10.37	21.38	22.11	27.98	—	R 20.45	R 21.85	1.71	R 12.76	25.15	R 15.18
2015	—	—	—	9.60	12.77	12.17	20.27	7.52	R 17.78	R 16.17	1.67	R 11.07	24.27	R 13.52
2016	—	3.18	3.18	8.58	10.55	11.26	18.32	5.88	R 13.54	R 13.06	1.10	R 9.14	23.78	R 11.68
2017	—	—	—	9.46	12.98	15.05	20.92	7.51	14.91	15.17	0.76	10.69	22.79	13.09
2018	—	—	—	9.65	15.24	16.42	22.91	—	18.61	18.07	0.97	11.48	23.30	13.88
2019	—	—	—	9.27	14.10	12.91	21.61	—	R 19.72	17.27	1.41	10.88	22.57	12.87
2020	—	—	—	10.35	10.07	12.15	18.67	—	R 18.07	R 15.19	1.16	R 11.33	19.65	R 12.75
2021	—	—	—	11.14	13.84	19.01	24.95	11.05	19.16	18.45	0.95	12.83	22.27	14.48
2022	—	—	—	11.67	26.88	20.17	32.71	17.87	R 25.25	R 25.80	R 0.98	R 14.98	25.77	16.87
2023	—	—	—	13.26	21.69	16.11	29.10	16.16	23.24	22.41	1.17	15.07	22.99	16.43
	Expenditures in million dollars													
1970	—	0.2	0.2	7.0	3.6	6.5	1.4	7.3	4.0	22.8	—	30.1	25.7	55.8
1975	—	0.8	0.8	9.5	12.7	26.7	1.5	21.7	13.6	76.2	—	86.5	66.1	152.6
1980	—	5.4	5.4	34.8	20.5	43.6	1.8	45.1	42.3	153.2	—	193.3	122.9	316.2
1985	—	7.0	7.0	93.5	16.6	11.4	2.7	16.1	42.9	89.6	—	190.1	145.7	335.7
1990	—	6.1	6.1	56.4	17.1	12.6	2.6	12.3	31.7	76.3	0.1	138.9	145.2	284.1
1995	—	6.1	6.1	54.7	9.4	9.8	3.4	18.3	25.3	66.3	0.1	127.2	161.5	288.8
2000	—	5.9	5.9	118.7	19.9	5.9	3.7	23.7	46.6	99.8	(s)	224.4	131.0	355.5
2005	—	6.2	6.2	147.3	41.2	19.8	9.6	20.9	75.1	166.5	0.1	320.1	195.4	515.5
2006	—	5.6	5.6	177.7	42.1	25.5	12.3	24.1	55.4	159.4	(s)	342.8	228.7	571.5
2007	—	5.9	5.9	132.5	42.4	17.5	21.8	24.5	48.9	155.2	(s)	293.7	263.4	557.1
2008	—	5.6	5.6	211.5	41.6	16.9	18.9	34.4	73.7	185.4	(s)	402.6	299.0	701.6
2009	—	1.4	1.4	243.5	45.5	13.9	13.1	18.8	44.1	135.5	(s)	380.3	260.3	640.6
2010	—	—	—	81.3	28.1	9.4	19.2	26.6	R 45.8	R 129.1	(s)	R 210.5	241.7	R 452.1
2011	—	—	—	209.9	38.8	17.8	24.6	27.9	R 107.3	R 216.4	(s)	R 426.3	221.5	R 647.8
2012	—	—	—	302.9	31.3	13.2	24.9	19.3	R 99.5	R 188.3	(s)	R 491.2	222.5	R 713.7
2013	—	—	—	249.9	29.3	13.9	24.8	8.2	R 61.9	R 138.2	(s)	R 388.2	199.0	R 587.1
2014	—	—	—	239.8	33.8	15.3	22.9	—	R 65.2	R 137.2	0.3	R 377.4	181.2	R 558.6
2015	—	—	—	237.6	23.7	8.9	14.1	(s)	R 70.8	R 117.6	0.2	R 355.4	177.5	R 532.9
2016	—	7.2	7.2	195.7	16.6	9.7	13.0	(s)	R 51.0	R 90.3	0.1	R 293.4	160.3	R 453.7
2017	—	—	—	199.4	18.2	5.6	14.9	0.1	54.5	93.2	0.1	292.8	154.3	447.1
2018	—	—	—	205.9	21.7	12.9	16.8	—	61.4	112.7	0.2	318.8	164.7	483.5
2019	—	—	—	214.1	25.1	11.7	15.4	—	52.3	104.5	0.2	318.9	135.4	454.3
2020	—	—	—	229.0	14.3	13.5	13.4	—	R 51.1	R 92.3	0.2	R 321.5	114.9	R 436.4
2021	—	—	—	234.7	22.1	24.4	16.8	(s)	61.5	R 124.8	0.2	R 359.7	131.9	R 491.6
2022	—	—	—	230.9	43.4	18.0	24.1	(s)	R 81.7	R 167.2	0.3	R 398.4	145.8	R 544.2
2023	—	—	—	285.9	34.2	15.0	21.1	(s)	60.6	130.9	0.3	417.1	131.4	548.6

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[i] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET6. Transportation sector energy price and expenditure estimates, selected years, 1970-2023, Delaware

Year	Primary energy											Electricity [g]	Total energy [f]
			Petroleum										
	Coal	Natural gas[a]	Aviation gasoline	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Lubricants	Motor gasoline [e]	Residual fuel oil	Total	Total [f]		
	Prices in dollars per million Btu												
1970	0.28	—	2.17	1.24	0.97	0.73	5.08	2.86	0.42	2.13	2.13	—	2.13
1975	1.20	—	3.45	2.81	3.28	2.03	7.48	4.54	1.72	3.74	3.74	—	3.74
1980	—	—	9.02	7.72	4.51	6.46	14.36	9.60	3.93	8.41	8.41	—	8.41
1985	—	—	9.99	8.52	12.02	6.63	18.18	9.39	3.99	8.78	8.78	—	8.78
1990	—	—	9.32	8.71	12.03	6.33	20.61	10.26	2.33	8.98	8.98	—	8.98
1995	—	2.90	8.36	8.00	12.12	4.74	21.75	10.15	2.61	9.05	9.05	—	9.05
2000	—	3.08	10.87	11.19	16.10	7.47	23.20	12.33	4.16	10.95	10.95	—	10.95
2005	—	18.63	18.56	17.22	19.45	12.85	35.22	18.01	7.25	16.90	16.91	—	16.91
2006	—	21.62	22.31	19.39	21.64	14.73	43.88	20.80	8.02	19.42	19.42	—	19.42
2007	—	21.11	23.70	20.66	23.74	15.99	47.16	21.96	9.37	20.56	20.56	—	20.56
2008	—	25.64	27.23	28.23	27.47	22.81	55.12	26.06	13.27	25.01	25.01	—	25.01
2009	—	13.69	20.32	17.80	22.00	12.55	56.07	18.86	9.51	18.00	18.00	—	18.00
2010	—	23.96	25.19	21.47	25.84	16.24	58.80	22.60	10.48	21.05	21.05	—	21.05
2011	—	27.94	31.64	27.43	29.10	22.67	69.54	28.71	14.31	27.65	27.65	—	27.65
2012	—	30.11	33.04	28.32	23.51	23.08	72.11	29.78	15.92	28.54	28.54	—	28.54
2013	—	R 29.50	32.71	27.72	23.18	22.06	69.42	28.93	15.29	28.14	28.14	—	28.14
2014	—	R 29.20	33.16	27.56	24.40	20.61	69.44	27.98	14.77	27.23	27.23	—	27.23
2015	—	R 27.99	24.86	20.24	15.53	11.99	67.28	20.27	7.95	19.58	19.58	—	19.58
2016	—	—	21.62	16.86	14.73	9.49	65.78	18.32	5.77	17.32	17.32	—	17.32
2017	—	R —	24.13	19.53	18.79	12.04	67.25	20.92	8.17	19.77	19.77	—	19.77
2018	—	R —	27.04	23.25	20.14	15.86	72.37	22.91	10.21	22.20	22.20	—	22.20
2019	—	R —	25.57	22.60	16.44	14.64	74.92	21.61	9.61	21.04	21.04	—	21.04
2020	—	R —	22.34	19.42	15.38	9.89	75.34	18.67	7.01	17.87	17.87	—	17.87
2021	—	—	28.86	23.71	22.65	14.62	81.25	24.95	10.59	23.48	23.48	—	23.48
2022	—	—	36.02	37.00	23.20	27.03	97.37	32.71	18.35	R 32.74	R 32.74	—	R 32.74
2023	—	—	32.62	31.39	18.70	21.46	105.48	29.10	15.10	28.48	28.48	—	28.48
	Expenditures in million dollars												
1970	(s)	—	0.2	2.8	0.1	8.1	2.1	92.1	1.8	107.0	107.0	—	107.0
1975	(s)	—	0.3	8.4	0.5	18.0	2.3	166.2	10.4	206.0	206.0	—	206.0
1980	—	—	0.5	43.3	0.2	54.6	5.5	329.4	20.1	453.7	453.7	—	453.7
1985	—	—	0.8	62.7	0.2	56.0	6.4	368.0	5.8	500.0	500.0	—	500.0
1990	—	—	3.6	68.1	0.3	44.4	8.1	427.3	13.2	565.1	565.1	—	565.1
1995	—	(s)	2.2	69.5	0.2	2.0	8.2	443.7	16.9	542.8	542.9	—	542.9
2000	—	0.1	1.1	140.1	0.1	4.4	9.3	572.6	42.8	770.5	770.7	—	770.7
2005	—	0.2	12.8	166.4	0.3	12.2	12.0	974.0	49.7	1,227.3	1,227.5	—	1,227.5
2006	—	0.1	15.8	189.3	0.4	12.1	14.5	1,154.7	58.0	1,444.7	1,444.8	—	1,444.8
2007	—	0.1	16.6	198.3	0.2	10.2	16.1	1,223.1	73.3	1,537.8	1,537.9	—	1,537.9
2008	—	0.1	14.5	234.7	1.4	15.2	17.5	1,392.4	104.2	1,779.8	1,780.0	—	1,780.0
2009	—	(s)	10.0	144.8	0.2	5.7	16.0	1,001.8	60.5	1,239.1	1,239.1	—	1,239.1
2010	—	(s)	7.0	R 174.0	0.2	269.3	21.7	1,195.8	20.6	1,688.7	1,688.7	—	1,688.7
2011	—	(s)	8.3	R 228.5	0.3	305.5	23.4	1,454.9	0.5	R 2,021.2	2,021.3	—	2,021.3
2012	—	(s)	8.1	R 225.3	0.3	245.4	23.1	1,509.3	23.3	2,034.8	R 2,034.8	—	R 2,034.8
2013	—	(s)	7.0	R 223.1	0.2	162.5	22.7	1,470.9	7.7	R 1,894.2	R 1,894.3	—	R 1,894.3
2014	—	(s)	11.4	R 234.5	0.5	150.4	23.8	1,418.6	10.8	R 1,850.0	R 1,850.0	—	R 1,850.0
2015	—	(s)	1.0	173.4	0.5	90.1	26.0	1,103.8	3.2	1,398.0	1,398.0	—	1,398.0
2016	—	—	0.9	151.6	2.0	72.0	25.0	1,036.4	5.7	1,293.7	1,293.7	—	1,293.7
2017	—	—	1.1	R 187.5	3.4	124.0	24.1	1,216.6	1.3	1,558.1	R 1,558.1	—	R 1,558.1
2018	—	—	1.4	R 252.4	4.8	R 175.6	26.1	1,379.4	1.2	R 1,840.8	R 1,840.8	—	R 1,840.8
2019	—	—	1.3	244.8	3.9	R 149.9	R 27.2	1,381.1	5.4	R 1,813.6	R 1,813.6	—	R 1,813.6
2020	—	R —	0.8	R 194.8	3.8	R 82.6	23.0	984.2	5.2	R 1,294.5	R 1,294.5	—	R 1,294.5
2021	—	—	1.2	R 244.5	4.8	166.1	25.8	1,415.6	3.0	R 1,861.1	R 1,861.1	—	R 1,861.1
2022	—	—	1.5	R 375.7	8.0	R 265.4	32.1	1,819.6	5.4	R 2,507.9	R 2,507.9	—	R 2,507.9
2023	—	—	1.3	313.6	6.0	237.8	26.0	1,684.5	3.7	2,272.9	2,272.9	—	2,272.9

[a] Transportation use of natural gas as vehicle fuel only.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET7. Electric power sector price and expenditure estimates, selected years, 1970-2023, Delaware

Year	Coal	Natural gas [a]	Petroleum: Distillate fuel oil	Petroleum: Petroleum coke	Petroleum: Residual fuel oil	Petroleum: Total	Nuclear fuel	Biomass: Wood and waste [b]	Electricity imports [c]	Total energy [d]
	Prices in dollars per million Btu									
1970	0.39	0.37	0.47	0.29	0.46	0.40	—	—	—	0.39
1975	1.15	1.02	2.18	0.49	1.97	1.92	—	—	—	1.63
1980	1.64	3.47	6.21	4.32	4.27	4.33	—	—	—	3.35
1985	1.91	3.88	5.51	1.27	4.13	3.86	—	—	—	2.48
1990	1.82	2.58	4.58	0.90	2.71	2.05	—	—	—	1.98
1995	1.62	2.27	3.73	—	2.53	2.65	—	—	—	1.95
2000	1.52	4.88	6.65	—	4.35	4.85	—	0.67	—	2.37
2005	2.11	9.82	12.98	—	7.18	7.58	—	—	—	4.07
2006	2.33	7.59	13.88	—	7.81	9.97	—	2.32	—	3.27
2007	2.38	7.75	15.22	—	8.90	9.95	—	2.42	—	3.54
2008	3.56	10.58	20.26	—	13.42	16.58	—	2.66	—	4.84
2009	3.27	4.87	11.59	—	9.39	10.69	—	2.20	—	3.79
2010	3.35	5.15	16.04	—	11.59	15.74	—	2.40	—	4.23
2011	3.41	5.07	21.93	—	17.24	20.98	—	2.44	—	4.60
2012	3.35	3.31	22.91	—	19.55	22.09	—	2.21	—	3.37
2013	3.20	4.04	22.83	—	18.26	21.59	—	2.26	—	3.84
2014	3.08	4.68	22.19	—	16.78	19.42	—	2.73	—	4.60
2015	2.93	2.63	14.57	—	8.72	11.31	—	2.62	—	2.78
2016	2.74	1.99	10.74	—	7.47	10.10	—	2.54	—	2.14
2017	2.69	2.65	12.69	—	9.81	11.17	—	2.40	9.18	2.71
2018	2.64	3.06	16.07	—	11.77	14.60	—	2.22	10.74	3.53
2019	2.57	2.57	15.06	—	11.30	13.60	—	2.33	—	2.63
2020	2.38	1.71	11.54	—	8.33	10.60	—	1.80	—	1.79
2021	2.41	3.48	16.01	—	12.55	15.45	—	2.39	—	3.39
2022	3.12	R 6.55	25.75	—	21.69	24.73	—	2.69	—	R 6.91
2023	3.55	2.07	22.44	—	17.95	20.29	—	2.93	—	2.23
	Expenditures in million dollars									
1970	14.2	1.4	0.8	2.2	4.5	7.5	—	—	—	23.1
1975	25.6	1.9	1.7	0.7	76.4	78.8	—	—	—	106.3
1980	38.5	25.3	6.8	12.2	156.5	175.6	—	—	—	239.3
1985	125.9	29.3	3.2	2.7	68.8	74.7	—	—	—	229.9
1990	97.3	29.7	2.9	7.6	33.9	44.4	—	—	—	171.4
1995	76.8	63.3	3.5	—	21.3	24.7	—	—	—	164.8
2000	69.2	41.6	10.1	—	23.8	33.9	—	0.1	—	144.8
2005	113.1	131.1	7.3	—	53.9	61.2	—	—	—	305.4
2006	125.6	75.0	5.9	—	6.0	12.0	—	(s)	—	212.6
2007	145.4	108.3	5.0	—	14.8	19.8	—	1.3	—	274.8
2008	209.0	122.3	10.1	—	7.8	18.0	—	4.9	—	354.2
2009	109.1	54.9	7.6	—	4.3	11.9	—	3.6	—	179.5
2010	101.3	128.1	9.0	—	0.5	9.5	—	4.0	—	242.9
2011	61.0	201.8	6.6	—	1.3	7.9	—	4.4	—	275.0
2012	58.3	180.7	4.7	—	1.3	6.0	—	2.6	—	247.5
2013	58.4	176.5	3.4	—	1.0	4.4	—	1.4	—	240.8
2014	31.5	228.4	9.1	—	7.2	16.4	—	1.9	—	278.1
2015	20.9	125.0	4.7	—	3.5	8.2	—	1.8	—	155.9
2016	16.1	112.1	4.9	—	0.8	5.7	—	1.5	—	135.4
2017	12.9	123.2	1.8	—	1.6	3.4	—	1.3	0.6	141.4
2018	11.3	115.3	20.9	—	8.0	28.9	—	1.1	0.1	156.9
2019	5.6	74.7	1.9	—	0.9	2.9	—	1.3	—	84.5
2020	4.7	52.0	1.1	—	0.3	1.4	—	1.2	—	59.2
2021	11.0	86.2	3.3	—	0.5	3.8	—	1.6	—	102.6
2022	5.8	R 215.0	23.2	—	6.6	29.8	—	1.7	—	R 252.3
2023	1.2	57.9	2.5	—	1.8	4.3	—	1.7	—	65.1

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[c] Electricity imported from Canada and Mexico.
[d] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET1. Primary energy, electricity, and total energy price and expenditure estimates, selected years, 1970-2023, District of Columbia

	Primary energy														Electric power sector [l,k,l]	Electricity [m]	Total energy [h,i,j]
	Coal				Petroleum								Biomass				
	Coking coal	Steam coal	Total	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Nuclear fuel	Wood and waste [g,h]	Total [h,i,j,k]			
Year	Prices in dollars per million Btu																
1970	—	0.30	0.30	1.27	1.09	1.42	0.73	2.86	0.50	3.04	1.19	—	0.73	1.06	0.43	5.39	1.72
1975	—	1.32	1.32	2.13	2.61	3.31	—	4.85	1.97	4.18	3.30	—	1.45	2.85	1.92	10.74	4.33
1980	—	1.54	1.54	4.36	7.18	5.99	6.46	9.97	4.46	9.33	7.86	—	3.70	6.33	4.59	14.91	8.70
1985	—	1.76	1.76	7.30	7.87	12.33	5.80	10.28	4.36	11.37	8.75	—	4.19	7.78	4.24	20.88	11.56
1990	—	1.59	1.59	6.40	8.02	11.73	5.47	10.24	3.21	13.72	8.54	—	3.53	7.44	3.12	17.41	11.13
1995	—	1.49	1.49	6.95	5.91	10.68	—	10.81	2.65	9.40	8.60	—	2.87	7.76	2.67	20.92	12.40
2000	—	1.45	1.45	9.90	9.22	14.17	—	12.09	4.25	11.08	10.90	—	4.37	10.33	5.10	22.09	14.58
2005	—	2.51	2.51	14.05	14.66	20.48	—	18.42	—	26.56	17.14	—	6.83	15.29	11.60	26.91	20.08
2006	—	—	—	15.19	16.91	22.84	—	21.38	—	32.69	20.44	—	7.87	17.50	13.88	32.47	24.03
2007	—	2.67	2.67	14.11	18.53	25.57	—	22.69	—	32.89	21.82	—	8.70	17.05	15.22	34.56	24.57
2008	—	3.43	3.43	14.58	25.34	29.79	—	26.75	—	39.52	26.68	—	10.71	18.91	20.12	38.61	27.52
2009	—	3.13	3.13	12.77	16.64	25.17	—	18.63	—	13.84	17.30	—	8.05	14.53	13.94	38.79	24.38
2010	—	2.63	2.63	12.41	19.40	27.58	—	23.77	—	R 14.55	R 20.93	—	9.50	R 16.05	16.22	39.14	25.71
2011	—	3.26	3.26	11.91	25.26	29.02	—	30.20	—	R 17.61	R 26.90	—	11.42	R 18.25	15.25	37.53	R 26.62
2012	—	3.08	3.08	11.18	28.05	22.42	—	31.32	—	R 18.31	R 27.79	—	12.71	R 18.08	22.91	34.74	R 25.44
2013	—	3.15	3.15	R 11.57	27.58	24.01	—	30.43	—	R 17.29	R 26.92	—	12.45	R 17.39	—	34.74	R 24.70
2014	—	3.00	3.00	R 11.97	27.08	28.28	—	29.42	—	R 17.82	R 26.60	—	12.14	R 17.58	—	35.50	R 24.91
2015	—	3.03	3.03	R 10.92	18.96	16.83	—	21.32	—	R 15.48	R 19.75	—	2.62	14.30	2.62	35.36	R 23.10
2016	—	3.45	3.45	R 9.84	15.36	17.82	—	19.27	—	R 11.82	R 17.49	—	2.55	R 12.84	2.54	34.38	22.36
2017	—	4.09	4.09	R 11.14	R 18.30	21.84	—	22.00	—	12.51	19.74	—	0.60	R 14.15	9.18	34.57	R 23.06
2018	—	4.47	4.47	R 10.64	R 20.89	22.18	—	24.09	—	15.84	22.36	—	0.67	R 14.96	10.74	35.27	R 23.60
2019	—	5.11	5.11	R 11.48	21.60	21.25	—	22.73	—	16.06	21.61	—	1.13	R 15.22	—	35.97	R 24.09
2020	—	—	—	R 10.79	R 17.83	21.01	—	19.63	—	R 14.22	R 18.52	—	0.88	R 13.41	—	34.87	22.57
2021	—	—	—	R 13.05	R 22.01	25.51	—	26.24	—	R 15.71	R 23.64	—	0.69	R 17.11	—	37.54	R 25.67
2022	—	—	—	R 15.21	R 35.05	27.62	—	34.41	—	R 21.25	32.18	—	0.84	R 21.53	—	43.78	R 30.84
2023	—	—	—	14.87	29.73	26.28	—	30.61	—	19.94	29.01	—	1.01	20.28	—	48.36	32.28
	Expenditures in million dollars																
1970	—	8.5	8.5	33.5	31.4	(s)	(s)	85.4	35.1	2.2	154.1	—	(s)	196.1	-18.0	99.2	277.4
1975	—	13.4	13.4	55.7	48.1	0.1	—	146.4	51.6	4.7	250.8	—	0.1	320.0	-31.7	212.3	500.5
1980	—	5.0	5.0	121.8	95.6	0.1	12.1	203.3	45.2	18.6	374.9	—	3.1	504.8	-45.1	356.4	816.1
1985	—	6.1	6.1	211.5	109.8	0.2	0.2	205.2	20.3	10.3	345.9	—	4.1	567.6	-8.3	585.2	1,144.6
1990	—	2.7	2.7	184.6	77.1	0.2	0.2	217.4	20.6	8.8	324.3	—	1.8	513.4	-17.0	585.0	1,081.4
1995	—	0.2	0.2	229.0	63.2	0.2	—	233.0	8.9	12.4	317.7	—	2.1	549.0	-7.9	736.3	1,277.4
2000	—	0.3	0.3	337.9	91.7	0.4	—	255.9	5.6	21.9	375.5	—	2.3	715.9	-11.7	799.9	1,504.1
2005	—	2.4	2.4	467.1	159.8	0.3	—	322.0	—	12.7	494.8	—	0.1	964.4	-36.4	1,085.0	2,013.0
2006	—	—	—	445.1	102.7	0.3	—	353.4	—	15.8	472.2	—	0.1	917.4	-18.6	1,262.5	2,161.3
2007	—	1.3	1.3	474.3	110.4	0.4	—	356.6	—	17.6	485.0	—	0.1	960.7	-17.4	1,428.1	2,371.5
2008	—	1.3	1.3	474.6	134.2	0.5	—	351.7	—	18.9	505.3	—	0.2	981.5	-19.0	1,530.5	2,493.0
2009	—	1.0	1.0	436.1	85.0	0.4	—	254.5	—	59.2	399.0	—	0.1	R 836.2	-6.9	1,513.2	2,342.6
2010	—	0.2	0.2	415.8	130.8	0.6	—	328.9	—	R 66.6	R 526.9	—	0.1	R 943.0	-40.7	1,586.0	R 2,488.3
2011	—	0.2	0.2	377.2	R 123.3	0.6	—	429.0	—	R 73.7	R 626.6	—	0.1	R 1,004.0	-39.8	1,480.5	R 2,444.7
2012	—	0.2	0.2	316.3	119.0	0.6	—	361.4	—	R 80.7	R 561.7	—	0.1	R 878.4	-3.4	1,334.7	R 2,209.7
2013	—	(s)	(s)	R 373.0	96.8	0.6	—	355.7	—	R 77.5	R 530.7	—	0.1	R 903.9	—	1,314.0	R 2,217.9
2014	—	0.1	0.1	R 406.4	R 101.5	0.7	—	382.3	—	R 78.1	R 562.6	—	0.1	R 969.2	—	1,355.9	R 2,325.1
2015	—	0.1	0.1	R 358.3	R 72.9	1.1	—	285.3	—	R 64.9	R 424.1	—	1.3	R 783.8	-1.3	1,362.4	R 2,144.9
2016	—	0.1	0.1	R 287.5	43.6	0.4	—	276.1	—	R 40.6	R 360.7	—	2.0	R 650.4	-2.0	1,336.6	R 1,985.0
2017	—	0.1	0.1	R 327.8	33.4	0.3	—	275.1	—	44.5	R 353.3	—	0.5	R 681.9	-0.2	1,287.8	R 1,969.5
2018	—	0.2	0.2	R 332.7	48.0	0.3	—	348.4	—	52.9	449.6	—	0.6	R 783.2	-0.1	1,366.7	R 2,149.8
2019	—	(s)	(s)	R 340.2	59.5	0.4	—	320.0	—	45.4	R 425.4	—	1.2	R 766.8	—	1,353.7	R 2,120.5
2020	—	—	—	R 295.7	35.0	0.4	—	230.0	—	38.9	304.3	—	0.9	R 600.8	—	1,164.4	R 1,765.2
2021	—	—	—	R 357.7	R 80.4	2.7	—	323.7	—	R 52.0	R 458.7	—	0.6	R 817.1	—	1,291.7	R 2,108.7
2022	—	—	—	R 435.1	R 130.7	2.7	—	404.9	—	R 70.6	R 609.0	—	0.8	R 1,044.9	—	1,529.7	R 2,574.6
2023	—	—	—	384.7	107.5	1.8	—	372.6	—	48.0	529.8	—	1.0	915.5	—	1,630.1	2,545.6

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[l] Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
[m] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET2. Total end-use energy price and expenditure estimates, selected years, 1970-2023, District of Columbia

Year	Primary energy											Electricity [k]	Total energy [h,i,j]
			Petroleum							Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g,h]	Total [h,i,j]		
	Prices in dollars per million Btu												
1970	0.16	1.27	1.28	1.42	0.73	2.86	0.51	3.04	1.36	0.73	1.25	5.39	1.72
1975	1.26	2.13	2.63	3.31	—	4.85	1.92	4.18	3.58	1.45	3.01	10.74	4.33
1980	1.54	4.36	7.25	5.99	6.46	9.97	4.18	9.33	8.71	3.70	6.57	14.91	8.70
1985	1.76	7.30	7.94	12.33	5.80	10.28	4.57	11.37	8.99	4.19	7.88	20.88	11.56
1990	1.59	6.40	8.19	11.73	5.47	10.24	3.89	13.72	9.45	3.53	7.81	17.41	11.13
1995	1.49	6.95	6.00	10.68	—	10.81	3.16	9.40	9.12	2.87	7.98	20.92	12.40
2000	1.45	9.90	9.55	14.17	—	12.09	4.49	11.08	11.32	4.37	10.51	22.09	14.58
2005	2.51	14.05	15.90	20.48	—	18.42	—	26.56	17.82	6.83	15.49	26.91	20.08
2006	—	15.19	17.76	22.84	—	21.38	—	32.69	20.84	7.87	17.60	32.47	24.03
2007	2.67	14.11	19.32	25.57	—	22.69	—	32.89	22.18	8.70	17.09	34.56	24.57
2008	3.43	14.58	26.47	29.79	—	26.75	—	39.52	27.03	10.71	18.88	38.61	27.52
2009	3.13	12.77	16.93	25.17	—	18.63	—	13.84	17.38	8.05	14.53	38.79	24.38
2010	2.63	12.41	21.28	27.58	—	23.77	—	R 14.55	R 21.45	9.50	R 16.04	39.14	25.71
2011	3.26	12.15	26.86	29.02	—	30.20	—	R 17.61	R 27.26	11.42	R 18.40	37.53	R 26.62
2012	3.08	11.18	28.24	22.42	—	31.32	—	R 18.31	R 27.82	12.71	R 18.06	34.74	R 25.44
2013	3.15	R 11.57	27.58	24.01	—	30.43	—	R 17.29	R 26.92	12.45	R 17.39	34.74	R 24.70
2014	3.00	R 11.97	27.08	28.28	—	29.42	—	R 17.82	R 26.60	12.14	R 17.58	35.50	R 24.91
2015	3.03	R 10.92	18.96	16.83	—	21.32	—	R 15.48	R 19.75	—	R 14.40	35.36	R 23.10
2016	3.45	R 9.84	15.36	17.82	—	19.27	—	R 11.82	R 17.49	7.15	R 13.00	34.38	22.36
2017	4.09	R 11.14	R 18.30	21.84	—	22.00	—	12.51	19.74	0.60	R 14.15	34.57	R 23.06
2018	4.47	R 10.64	R 20.89	22.18	—	24.09	—	15.84	22.36	0.67	R 14.96	35.27	R 23.60
2019	5.11	R 11.48	21.60	21.25	—	22.73	—	16.06	21.61	1.13	R 15.22	35.97	R 24.09
2020	—	R 10.79	R 17.83	21.01	—	19.63	—	R 14.22	R 18.52	0.88	R 13.41	34.87	22.57
2021	—	R 13.05	R 22.01	25.51	—	26.24	—	R 15.71	R 23.64	0.69	R 17.11	37.54	R 25.67
2022	—	R 15.21	R 35.05	27.62	—	34.41	—	R 21.25	32.18	0.84	R 21.53	43.78	R 30.84
2023	—	14.87	29.73	26.28	—	30.61	—	19.94	29.01	1.01	20.28	48.36	32.28
	Expenditures in million dollars												
1970	1.7	33.5	28.3	(s)	(s)	85.4	27.1	2.2	143.0	(s)	178.2	99.2	277.4
1975	9.2	55.7	47.0	0.1	—	146.4	25.2	4.7	223.3	0.1	288.2	212.3	500.5
1980	5.0	121.8	91.8	0.1	12.1	203.3	3.9	18.6	329.8	3.1	459.7	356.4	816.1
1985	6.1	211.5	107.7	0.2	0.2	205.2	14.1	10.3	337.7	4.1	559.4	585.2	1,144.6
1990	2.7	184.6	75.3	0.2	0.2	217.4	5.4	8.8	307.3	1.8	496.4	585.0	1,081.4
1995	0.2	229.0	61.6	0.2	—	233.0	2.6	12.4	309.8	2.1	541.1	736.3	1,277.4
2000	0.3	337.9	85.6	0.4	—	255.9	(s)	21.9	363.8	2.3	704.2	799.9	1,504.1
2005	2.4	467.1	123.3	0.3	—	322.0	—	12.7	458.4	0.1	928.0	1,085.0	2,013.0
2006	—	445.1	84.0	0.3	—	353.4	—	15.8	453.5	0.1	898.8	1,262.5	2,161.3
2007	1.3	474.3	93.0	0.4	—	356.6	—	17.6	467.6	0.1	943.4	1,428.1	2,371.5
2008	1.3	474.6	115.2	0.5	—	351.7	—	18.9	486.3	0.2	962.5	1,530.5	2,493.0
2009	1.0	436.1	78.1	0.4	—	254.5	—	59.2	392.2	0.1	829.4	1,513.2	2,342.6
2010	0.2	415.8	R 90.1	0.6	—	328.9	—	R 66.6	R 486.2	0.1	R 902.3	1,586.0	R 2,488.3
2011	0.2	372.2	88.5	0.6	—	429.0	—	R 73.7	R 591.7	0.1	R 964.2	1,480.5	R 2,444.7
2012	0.2	316.3	115.6	0.6	—	361.4	—	R 80.7	R 558.4	0.1	R 875.0	1,334.7	R 2,209.7
2013	(s)	R 373.0	96.8	0.6	—	355.7	—	R 77.5	R 530.7	0.1	R 903.9	1,314.0	R 2,217.9
2014	0.1	R 406.4	R 101.5	0.7	—	382.3	—	R 78.1	R 562.6	0.1	R 969.2	1,355.9	R 2,325.1
2015	0.1	R 358.3	R 72.9	1.1	—	285.3	—	R 64.9	R 424.1	—	R 782.5	1,362.4	R 2,144.9
2016	0.1	R 287.5	43.6	0.4	—	276.1	—	R 40.6	R 360.7	(s)	R 648.4	1,336.6	R 1,985.0
2017	0.1	R 327.8	33.4	0.3	—	275.1	—	44.5	R 353.3	0.5	R 681.7	1,287.8	R 1,969.5
2018	0.2	R 332.7	48.0	0.3	—	348.4	—	52.9	449.6	0.6	R 783.1	1,366.7	R 2,149.8
2019	(s)	R 340.2	59.5	0.4	—	320.0	—	45.4	R 425.4	1.2	R 766.8	1,353.7	R 2,120.5
2020	—	R 295.7	35.0	0.4	—	230.0	—	38.9	304.3	0.9	R 600.8	1,164.4	R 1,765.2
2021	—	R 357.7	R 80.4	2.7	—	323.7	—	R 52.0	R 458.7	0.6	R 817.1	1,291.7	R 2,108.7
2022	—	R 435.1	R 130.7	2.7	—	404.9	—	R 70.6	R 609.0	0.8	R 1,044.9	1,529.7	R 2,574.6
2023	—	384.7	107.5	1.8	—	372.6	—	48.0	529.8	1.0	915.5	1,630.1	2,545.6

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. · Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2023, District of Columbia

Year	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
	Prices in dollars per million Btu									
1970	1.05	1.43	1.42	2.53	1.50	1.42	0.73	1.42	7.02	2.00
1975	1.75	2.30	2.71	4.61	3.37	2.71	1.45	2.44	12.65	3.79
1980	3.18	4.56	7.40	9.81	8.55	7.41	3.70	5.12	17.32	7.07
1985	3.28	7.80	8.74	13.53	8.50	8.74	4.19	7.62	20.31	9.67
1990	3.36	7.12	8.24	12.58	6.49	8.22	3.53	7.02	17.88	9.49
1995	3.11	7.98	7.71	13.38	4.97	7.67	2.87	7.77	22.35	11.15
2000	2.94	10.53	10.40	16.95	8.68	10.39	4.37	10.35	23.53	13.50
2005	4.99	16.04	15.86	22.70	15.08	15.88	6.83	15.96	26.68	19.00
2006	—	16.55	18.41	25.79	—	18.44	7.87	16.70	28.95	20.71
2007	4.60	15.26	20.14	27.76	—	20.18	8.70	15.61	32.77	20.92
2008	—	16.04	24.92	32.25	—	24.98	10.72	16.56	37.46	23.07
2009	—	13.45	18.69	27.85	—	18.76	8.05	13.81	40.23	21.79
2010	—	13.34	22.19	31.58	—	22.25	9.50	14.07	41.06	22.84
2011	—	12.86	26.17	34.59	—	26.17	11.42	13.07	39.26	22.36
2012	—	11.76	29.76	33.70	—	29.76	12.71	13.27	35.99	21.24
2013	—	12.09	28.81	33.09	—	28.83	12.45	13.05	36.83	20.76
2014	—	12.51	28.06	35.38	—	28.15	12.14	R 13.33	37.34	20.79
2015	—	11.48	19.60	29.51	—	19.65	—	12.06	38.06	21.41
2016	—	10.44	16.85	28.86	13.50	17.38	7.15	10.51	36.02	21.11
2017	—	12.06	18.74	31.85	—	R 19.39	8.00	12.12	37.91	22.33
2018	—	11.37	20.65	33.80	—	20.74	—	11.82	37.63	21.70
2019	—	12.38	21.15	30.32	22.82	R 22.50	—	12.43	38.05	22.91
2020	—	11.54	17.60	28.10	—	19.56	7.04	11.57	37.03	22.21
2021	—	13.85	20.73	33.78	—	21.57	—	14.23	38.36	24.08
2022	—	16.13	31.77	36.44	—	32.06	—	16.93	41.57	26.76
2023	—	16.25	29.21	35.22	—	29.54	—	16.98	48.20	30.07
	Expenditures in million dollars									
1970	0.6	20.2	13.4	(s)	0.2	13.6	(s)	34.4	19.9	54.2
1975	0.2	30.7	18.3	(s)	0.1	18.5	0.1	49.4	39.2	88.7
1980	1.8	62.8	32.3	(s)	0.2	32.6	3.0	100.2	64.1	164.3
1985	2.5	131.4	28.2	(s)	0.5	28.7	4.0	166.6	85.4	252.0
1990	1.2	108.7	8.5	(s)	0.1	8.7	1.6	120.1	90.3	210.4
1995	0.1	126.0	12.8	0.1	0.2	13.0	1.8	140.9	122.6	263.5
2000	0.1	166.9	13.2	0.1	0.1	13.4	2.0	182.3	130.4	312.7
2005	0.4	233.7	32.4	0.1	(s)	32.5	0.1	266.7	176.4	443.1
2006	—	193.6	19.5	0.1	—	19.7	0.1	213.3	180.0	393.3
2007	0.2	209.5	23.9	0.2	—	24.0	0.1	233.9	220.2	454.2
2008	—	218.0	20.8	0.2	—	21.0	0.2	239.2	244.9	484.0
2009	—	187.4	19.0	0.2	—	19.2	0.1	206.7	260.8	467.5
2010	—	184.1	26.9	0.3	—	27.2	0.1	211.4	297.5	508.9
2011	—	161.8	5.4	(s)	—	5.4	0.1	167.3	276.2	443.4
2012	—	136.2	31.6	(s)	—	31.6	0.1	168.0	245.9	413.9
2013	—	164.5	23.7	0.2	—	R 23.9	0.1	188.5	255.6	444.1
2014	—	185.9	22.6	0.4	—	R 23.0	0.1	208.9	264.0	472.9
2015	—	161.7	21.1	0.2	—	R 21.3	—	182.9	324.3	507.2
2016	—	124.0	1.8	0.1	(s)	2.0	(s)	126.0	307.5	433.5
2017	—	149.2	1.7	0.2	—	1.9	(s)	151.0	309.8	460.8
2018	—	154.5	14.1	0.2	—	14.2	—	168.7	332.9	R 501.6
2019	—	154.6	1.1	0.3	(s)	1.3	—	155.9	330.7	486.6
2020	—	133.9	0.7	0.3	—	1.0	(s)	134.9	309.8	444.7
2021	—	164.6	12.1	1.3	—	13.4	—	R 178.1	330.9	508.9
2022	—	198.2	19.2	1.5	—	20.7	—	218.9	357.3	576.2
2023	—	172.3	16.8	1.2	—	18.0	—	190.3	390.0	580.3

[a] Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2023, District of Columbia

Year	Primary energy										Electricity [j]	Total energy [g,h,i]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f,g]	Total [g,h,i]		
	Prices in dollars per million Btu											
1970	0.11	1.09	1.12	1.01	1.33	2.86	0.46	0.61	0.73	0.72	6.86	1.40
1975	1.25	1.96	2.39	2.66	2.70	4.85	2.02	2.28	1.45	2.11	12.49	4.63
1980	1.19	4.21	6.55	4.90	8.50	9.97	4.43	6.60	3.70	4.39	18.41	8.51
1985	1.33	6.62	6.53	10.81	8.50	10.28	5.16	6.34	4.19	5.87	22.82	12.67
1990	1.14	5.59	6.64	10.33	6.49	10.24	3.91	6.18	3.53	5.43	18.55	11.59
1995	1.25	6.01	4.60	10.19	4.97	10.81	3.16	4.95	2.87	5.67	20.89	13.86
2000	1.26	9.38	7.27	12.62	8.68	12.09	4.49	7.94	4.37	9.00	22.07	16.25
2005	2.30	12.52	13.62	17.78	15.08	18.42	—	15.31	6.84	12.58	26.74	20.77
2006	—	14.31	16.09	19.73	17.90	21.38	—	16.86	7.88	14.62	32.72	25.61
2007	2.45	13.33	17.66	21.51	19.98	22.69	—	18.01	8.70	13.51	35.20	26.40
2008	3.43	13.52	24.30	25.95	26.36	26.75	—	24.82	10.71	14.13	38.98	29.03
2009	3.13	12.55	15.51	20.95	20.96	18.63	—	15.78	8.05	12.69	38.86	28.05
2010	2.63	12.09	19.47	24.05	23.88	23.77	—	21.72	9.50	13.06	39.34	28.79
2011	3.26	12.05	24.43	27.41	28.00	30.20	—	28.30	11.42	13.76	37.82	28.52
2012	3.08	10.87	25.19	21.74	30.08	31.32	—	25.42	12.72	11.52	35.24	26.72
2013	3.15	11.30	24.90	21.40	30.24	30.43	—	R 25.17	12.45	11.82	35.00	25.99
2014	3.00	11.68	23.20	22.59	30.35	29.42	—	23.56	12.14	12.04	35.74	26.42
2015	3.03	10.60	14.51	13.62	16.93	21.32	—	16.60	—	R 10.92	35.19	25.40
2016	3.45	9.46	11.50	12.81	13.50	19.27	—	14.39	R 7.16	9.74	34.34	25.03
2017	4.09	10.46	13.92	16.76	16.88	22.00	—	17.90	0.57	10.33	34.17	24.61
2018	4.47	10.06	17.29	18.24	24.42	24.09	—	20.12	0.67	10.08	35.08	24.96
2019	5.11	10.85	16.04	14.56	22.82	22.73	—	19.46	1.13	10.67	35.93	25.67
2020	—	10.24	10.81	13.78	14.82	19.63	—	R 16.14	0.87	9.95	34.74	24.19
2021	—	12.49	16.81	21.11	23.37	26.24	—	20.60	0.69	12.33	38.09	27.35
2022	—	14.56	30.26	22.40	39.09	34.41	—	R 31.75	0.84	14.77	45.71	32.70
2023	—	13.81	23.29	18.14	34.86	30.61	—	26.19	1.01	13.77	49.65	34.79
	Expenditures in million dollars											
1970	(s)	12.9	8.5	(s)	0.1	1.0	14.8	24.3	(s)	37.3	45.3	82.6
1975	0.3	24.4	13.0	(s)	0.1	2.0	13.4	28.4	(s)	53.1	100.4	153.5
1980	2.5	58.0	24.7	(s)	(s)	2.1	1.0	27.9	0.1	88.5	154.3	242.8
1985	3.6	80.1	31.8	(s)	2.6	1.5	9.3	45.2	0.1	129.0	336.2	465.2
1990	1.6	75.9	23.0	(s)	0.3	3.8	5.4	32.5	0.2	110.2	332.4	442.5
1995	0.2	103.0	22.2	(s)	3.6	5.7	2.6	34.1	0.3	137.5	589.9	727.4
2000	0.2	170.7	23.8	(s)	12.0	3.4	(s)	39.2	0.3	210.4	643.1	853.5
2005	2.0	232.9	32.0	(s)	0.2	23.6	—	55.8	(s)	290.7	848.3	1,139.0
2006	—	251.0	32.5	0.1	0.3	7.3	—	40.2	(s)	291.1	1,008.2	1,299.3
2007	1.1	264.2	31.0	(s)	0.1	2.8	—	34.0	(s)	299.3	1,143.4	1,442.7
2008	1.3	255.9	28.3	0.1	(s)	8.3	—	36.7	(s)	293.9	1,214.4	1,508.4
2009	1.0	243.0	26.8	0.1	(s)	2.9	—	29.8	(s)	273.8	1,192.4	1,466.2
2010	0.2	227.4	20.4	0.1	(s)	27.1	—	47.6	(s)	275.2	1,236.3	1,511.5
2011	0.2	206.8	16.5	(s)	0.1	41.5	—	58.0	(s)	264.9	1,157.0	1,422.0
2012	0.2	171.9	18.5	0.2	(s)	1.1	—	19.9	(s)	192.1	1,047.6	1,239.6
2013	(s)	200.6	16.1	0.1	(s)	1.1	—	17.3	(s)	R 218.0	1,014.9	1,232.9
2014	0.1	213.1	13.3	0.1	(s)	1.0	—	14.4	(s)	227.7	1,042.4	1,270.1
2015	0.1	189.4	R 10.5	(s)	(s)	6.8	—	17.3	—	R 206.9	987.1	R 1,194.0
2016	0.1	154.6	7.4	(s)	(s)	7.3	—	R 14.8	(s)	169.5	980.6	1,150.1
2017	0.1	174.4	5.5	(s)	(s)	8.4	—	R 13.9	0.5	188.8	933.4	1,122.2
2018	0.2	173.2	9.5	(s)	(s)	9.4	—	18.9	0.6	192.9	985.8	1,178.6
2019	(s)	181.1	6.3	(s)	(s)	9.4	—	15.7	1.2	198.0	975.0	1,173.0
2020	—	159.5	2.9	(s)	(s)	8.1	—	11.0	0.8	171.3	807.8	979.1
2021	—	190.3	R 10.2	0.3	(s)	10.6	—	R 21.1	0.6	R 212.0	915.4	1,127.4
2022	—	233.1	R 18.8	0.3	(s)	13.5	—	32.6	0.8	266.5	1,137.0	1,403.6
2023	—	206.7	13.7	0.1	(s)	12.1	—	25.9	1.0	233.6	1,191.0	1,424.6

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[g] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[j] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: Expenditure totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2023, District of Columbia

	Primary energy													
	Coal				Petroleum						Biomass			
	Coking coal	Steam coal	Total	Natural gas [a]	Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e,f]	Total [f,g,h]	Electricity [i]	Total energy [f,g,h]
Year	Prices in dollars per million Btu													
1970	—	0.11	0.11	0.67	1.22	1.07	—	0.59	1.27	0.66	—	0.49	3.80	1.19
1975	—	1.25	1.25	1.36	2.50	2.89	—	1.82	3.07	2.08	—	1.63	8.42	4.29
1980	—	1.20	1.20	2.45	7.63	5.34	—	3.97	8.34	7.60	—	6.16	11.65	10.20
1985	—	—	—	—	7.51	12.14	10.28	5.16	7.31	8.56	—	8.56	17.86	17.08
1990	—	—	—	—	5.64	11.51	10.24	3.91	6.15	8.78	—	8.78	15.14	14.70
1995	—	—	—	—	5.05	9.12	10.81	3.16	6.94	8.29	—	8.29	12.78	11.08
2000	—	—	—	—	7.63	13.33	12.09	4.49	7.75	8.80	—	8.80	13.89	11.96
2005	—	—	—	—	13.73	19.63	18.42	—	12.92	16.45	—	16.45	41.41	28.28
2006	—	—	—	—	15.77	21.83	21.38	—	16.15	19.17	—	19.17	51.09	33.67
2007	—	—	—	—	17.65	25.52	22.69	—	14.80	18.77	—	18.77	27.32	23.60
2008	—	—	—	—	24.48	30.66	26.75	—	18.77	24.06	—	24.06	31.22	28.03
2009	—	—	—	—	14.78	25.34	18.63	—	11.28	11.93	—	11.93	24.56	13.83
2010	—	—	—	—	18.35	25.14	23.77	—	R 13.72	R 14.14	—	R 14.14	22.69	R 15.36
2011	—	—	—	—	24.17	29.02	30.20	—	R 16.56	R 17.37	—	R 17.37	20.19	R 17.78
2012	—	—	—	—	25.31	22.37	31.32	—	R 17.44	R 18.19	—	R 18.19	16.00	R 17.89
2013	—	—	—	—	24.48	21.97	30.43	—	R 16.46	R 17.16	—	R 17.16	16.23	R 17.03
2014	—	—	—	—	22.71	23.38	29.42	—	R 16.83	R 17.60	—	R 17.60	24.65	R 18.67
2015	—	—	—	—	14.51	—	21.32	—	R 14.43	R 14.71	—	R 14.71	25.75	R 16.44
2016	—	—	—	—	11.36	—	19.27	—	R 10.49	R 10.97	—	R 10.97	25.80	R 13.17
2017	—	—	—	—	14.96	15.92	22.00	—	11.55	12.14	—	12.14	24.12	13.82
2018	—	—	—	—	16.12	17.38	24.09	—	14.72	15.26	—	15.26	24.31	16.67
2019	—	—	—	—	14.95	13.68	22.73	—	14.55	15.07	—	15.07	24.10	16.58
2020	—	—	—	—	10.67	12.88	19.63	—	R 12.94	R 13.27	—	R 13.27	23.41	R 15.04
2021	—	—	—	—	14.67	20.15	26.24	—	R 14.39	R 15.10	—	R 15.10	23.05	R 16.57
2022	—	—	—	—	27.69	21.38	34.41	—	R 19.69	R 20.77	—	R 20.77	22.68	R 21.05
2023	—	—	—	—	23.27	17.08	30.61	—	18.12	19.24	—	19.24	31.81	21.53
	Expenditures in million dollars													
1970	—	1.1	1.1	0.3	2.7	(s)	—	12.2	0.3	15.2	—	16.6	34.1	50.6
1975	—	8.7	8.7	0.6	2.2	(s)	—	7.9	2.4	12.4	—	21.7	72.7	94.4
1980	—	0.7	0.7	0.9	8.5	0.1	—	1.3	13.6	23.6	—	25.2	133.4	158.6
1985	—	—	—	—	1.8	0.1	3.2	(s)	1.7	6.8	—	6.8	154.4	161.2
1990	—	—	—	—	0.1	0.1	4.8	(s)	1.5	6.5	—	6.5	153.7	160.2
1995	—	—	—	—	0.5	0.1	2.5	(s)	1.5	4.5	—	4.5	11.4	15.9
2000	—	—	—	—	1.5	0.2	1.5	(s)	1.8	5.0	—	5.0	12.9	17.9
2005	—	—	—	—	3.1	0.1	10.8	—	2.0	16.0	—	16.0	36.2	52.2
2006	—	—	—	—	3.8	0.1	12.4	—	2.5	18.9	—	18.9	41.8	60.7
2007	—	—	—	—	5.0	0.2	6.4	—	3.1	14.7	—	14.7	27.7	42.3
2008	—	—	—	—	4.3	0.1	9.0	—	3.6	17.0	—	17.0	27.4	44.3
2009	—	—	—	—	2.3	0.1	5.9	—	45.3	53.6	—	53.6	19.6	73.2
2010	—	—	—	—	1.0	0.2	3.9	—	R 61.5	R 66.6	—	R 66.6	17.8	R 84.4
2011	—	—	—	—	3.2	0.5	5.3	—	R 67.8	R 76.8	—	R 76.8	14.9	R 91.7
2012	—	—	—	—	3.3	0.3	5.4	—	R 75.6	R 84.6	—	R 84.6	11.9	R 96.6
2013	—	—	—	—	2.3	0.3	5.4	—	R 72.6	R 80.5	—	R 80.5	12.6	R 93.1
2014	—	—	—	—	2.5	0.2	6.7	—	R 72.2	R 81.6	—	R 81.6	20.4	R 102.0
2015	—	—	—	—	1.6	—	3.9	—	R 59.2	R 64.7	—	R 64.7	20.9	R 85.6
2016	—	—	—	—	2.6	—	3.5	—	R 35.2	R 41.3	—	R 41.3	16.9	R 58.2
2017	—	—	—	—	1.0	0.1	4.1	—	40.4	45.6	—	45.6	14.8	60.4
2018	—	—	—	—	1.5	0.2	4.6	—	48.2	54.5	—	54.5	16.0	70.4
2019	—	—	—	—	1.5	0.1	4.3	—	40.1	46.1	—	46.1	14.8	60.9
2020	—	—	—	—	1.4	0.1	3.8	—	34.7	39.9	—	39.9	14.9	54.8
2021	—	—	—	—	1.7	1.0	5.0	—	R 46.7	R 54.4	—	R 54.4	18.8	R 73.2
2022	—	—	—	—	3.3	1.0	6.7	—	R 64.1	R 75.1	—	R 75.1	14.1	R 89.2
2023	—	—	—	—	2.7	0.5	6.0	—	42.7	51.9	—	51.9	19.2	71.1

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[i] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET6. Transportation sector energy price and expenditure estimates, selected years, 1970-2023, District of Columbia

Year	Primary energy											Electricity [g]	Total energy [f]
			Petroleum										
	Coal	Natural gas[a]	Aviation gasoline	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Lubricants	Motor gasoline [e]	Residual fuel oil	Total	Total [f]		
	Prices in dollars per million Btu												
1970	0.11	—	—	1.32	1.01	0.73	5.08	2.86	0.45	2.74	2.74	—	2.74
1975	1.25	—	—	2.81	2.66	—	7.48	4.85	1.81	4.43	4.43	—	4.43
1980	—	—	—	7.70	4.90	6.46	14.36	9.97	4.20	9.40	9.40	12.62	9.44
1985	—	—	—	8.78	12.33	5.80	18.18	10.28	3.75	9.75	9.75	20.73	9.93
1990	—	—	—	9.33	12.24	5.47	20.61	10.24	2.88	10.20	10.20	17.73	10.34
1995	—	2.05	8.36	7.08	11.90	—	21.75	10.81	—	10.40	10.39	21.33	10.64
2000	—	3.89	10.87	11.14	15.88	—	23.20	12.09	—	12.08	12.06	22.15	12.29
2005	—	8.49	18.56	17.77	19.23	—	35.22	18.42	—	18.57	18.54	21.60	18.70
2006	—	9.27	22.31	20.03	21.42	—	43.88	21.38	—	21.63	21.59	31.30	22.13
2007	—	9.24	23.70	20.83	23.52	—	47.16	22.69	—	22.93	22.88	33.18	23.50
2008	—	15.15	27.23	28.38	27.25	—	55.12	26.75	—	27.50	27.46	41.08	28.36
2009	—	6.60	20.32	17.51	21.78	—	56.07	18.63	—	19.10	18.43	38.46	19.66
2010	—	4.80	25.19	21.76	25.63	—	58.80	23.77	—	23.71	22.61	32.10	23.23
2011	—	4.10	31.64	27.80	28.88	—	69.54	30.20	—	30.05	28.59	29.86	28.67
2012	—	9.12	33.04	28.71	23.29	—	72.11	31.32	—	31.11	29.75	26.40	29.51
2013	—	R 8.94	32.71	28.10	23.35	—	69.42	30.43	—	30.29	R 28.97	27.90	R 28.90
2014	—	R 8.84	33.16	27.94	24.56	—	69.44	29.42	—	29.41	R 28.33	25.78	R 28.16
2015	—	R 8.48	—	20.51	15.70	—	67.28	21.32	—	21.45	R 20.75	26.38	R 21.13
2016	—	R 8.83	—	17.09	14.89	—	65.78	19.27	—	19.25	R 18.63	27.92	R 19.22
2017	—	R 10.72	—	19.79	—	—	67.25	22.00	—	22.00	R 21.67	26.08	R 22.01
2018	—	R 11.03	—	23.57	20.30	—	72.37	24.09	—	24.27	R 23.88	27.96	R 24.16
2019	—	R 9.97	—	22.91	16.60	—	74.92	22.73	—	22.98	R 22.61	27.84	R 22.97
2020	—	R 9.92	—	19.69	15.54	—	75.34	19.63	—	19.88	R 19.71	28.14	R 20.39
2021	—	R 9.90	—	24.04	22.82	—	81.25	26.24	—	26.13	R 25.81	28.59	R 25.98
2022	—	R 12.44	—	37.50	23.36	—	97.37	34.41	—	35.25	R 34.76	24.93	R 34.19
2023	—	18.36	—	31.81	18.86	—	105.48	30.61	—	31.08	30.80	29.12	30.69
	Expenditures in million dollars												
1970	(s)	—	—	3.8	(s)	(s)	1.6	84.4	(s)	89.9	89.9	—	89.9
1975	(s)	—	—	13.4	(s)	—	2.1	144.4	4.0	164.0	164.0	—	164.0
1980	—	—	—	26.3	(s)	12.1	4.7	201.2	1.6	245.8	245.8	4.6	250.3
1985	—	—	—	46.0	(s)	0.2	5.4	200.6	4.8	257.0	257.0	9.2	266.1
1990	—	—	—	43.7	(s)	0.2	6.9	208.8	0.1	259.6	259.6	8.6	268.2
1995	—	(s)	0.2	26.2	(s)	—	6.9	224.9	—	258.1	258.2	12.4	270.6
2000	—	0.3	0.1	47.1	0.1	—	7.9	251.0	—	306.2	306.5	13.5	320.0
2005	—	0.6	0.4	55.9	(s)	—	10.1	287.7	—	354.1	354.6	24.0	378.6
2006	—	0.6	0.7	28.2	(s)	—	12.3	333.7	—	374.9	375.5	32.5	408.0
2007	—	0.6	0.7	33.1	(s)	—	13.6	347.4	—	394.9	395.5	36.8	432.3
2008	—	0.7	0.6	61.9	0.1	—	14.8	334.4	—	411.7	412.4	43.8	456.2
2009	—	5.7	0.3	30.1	0.1	—	13.5	245.6	—	289.6	295.2	40.5	335.7
2010	—	4.3	0.1	41.9	(s)	—	4.9	297.9	—	344.8	349.1	34.5	383.6
2011	—	3.7	0.1	63.4	0.1	—	5.6	382.3	—	451.5	455.2	32.5	R 487.6
2012	—	8.2	0.1	62.2	(s)	—	5.0	354.9	—	422.2	430.4	29.2	459.6
2013	—	R 7.9	0.1	R 54.7	0.1	—	4.8	349.2	—	409.0	R 416.9	31.0	R 447.9
2014	—	R 7.4	0.4	63.1	0.1	—	5.4	374.6	—	443.6	R 451.0	29.1	R 480.1
2015	—	R 7.2	—	R 39.7	1.0	—	5.6	274.5	—	320.9	R 328.1	30.0	R 358.1
2016	—	R 8.9	—	31.8	0.2	—	5.5	265.2	—	302.7	R 311.6	31.5	R 343.1
2017	—	R 4.3	—	25.3	—	—	4.1	262.6	—	292.0	R 296.3	29.8	R 326.1
2018	—	R 5.0	—	22.9	(s)	—	4.7	334.4	—	362.0	R 367.0	32.1	R 399.1
2019	—	R 4.6	—	50.6	(s)	—	5.3	306.3	—	362.2	R 366.8	33.2	R 400.0
2020	—	R 2.3	—	30.0	(s)	—	4.2	218.1	—	252.4	R 254.7	31.9	R 286.6
2021	—	R 2.8	—	R 56.4	(s)	—	5.3	308.1	—	R 369.8	R 372.6	26.5	R 399.2
2022	—	R 3.7	—	R 89.4	0.1	—	6.5	384.7	—	R 480.6	R 484.3	21.3	R 505.7
2023	—	5.7	—	74.2	(s)	—	5.3	354.5	—	434.0	439.7	29.9	469.7

[a] Transportation use of natural gas as vehicle fuel only.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET7. Electric power sector price and expenditure estimates, selected years, 1970-2023, District of Columbia

Year	Coal	Natural gas [a]	Petroleum: Distillate fuel oil	Petroleum: Petroleum coke	Petroleum: Residual fuel oil	Petroleum: Total	Nuclear fuel	Biomass: Wood and waste [b]	Electricity imports [c]	Total energy [d]
	Prices in dollars per million Btu									
1970	0.39	—	0.46	—	0.47	0.47	—	—	—	0.43
1975	1.50	—	2.11	—	2.01	2.01	—	—	—	1.92
1980	—	—	5.95	—	4.49	4.59	—	—	—	4.59
1985	—	—	5.43	—	3.94	4.24	—	—	—	4.24
1990	—	—	4.29	—	3.02	3.12	—	—	—	3.12
1995	—	—	3.77	—	2.48	2.67	—	—	—	2.67
2000	—	—	6.23	—	4.25	5.10	—	—	—	5.10
2005	—	—	11.60	—	—	11.60	—	—	—	11.60
2006	—	—	13.88	—	—	13.88	—	—	—	13.88
2007	—	—	15.22	—	—	15.22	—	—	—	15.22
2008	—	—	20.12	—	—	20.12	—	—	—	20.12
2009	—	—	13.94	—	—	13.94	—	—	—	13.94
2010	—	—	16.22	—	—	16.22	—	—	—	16.22
2011	—	4.86	21.93	—	—	21.93	—	—	—	15.25
2012	—	—	22.91	—	—	22.91	—	—	—	22.91
2013	—	—	—	—	—	—	—	—	—	—
2014	—	—	—	—	—	—	—	—	—	—
2015	—	—	—	—	—	—	—	2.62	—	2.62
2016	—	2.97	—	—	—	—	—	2.54	—	2.54
2017	—	—	—	—	—	—	—	—	9.18	9.18
2018	—	—	—	—	—	—	—	—	10.74	10.74
2019	—	—	—	—	—	—	—	—	—	—
2020	—	—	—	—	—	—	—	—	—	—
2021	—	—	—	—	—	—	—	—	—	—
2022	—	—	—	—	—	—	—	—	—	—
2023	—	—	—	—	—	—	—	—	—	—
	Expenditures in million dollars									
1970	6.8	—	3.1	—	8.1	11.2	—	—	—	18.0
1975	4.2	—	1.1	—	26.4	27.5	—	—	—	31.7
1980	—	—	3.8	—	41.3	45.1	—	—	—	45.1
1985	—	—	2.1	—	6.2	8.3	—	—	—	8.3
1990	—	—	1.8	—	15.2	17.0	—	—	—	17.0
1995	—	—	1.6	—	6.3	7.9	—	—	—	7.9
2000	—	—	6.1	—	5.6	11.7	—	—	—	11.7
2005	—	—	36.4	—	—	36.4	—	—	—	36.4
2006	—	—	18.6	—	—	18.6	—	—	—	18.6
2007	—	—	17.4	—	—	17.4	—	—	—	17.4
2008	—	—	19.0	—	—	19.0	—	—	—	19.0
2009	—	—	6.9	—	—	6.9	—	—	—	6.9
2010	—	—	40.7	—	—	40.7	—	—	—	40.7
2011	—	5.0	34.9	—	—	34.9	—	—	—	39.8
2012	—	—	3.4	—	—	3.4	—	—	—	3.4
2013	—	—	—	—	—	—	—	—	—	—
2014	—	—	—	—	—	—	—	—	—	—
2015	—	—	—	—	—	—	—	1.3	—	1.3
2016	—	(s)	—	—	—	—	—	2.0	—	2.0
2017	—	—	—	—	—	—	—	—	0.2	0.2
2018	—	—	—	—	—	—	—	—	0.1	0.1
2019	—	—	—	—	—	—	—	—	—	—
2020	—	—	—	—	—	—	—	—	—	—
2021	—	—	—	—	—	—	—	—	—	—
2022	—	—	—	—	—	—	—	—	—	—
2023	—	—	—	—	—	—	—	—	—	—

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[c] Electricity imported from Canada and Mexico.
[d] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET1. Primary energy, electricity, and total energy price and expenditure estimates, selected years, 1970-2023, Florida

	Primary energy														Electric power sector [i,k,l]	Electricity [m]	Total energy [h,i,j]
	Coal				Petroleum								Biomass				
	Coking coal	Steam coal	Total	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Nuclear fuel	Wood and waste [g,h]	Total [h,i,j,k]			
Year	Prices in dollars per million Btu																
1970	—	0.31	0.31	0.49	1.08	1.93	0.73	2.81	0.33	1.62	1.51	—	1.87	1.19	0.33	5.67	2.33
1975	—	1.01	1.01	1.00	2.53	3.84	2.03	4.39	1.84	3.20	2.99	0.17	1.98	2.42	1.35	10.46	4.57
1980	—	1.80	1.80	2.19	6.91	6.57	6.46	9.80	3.61	6.88	6.64	0.35	3.11	5.08	2.40	16.24	8.75
1985	—	2.12	2.12	3.73	6.92	11.30	5.90	9.03	3.90	7.41	7.49	0.65	3.47	5.19	2.22	22.59	10.74
1990	—	1.85	1.85	3.21	7.50	11.19	5.64	8.85	2.92	6.29	6.96	0.64	1.07	4.67	1.94	20.62	10.20
1995	—	1.79	1.79	2.83	7.24	10.32	3.91	8.54	2.51	6.75	6.73	0.53	1.03	4.20	1.72	20.55	10.07
2000	—	1.57	1.57	5.01	9.92	14.33	6.49	11.04	4.26	6.79	8.84	0.44	0.80	5.71	2.38	20.24	12.07
2005	—	2.33	2.33	9.07	16.51	20.06	12.68	17.39	6.89	5.28	14.28	0.47	2.02	9.82	4.64	25.68	17.97
2006	—	2.59	2.59	9.13	18.75	22.27	14.64	19.77	7.72	6.86	16.84	0.52	2.26	10.90	4.77	30.62	20.75
2007	—	2.58	2.58	9.56	19.98	24.58	16.10	21.53	9.21	8.60	18.56	0.51	2.19	11.70	5.26	30.28	21.67
2008	—	2.99	2.99	10.60	27.11	29.91	22.43	25.56	13.63	11.68	23.94	0.50	2.68	14.11	5.96	31.48	25.21
2009	—	3.40	3.40	8.13	17.36	25.19	12.69	18.22	9.64	11.71	16.83	0.65	2.66	10.39	5.22	33.68	21.32
2010	—	3.48	3.48	6.91	20.70	28.34	16.44	21.80	10.95	R 16.41	R 19.84	0.68	2.83	R 11.56	4.84	31.01	R 22.03
2011	—	3.55	3.55	6.33	27.18	31.13	22.73	27.42	14.76	R 21.95	R 25.77	0.77	2.97	R 13.92	4.53	31.09	R 25.48
2012	—	3.51	3.51	5.27	28.14	25.46	23.23	28.03	14.66	R 27.41	R 26.66	0.71	2.77	R 13.87	4.00	30.58	R 25.58
2013	—	3.44	3.44	5.59	27.76	25.47	22.37	27.60	14.55	R 21.50	R 26.11	0.77	2.82	R 13.71	3.91	29.95	R 25.12
2014	—	3.33	3.33	6.04	26.92	28.47	21.08	26.44	9.56	R 24.39	R 25.04	0.74	R 3.29	R 13.28	4.10	31.55	R 25.00
2015	—	3.11	3.11	4.91	18.77	19.88	12.30	18.85	9.52	R 21.71	R 17.63	0.66	2.79	R 9.85	3.46	30.75	R 20.23
2016	—	3.03	3.03	4.39	15.83	18.92	10.12	17.14	9.27	R 17.64	R 15.60	0.65	2.61	R 8.87	3.12	29.03	R 18.44
2017	—	2.98	2.98	4.82	18.13	23.82	12.27	19.23	10.26	20.84	17.72	0.69	2.49	10.00	3.37	30.53	20.07
2018	—	2.94	2.94	5.01	21.72	25.63	15.47	20.92	12.78	22.14	19.89	0.63	2.33	11.24	3.52	30.24	21.42
2019	—	2.91	2.91	4.42	20.86	21.31	14.51	19.45	11.98	R 23.55	18.79	0.53	2.42	10.54	3.09	30.61	R 20.80
2020	—	2.54	2.54	R 3.88	17.29	19.79	10.58	16.62	8.70	R 20.18	16.15	0.54	1.90	8.54	2.67	29.49	R 19.28
2021	—	2.71	2.71	R 5.68	R 22.23	26.70	14.39	22.89	12.15	R 24.90	21.18	0.55	2.33	12.03	4.05	31.26	22.53
2022	—	3.74	3.74	R 8.82	R 34.87	27.93	24.88	29.50	16.89	R 32.52	R 29.30	0.48	2.49	R 17.10	R 6.55	36.67	R 29.35
2023	—	3.45	3.45	4.87	29.52	24.53	20.19	26.69	14.80	28.04	25.72	0.49	2.44	14.17	3.39	39.66	28.12
	Expenditures in million dollars																
1970	—	35.8	35.8	170.1	98.0	57.6	96.6	1,125.2	112.8	118.9	1,609.1	—	19.5	1,834.5	-196.0	971.7	2,610.2
1975	—	135.0	135.0	283.6	343.6	108.6	275.6	2,319.6	915.2	161.5	4,124.1	15.8	20.9	4,579.3	-1,114.2	2,532.9	5,998.0
1980	—	405.3	405.3	693.8	1,183.7	259.2	1,302.3	5,627.4	2,193.5	378.6	10,944.7	63.8	67.2	12,174.8	-2,439.2	5,029.8	14,765.4
1985	—	999.4	999.4	1,081.0	1,282.3	416.8	762.5	5,948.9	911.5	562.2	9,884.3	162.2	93.1	12,254.2	-2,241.8	8,548.0	18,560.4
1990	—	1,172.4	1,172.4	1,082.5	1,542.6	325.6	1,013.5	6,619.5	998.1	402.8	10,902.0	147.8	115.9	13,426.2	-2,547.8	10,097.4	20,975.9
1995	—	1,229.2	1,229.2	1,616.6	1,674.5	297.3	621.8	7,005.7	746.8	408.6	10,754.7	160.3	166.1	13,926.9	-2,776.6	11,745.0	22,895.4
2000	—	1,196.8	1,196.8	2,826.0	2,753.3	393.8	1,292.6	10,239.0	1,747.2	448.0	16,873.9	147.7	111.5	21,155.8	-4,465.2	13,525.5	30,216.1
2005	—	1,567.4	1,567.4	7,208.3	5,858.7	523.3	2,005.5	18,735.7	2,645.1	713.9	30,482.1	139.8	275.5	39,673.1	-9,387.5	19,713.4	49,999.0
2006	—	1,801.3	1,801.3	8,251.2	6,770.5	591.3	2,294.3	21,530.3	1,986.6	924.3	34,097.4	172.2	318.9	44,641.0	-9,728.4	23,845.0	58,757.6
2007	—	1,857.0	1,857.0	8,910.5	6,457.9	573.3	2,845.3	23,110.4	2,245.9	921.0	36,153.9	156.9	315.0	47,393.2	-10,771.7	23,878.4	60,500.0
2008	—	2,072.6	2,072.6	10,165.9	7,903.9	632.4	4,911.6	26,066.0	1,686.9	1,041.8	42,242.7	167.9	397.1	55,046.2	-11,909.9	24,295.9	67,432.2
2009	—	1,976.4	1,976.4	8,701.5	R 4,555.2	524.2	2,264.6	18,549.1	831.6	840.5	R 27,565.3	196.8	374.2	R 38,814.2	-10,157.9	25,824.8	R 54,481.1
2010	—	2,218.8	2,218.8	7,967.6	R 6,117.8	600.7	3,965.7	21,691.5	1,612.2	R 1,261.7	R 35,249.6	169.0	475.3	R 46,080.3	-9,754.9	24,459.8	R 60,785.2
2011	—	1,959.7	1,959.7	7,700.7	R 7,477.4	621.9	5,563.5	26,664.7	1,487.2	R 1,361.7	R 43,176.4	177.9	501.7	R 53,516.5	-8,673.7	23,880.2	R 68,723.1
2012	—	1,697.6	1,697.6	6,982.5	R 7,488.1	446.1	5,658.5	27,205.2	1,095.7	R 1,262.7	R 43,156.2	132.8	462.3	R 52,431.3	-7,510.1	23,028.6	R 67,949.8
2013	—	1,736.5	1,736.5	6,852.9	R 7,798.1	427.1	5,627.2	27,377.0	892.3	R 1,301.7	R 43,423.2	212.6	486.3	R 52,711.5	-7,411.4	22,678.3	R 67,978.3
2014	—	1,857.5	1,857.5	R 7,470.9	R 7,708.5	504.2	5,546.5	26,538.5	571.4	R 1,372.1	R 42,241.3	215.7	R 554.1	R 52,339.6	-8,072.7	24,339.3	R 68,606.2
2015	—	1,449.8	1,449.8	R 6,675.5	R 5,728.5	346.0	3,414.0	19,873.9	532.2	R 1,334.6	R 31,229.2	193.5	478.8	R 40,026.8	-6,956.7	24,719.4	R 57,789.5
2016	—	1,290.2	1,290.2	R 6,127.9	R 4,930.7	367.3	2,893.9	18,473.3	547.5	R 1,199.8	R 28,412.4	198.6	421.9	R 36,451.1	-6,273.8	23,348.4	R 53,525.7
2017	—	1,215.5	1,215.5	R 6,759.9	R 5,662.6	458.4	3,660.5	21,054.1	629.1	1,185.6	R 32,650.4	210.5	420.3	R 41,256.5	-6,707.6	24,286.1	R 58,835.1
2018	—	964.5	964.5	R 7,482.4	R 7,284.1	508.3	R 4,785.4	23,282.6	1,166.9	1,395.1	R 38,422.4	193.0	377.2	R 47,439.6	-7,046.6	24,613.6	R 65,006.6
2019	—	679.6	679.6	R 6,899.3	R 6,859.5	414.7	R 4,640.7	21,626.5	659.3	R 1,345.0	R 35,545.6	161.8	361.9	R 43,648.3	-6,006.8	25,103.4	R 62,745.0
2020	—	458.9	458.9	R 6,215.7	R 5,277.9	391.2	R 2,021.2	16,280.5	73.0	R 1,200.0	R 25,243.8	167.0	252.6	R 32,338.0	-5,188.0	24,394.2	R 51,544.2
2021	—	543.1	543.1	R 8,948.1	R 7,202.5	548.5	R 3,986.0	24,663.2	858.9	R 1,474.1	R 38,733.2	168.1	R 313.5	R 48,706.0	-7,730.9	25,764.3	R 66,739.5
2022	—	642.7	642.7	R 14,479.5	R 11,766.5	559.1	R 7,764.3	32,346.5	1,212.3	R 1,957.2	R 55,605.9	155.6	R 323.4	R 71,207.0	R -12,874.5	31,129.1	R 89,461.6
2023	—	446.0	446.0	8,064.6	9,670.2	454.2	6,594.9	30,149.4	878.5	1,688.0	49,435.2	153.7	229.6	58,329.1	-6,523.9	33,953.4	85,758.5

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[l] Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
[m] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.
Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET2. Total end-use energy price and expenditure estimates, selected years, 1970-2023, Florida

Year	Primary energy											Electricity [k]	Total energy [h,i,j]
			Petroleum							Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g,h]	Total [h,i,j]		
	Prices in dollars per million Btu												
1970	—	0.70	1.10	1.93	0.73	2.81	0.35	1.62	1.90	1.87	1.73	5.67	2.33
1975	0.53	1.29	2.62	3.84	2.03	4.39	1.73	3.20	3.55	1.98	3.24	10.46	4.57
1980	1.77	2.95	7.05	6.57	6.46	9.80	3.32	6.88	7.73	3.11	7.07	16.24	8.75
1985	2.07	4.38	6.97	11.30	5.90	9.03	3.93	7.41	7.94	3.47	7.42	22.59	10.74
1990	1.89	4.10	7.64	11.19	5.64	8.85	2.75	6.29	7.71	1.31	6.94	20.62	10.20
1995	1.86	3.98	7.40	10.32	3.91	8.54	2.60	6.75	7.41	1.24	6.55	20.55	10.07
2000	1.68	6.38	10.19	14.33	6.49	11.04	4.21	9.36	9.94	1.52	9.10	20.24	12.07
2005	2.97	11.89	16.66	20.06	12.68	17.39	7.01	11.34	16.07	2.76	15.03	25.68	17.97
2006	3.31	13.22	18.83	22.27	14.64	19.77	7.92	12.79	18.24	2.62	17.00	30.62	20.75
2007	3.25	12.23	20.08	24.58	16.10	21.53	9.53	13.64	19.83	2.55	18.28	30.28	21.67
2008	3.88	13.41	27.19	29.91	22.43	25.56	13.65	17.54	24.95	2.90	22.67	31.48	25.21
2009	3.79	10.97	17.41	25.19	12.69	18.22	9.68	18.15	17.39	2.94	16.02	33.68	21.32
2010	3.84	10.11	20.89	28.34	16.44	21.80	10.59	R 25.97	R 20.44	3.03	R 18.44	31.01	R 22.03
2011	4.31	10.04	27.26	31.13	22.73	27.42	14.48	R 30.51	R 26.10	3.20	R 23.24	31.09	R 25.48
2012	4.53	8.90	28.20	25.46	23.23	28.03	14.45	R 31.88	R 26.81	3.00	R 23.59	30.58	R 25.58
2013	4.40	R 9.07	27.80	25.47	22.37	27.60	14.44	R 32.02	R 26.44	3.06	R 23.25	29.95	R 25.12
2014	4.29	9.41	26.97	28.47	21.08	26.44	9.51	R 31.76	R 25.26	3.59	R 22.44	31.55	R 25.00
2015	3.92	8.93	18.81	19.88	12.30	18.85	9.46	R 28.71	R 17.79	2.88	R 16.11	30.75	R 20.23
2016	3.51	8.38	15.88	18.92	10.12	17.14	9.03	R 24.89	R 15.78	2.65	R 14.38	29.03	R 18.44
2017	4.00	R 8.81	18.19	23.82	12.27	19.23	10.19	24.68	17.81	2.55	16.17	30.53	20.07
2018	4.55	9.14	R 21.76	25.63	15.47	20.92	12.71	28.60	20.04	2.40	18.19	30.24	21.42
2019	4.60	R 8.98	20.89	21.31	14.51	19.45	11.94	R 29.37	18.90	2.47	17.14	30.61	R 20.80
2020	4.14	R 8.49	R 17.33	19.79	10.58	16.62	8.57	R 26.55	16.30	1.95	14.70	29.49	R 19.28
2021	4.38	R 9.28	R 22.27	26.70	14.39	22.89	12.12	R 28.53	21.27	2.39	19.16	31.26	22.53
2022	7.64	R 12.23	R 34.98	27.93	24.88	29.50	16.85	R 37.16	R 29.41	2.49	R 26.53	36.67	R 29.35
2023	7.44	10.57	29.56	24.53	20.19	26.69	14.80	33.12	25.84	2.36	23.62	39.66	28.12
	Expenditures in million dollars												
1970	—	97.7	96.7	57.6	96.6	1,125.2	26.3	118.9	1,521.3	19.5	1,638.5	971.7	2,610.2
1975	0.3	180.7	277.1	108.6	275.3	2,319.6	121.3	161.5	3,263.3	20.9	3,465.1	2,532.9	5,998.0
1980	30.7	435.9	1,076.4	259.2	1,302.3	5,627.4	557.8	378.6	9,201.7	67.2	9,735.6	5,029.8	14,765.4
1985	51.7	536.8	1,240.9	416.8	762.5	5,948.9	365.2	562.2	9,296.6	93.1	10,012.4	8,548.0	18,560.4
1990	57.2	597.1	1,487.0	325.6	1,013.5	6,619.5	268.6	402.8	10,116.9	101.6	10,878.5	10,097.4	20,975.9
1995	61.8	779.3	1,631.5	297.3	621.8	7,005.7	221.7	408.6	10,186.6	122.6	11,150.4	11,745.0	22,895.4
2000	54.3	1,188.5	2,617.2	393.8	1,292.6	10,239.0	356.8	436.8	15,336.3	111.5	16,690.6	13,525.5	30,216.1
2005	81.8	1,692.2	5,679.5	523.3	2,005.5	18,735.7	732.9	598.4	28,275.2	236.3	30,285.6	19,713.4	49,999.0
2006	95.0	1,857.2	6,671.6	591.3	2,294.3	21,530.3	823.4	812.4	32,723.3	237.1	34,912.6	23,845.0	58,757.6
2007	90.8	1,683.2	6,346.3	573.3	2,845.3	23,110.4	902.0	834.6	34,612.0	235.6	36,621.5	23,878.4	60,500.0
2008	105.8	1,866.4	7,809.4	632.4	4,911.6	26,066.0	492.1	968.5	40,880.1	283.9	43,136.3	24,295.9	67,432.2
2009	91.1	1,483.5	R 4,465.1	524.2	2,264.6	18,549.1	256.0	766.3	R 26,825.3	256.4	R 28,656.3	25,824.8	R 54,481.1
2010	83.4	1,546.9	R 5,917.0	600.7	3,965.7	21,691.5	1,009.5	R 1,163.0	R 34,347.4	347.6	R 36,325.4	24,459.8	R 60,785.2
2011	54.4	1,584.2	R 7,375.7	621.9	5,563.5	26,664.7	1,313.5	R 1,285.8	R 42,825.2	379.1	R 44,842.9	23,880.2	R 68,723.1
2012	57.9	1,516.4	R 7,436.5	446.1	5,658.5	27,205.2	1,005.5	R 1,244.5	R 42,996.2	350.8	R 44,921.2	23,028.6	R 67,949.8
2013	66.0	R 1,598.8	R 7,738.6	427.1	5,627.2	27,377.0	849.1	R 1,245.9	R 43,264.8	370.5	R 45,300.0	22,678.3	R 67,978.3
2014	68.7	R 1,685.8	R 7,645.9	504.2	5,546.5	26,538.5	542.9	R 1,337.9	R 42,116.0	R 396.4	R 44,266.8	24,339.3	R 68,606.2
2015	58.8	R 1,574.9	R 5,685.3	346.0	3,414.0	19,873.9	494.5	R 1,300.2	R 31,113.9	322.5	R 33,070.1	24,719.4	R 57,789.5
2016	45.9	R 1,567.5	R 4,892.1	367.3	2,893.9	18,473.3	488.1	R 1,167.0	R 28,281.7	282.1	R 30,177.3	23,348.4	R 53,525.7
2017	56.8	R 1,668.0	R 5,621.5	458.4	3,660.5	21,054.1	602.1	1,159.3	R 32,555.9	268.3	R 34,549.0	24,286.1	R 58,835.1
2018	58.9	R 1,816.5	R 7,236.4	508.3	R 4,785.4	23,282.6	1,120.6	1,344.9	R 38,278.2	239.4	R 40,393.0	24,613.6	R 65,006.6
2019	47.4	R 1,879.3	R 6,831.2	414.7	R 4,640.7	21,626.5	642.4	R 1,313.8	R 35,469.2	245.7	R 37,641.6	25,103.4	R 62,745.0
2020	22.6	R 1,767.8	R 5,263.4	391.2	R 2,021.2	16,280.5	66.7	R 1,165.5	R 25,188.5	171.1	R 27,150.0	24,394.2	R 51,544.2
2021	25.9	R 2,100.1	R 7,161.3	548.5	R 3,986.0	24,663.2	843.7	R 1,432.0	R 38,634.6	R 214.5	R 40,975.1	25,764.3	R 66,739.5
2022	34.4	R 2,657.9	R 11,643.6	559.1	R 7,764.3	32,346.5	1,202.1	R 1,892.3	R 55,407.9	R 232.3	R 58,332.5	31,129.1	R 89,461.6
2023	17.4	2,309.4	9,622.4	454.2	6,594.9	30,149.4	876.6	1,631.1	49,328.7	149.7	51,805.2	33,953.4	85,758.5

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. · Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2023, Florida

Year	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
	Prices in dollars per million Btu									
1970	—	2.42	1.25	3.06	1.63	2.07	0.73	2.12	6.10	4.65
1975	—	2.54	2.62	6.32	3.27	4.55	1.45	3.50	10.92	9.06
1980	3.12	4.49	6.92	10.34	8.92	8.82	3.70	6.02	16.74	14.10
1985	3.31	6.72	6.73	10.70	7.25	9.14	4.19	6.78	24.73	20.71
1990	3.10	7.82	9.59	12.55	8.50	11.87	3.53	8.00	22.78	20.86
1995	3.00	9.21	7.13	14.27	9.19	12.74	2.87	9.61	22.93	21.71
2000	2.99	11.67	9.92	18.09	9.03	16.99	4.37	12.84	22.78	22.00
2005	4.61	19.42	15.69	24.64	14.84	23.63	6.83	20.49	28.20	27.70
2006	5.63	20.88	17.33	27.59	18.32	26.71	7.87	22.51	33.21	32.56
2007	4.51	19.90	18.59	30.26	20.99	29.69	8.70	22.64	32.89	32.31
2008	—	20.42	24.52	36.42	23.27	36.02	10.72	24.85	34.16	33.60
2009	—	19.58	17.37	31.29	21.85	30.87	8.05	20.94	36.30	35.18
2010	—	17.47	20.48	36.11	24.28	35.46	9.50	20.96	33.52	32.56
2011	—	17.89	27.36	39.44	27.64	39.08	11.42	21.80	33.73	32.89
2012	—	18.00	27.27	37.31	29.69	37.13	12.71	21.02	33.48	32.71
2013	—	18.14	28.29	37.18	29.52	37.04	12.45	20.31	33.04	32.20
2014	—	18.47	27.34	42.27	29.88	41.90	12.14	21.51	34.84	33.93
2015	—	18.87	17.90	36.65	16.97	36.29	8.37	23.17	33.94	33.42
2016	—	19.74	15.49	36.46	13.53	36.06	7.15	23.97	32.19	31.79
2017	—	20.48	17.64	40.12	16.92	39.90	8.00	26.06	34.02	33.62
2018	—	20.76	19.24	41.39	24.44	41.16	8.85	26.40	33.82	33.42
2019	—	21.18	18.78	36.98	22.82	36.74	8.51	25.36	34.30	33.84
2020	—	20.82	16.38	33.66	14.82	33.51	7.04	24.19	33.03	32.58
2021	—	22.23	19.57	40.65	23.41	40.32	8.45	R 26.60	34.87	34.41
2022	—	R 25.76	29.58	43.69	37.48	43.48	13.07	R 29.91	40.75	R 40.18
2023	—	24.51	28.06	42.25	33.35	42.02	11.95	28.46	44.57	43.75
	Expenditures in million dollars									
1970	—	37.0	7.4	33.9	22.3	63.5	1.6	102.1	512.1	614.2
1975	—	41.7	16.7	63.3	13.4	93.4	4.1	139.2	1,295.3	1,434.5
1980	0.2	72.7	49.0	89.1	39.1	177.2	50.1	300.1	2,555.0	2,855.1
1985	2.0	100.9	24.9	124.6	35.5	185.0	72.8	360.7	4,566.8	4,927.5
1990	0.1	109.9	15.5	121.7	7.4	144.6	34.9	289.5	5,527.2	5,816.7
1995	(s)	143.2	9.4	109.3	11.0	129.8	10.9	283.9	6,711.3	6,995.2
2000	0.1	195.7	6.9	154.2	5.1	166.2	10.7	372.7	7,696.3	8,069.0
2005	(s)	324.9	9.0	209.2	6.9	225.1	5.9	555.9	11,140.7	11,696.6
2006	(s)	336.9	8.5	224.6	5.6	238.6	6.0	581.6	13,263.6	13,845.2
2007	(s)	310.5	5.4	221.9	2.4	229.7	7.4	547.6	13,222.6	13,770.2
2008	—	328.6	4.0	266.5	1.9	272.3	10.1	611.1	13,278.7	13,889.8
2009	—	307.0	3.8	288.4	2.2	294.4	45.9	647.4	14,302.6	14,950.0
2010	—	335.3	5.3	326.0	4.2	335.5	58.1	728.9	13,982.2	14,711.2
2011	—	297.8	4.3	280.3	1.7	286.3	67.7	651.8	13,389.0	14,040.8
2012	—	263.5	2.2	194.2	0.6	197.0	63.0	523.5	12,806.8	13,330.3
2013	—	282.8	1.8	184.9	0.6	187.2	80.6	550.6	12,770.1	13,320.7
2014	—	316.7	2.8	228.8	1.3	232.9	79.5	629.1	13,854.5	14,483.7
2015	—	298.0	R 1.5	190.3	0.3	192.1	0.9	490.9	14,216.6	14,707.5
2016	—	311.2	1.1	202.7	0.4	204.2	0.8	516.2	13,545.3	R 14,061.5
2017	—	315.9	0.9	251.0	0.2	252.0	0.6	568.5	14,097.7	R 14,666.3
2018	—	364.7	1.1	280.3	0.5	281.9	1.0	647.6	14,485.3	15,132.9
2019	—	360.2	1.3	234.8	0.4	236.5	1.0	597.7	14,882.8	15,480.5
2020	—	370.4	0.7	219.2	0.3	220.1	R 0.6	R 591.1	15,021.4	15,612.5
2021	—	444.4	1.6	260.0	0.4	262.1	R 0.8	R 707.2	15,518.2	R 16,225.4
2022	—	R 498.6	2.5	260.3	0.6	263.4	R 1.4	R 763.4	18,664.4	R 19,427.7
2023	—	464.9	2.1	234.0	0.9	236.9	1.1	703.0	20,652.0	21,354.9

[a] Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2023, Florida

Year	Primary energy										Electricity [j]	Total energy [g,h,i]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f,g]	Total [g,h,i]		
	Prices in dollars per million Btu											
1970	—	0.89	0.98	1.25	0.61	2.81	0.33	1.23	0.73	1.10	6.24	3.34
1975	—	1.58	2.26	2.43	2.38	4.39	1.85	2.49	1.45	2.08	11.44	6.83
1980	1.77	3.21	6.30	5.23	6.41	9.80	3.71	6.00	3.70	4.73	17.38	11.88
1985	2.04	4.80	6.22	11.07	7.25	9.03	4.08	7.31	4.19	6.36	22.03	15.42
1990	1.89	4.65	5.57	10.15	8.50	8.85	3.09	6.40	3.33	5.67	19.57	14.81
1995	1.86	4.98	4.36	9.12	9.19	8.54	2.71	6.13	2.50	5.42	18.80	15.49
2000	1.68	6.96	7.38	12.39	9.03	11.04	4.43	9.57	3.30	7.82	18.48	15.96
2005	2.97	12.80	13.20	17.17	14.84	17.39	7.28	14.23	3.45	13.27	23.91	21.37
2006	3.31	13.48	15.18	19.04	18.32	19.77	8.26	16.48	3.23	14.60	29.04	25.89
2007	3.25	12.62	16.53	21.23	20.99	21.53	9.75	18.85	3.54	14.64	28.56	25.76
2008	—	14.01	24.20	25.51	23.27	25.56	—	24.76	4.16	17.72	29.70	27.25
2009	—	10.76	14.22	19.59	21.85	18.22	9.51	16.14	5.55	12.59	31.56	27.62
2010	—	10.35	18.02	22.98	24.28	21.80	11.98	20.21	6.50	13.98	28.61	25.32
2011	—	10.97	24.19	26.75	27.64	27.42	16.75	25.44	7.80	15.58	28.87	26.11
2012	—	10.22	24.81	20.66	29.69	28.03	18.08	23.66	8.02	14.28	28.32	25.42
2013	—	10.68	24.30	20.72	29.52	27.60	18.15	23.71	8.44	14.62	27.52	24.66
2014	—	11.09	22.39	22.55	29.88	26.44	17.01	22.91	R 8.05	R 14.45	28.92	25.66
2015	—	10.62	13.86	13.02	16.97	18.85	9.40	16.42	R 1.61	13.17	27.85	24.09
2016	—	10.15	11.97	12.13	13.53	17.14	—	15.02	R 0.95	12.36	26.09	22.38
2017	—	10.62	14.01	16.12	16.92	19.23	—	R 17.17	R 0.76	13.49	27.40	23.76
2018	—	10.90	17.19	17.58	24.44	20.92	—	19.31	R 0.91	R 14.53	26.93	R 23.66
2019	—	11.20	15.81	13.85	22.82	19.45	—	17.56	R 1.42	13.94	27.16	23.73
2020	—	11.17	10.62	13.05	14.82	16.62	—	14.53	R 1.41	12.68	25.92	22.55
2021	—	11.72	16.17	20.34	23.41	22.89	—	20.93	R 0.74	15.27	27.86	24.52
2022	—	R 13.98	28.28	21.58	37.48	29.50	—	27.96	R 0.86	R 18.62	32.81	R 28.94
2023	—	13.18	22.40	17.29	33.35	26.69	—	24.29	1.03	16.57	35.02	30.11
	Expenditures in million dollars											
1970	—	24.9	11.7	18.3	0.5	20.4	3.1	53.9	(s)	78.9	345.9	424.8
1975	—	53.9	29.3	32.2	0.5	23.9	18.0	104.0	0.1	158.0	894.1	1,052.2
1980	0.3	103.6	70.7	59.7	1.0	69.0	34.4	234.9	1.2	340.1	1,626.2	1,966.2
1985	4.4	163.4	147.8	170.9	43.0	64.9	55.7	482.4	1.7	652.2	3,103.2	3,755.4
1990	0.2	183.1	125.0	130.5	6.0	65.7	45.9	373.1	3.9	560.4	3,723.4	4,283.8
1995	0.1	215.2	74.7	92.7	5.0	4.4	2.3	179.1	1.6	396.0	4,181.3	4,577.3
2000	0.4	369.3	113.4	140.0	1.4	17.4	0.4	272.7	1.9	644.4	4,912.4	5,556.7
2005	(s)	766.1	272.0	175.2	4.4	34.6	16.0	502.2	1.8	1,270.1	7,293.5	8,563.6
2006	(s)	704.2	328.6	184.2	1.8	45.7	4.2	564.6	1.6	1,270.5	9,047.7	10,318.2
2007	(s)	667.8	220.5	211.5	1.5	74.9	2.5	510.9	2.2	1,181.0	9,154.1	10,335.1
2008	—	735.5	402.0	231.9	0.6	81.9	—	716.4	2.6	1,454.5	9,446.4	10,900.9
2009	—	558.6	254.6	156.3	0.9	61.8	0.5	474.0	7.1	1,039.8	9,936.6	10,976.4
2010	—	573.1	291.5	184.3	2.1	201.9	2.7	682.6	8.3	1,264.0	8,941.6	10,205.6
2011	—	596.3	351.1	185.0	1.9	131.5	1.2	670.7	9.5	1,276.5	9,039.8	10,316.3
2012	—	569.0	360.9	172.6	0.5	53.5	0.7	588.1	9.2	1,166.4	8,894.8	10,061.2
2013	—	651.9	R 384.6	161.0	0.3	100.7	0.9	R 647.5	10.3	R 1,309.6	8,653.4	R 9,963.0
2014	—	715.0	R 345.5	181.9	1.1	79.1	(s)	R 607.6	R 10.2	R 1,332.8	9,170.0	R 10,502.8
2015	—	655.3	R 215.0	99.5	0.4	511.0	(s)	R 825.9	0.9	R 1,482.1	9,106.2	R 10,588.3
2016	—	651.5	R 172.0	108.1	0.2	560.9	—	R 841.2	0.6	R 1,493.3	8,506.8	R 10,000.1
2017	—	672.6	R 217.1	122.4	0.3	533.8	—	R 873.7	0.4	R 1,546.6	8,881.6	R 10,428.2
2018	—	714.6	R 257.3	141.0	0.2	590.6	—	R 989.0	0.5	R 1,704.1	8,845.1	R 10,549.2
2019	—	726.6	R 214.6	113.5	0.2	554.2	—	R 882.5	R 0.5	R 1,609.7	8,950.3	R 10,559.9
2020	—	657.5	R 131.5	103.2	0.1	476.4	—	R 711.2	0.3	R 1,369.0	8,181.3	R 9,550.3
2021	—	761.0	R 175.4	168.8	0.3	661.3	—	R 1,005.9	2.1	R 1,769.0	8,931.7	R 10,700.7
2022	—	R 907.0	R 301.1	173.1	0.4	917.3	—	R 1,391.9	8.0	R 2,306.8	10,842.3	R 13,149.2
2023	—	848.0	211.0	132.9	0.6	793.9	—	1,138.3	9.5	1,995.8	11,620.5	13,616.4

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[g] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[j] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: Expenditure totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2023, Florida

Year	Primary energy												Electricity [i]	Total energy [f,g,h]
	Coal			Natural gas [a]	Petroleum						Biomass	Total [f,g,h]		
	Coking coal	Steam coal	Total		Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e,f]			
	Prices in dollars per million Btu													
1970	—	—	—	0.37	0.56	1.31	2.81	0.37	1.05	0.68	2.18	0.61	3.56	0.97
1975	—	0.53	0.53	0.95	2.20	2.64	4.39	1.75	2.63	2.16	2.18	1.64	7.57	2.70
1980	—	1.77	1.77	2.61	5.75	5.69	9.80	3.44	5.34	4.60	2.05	3.74	13.38	5.38
1985	—	2.04	2.04	3.71	6.49	12.43	9.03	4.08	6.40	6.28	2.05	4.94	16.63	7.04
1990	—	1.89	1.89	3.30	5.94	11.31	8.85	3.09	4.65	5.21	0.94	3.33	14.90	5.18
1995	—	1.86	1.86	3.07	4.59	8.53	8.54	2.71	5.17	4.86	1.17	3.11	15.11	4.60
2000	—	1.68	1.68	5.35	7.69	12.79	11.04	4.43	7.37	7.44	1.41	4.84	14.18	6.38
2005	—	2.97	2.97	9.14	13.58	18.26	17.39	7.28	8.67	11.73	2.71	7.99	18.93	9.92
2006	—	3.31	3.31	11.30	15.59	20.57	19.77	8.26	10.11	13.32	2.57	9.13	22.59	11.40
2007	—	3.25	3.25	10.20	16.70	22.97	21.53	9.75	10.63	14.40	2.48	9.03	22.73	11.40
2008	—	3.88	3.88	11.36	24.62	28.04	25.56	14.13	14.08	19.60	2.81	11.16	24.17	13.40
2009	—	3.79	3.79	9.13	15.28	21.84	18.22	9.51	14.35	15.21	2.53	8.87	27.31	12.14
2010	—	3.84	3.84	8.13	18.34	21.51	21.80	11.98	R 18.46	R 18.50	2.62	R 9.45	25.95	R 12.06
2011	—	4.31	4.31	7.95	24.35	26.11	27.42	16.75	R 21.08	R 23.14	2.71	R 10.39	25.06	R 12.75
2012	—	4.53	4.53	6.83	25.38	19.76	28.03	18.08	R 22.31	R 24.05	2.52	R 9.76	23.55	R 11.90
2013	—	4.40	4.40	6.65	24.85	19.82	27.60	18.15	R 22.32	R 23.96	2.47	R 9.61	22.30	R 11.54
2014	—	4.29	4.29	6.69	24.17	21.72	26.44	17.01	R 22.32	R 23.54	2.99	R 10.11	23.17	R 12.16
2015	—	3.92	3.92	6.27	15.41	11.79	18.85	9.40	R 19.20	R 17.25	2.88	R 8.38	24.08	R 10.75
2016	—	3.51	3.51	5.62	12.91	10.87	17.14	7.38	R 15.99	R 14.71	2.66	R 7.44	22.53	R 9.68
2017	—	4.00	4.00	5.97	14.66	14.84	19.23	9.64	16.01	16.05	2.55	8.03	22.94	10.21
2018	—	4.55	4.55	6.21	17.71	16.28	20.92	10.19	19.53	18.93	2.40	9.01	22.41	11.00
2019	—	4.60	4.60	6.02	16.38	12.52	19.45	9.71	R 20.00	R 18.11	2.47	R 8.51	22.42	R 10.54
2020	—	4.14	4.14	5.41	11.64	11.71	16.62	7.64	R 18.26	R 15.35	1.95	R 7.39	20.97	R 9.47
2021	—	4.38	4.38	6.12	16.06	18.90	22.89	11.42	R 19.49	R 18.88	2.44	R 9.22	22.41	R 11.18
2022	—	7.64	7.64	9.17	27.61	20.04	29.50	17.01	R 26.28	R 27.02	2.66	13.49	26.84	15.58
2023	—	7.44	7.44	6.98	23.96	15.70	26.69	15.00	23.45	23.94	2.57	12.44	27.53	15.03
	Expenditures in million dollars													
1970	—	—	—	35.8	14.7	4.4	3.0	19.1	41.2	82.4	17.8	136.0	113.7	249.7
1975	—	0.3	0.3	85.1	60.0	11.5	2.1	81.0	85.9	240.4	16.7	342.5	343.4	685.9
1980	—	30.2	30.2	259.6	236.8	107.2	4.5	294.2	207.3	850.1	15.8	1,155.7	848.6	2,004.4
1985	—	45.4	45.4	272.5	192.4	103.3	48.5	146.6	360.5	851.3	18.5	1,188.0	876.6	2,064.6
1990	—	57.0	57.0	304.1	143.5	64.8	49.7	62.5	248.3	568.8	62.7	992.7	844.1	1,836.8
1995	—	61.8	61.8	420.4	154.7	88.8	51.0	84.7	263.7	642.9	110.1	1,235.1	849.5	2,084.6
2000	—	53.9	53.9	620.8	278.8	91.3	65.4	97.3	278.6	811.3	98.8	1,584.8	913.5	2,498.3
2005	—	81.8	81.8	598.5	706.4	110.9	252.4	130.5	394.4	1,594.6	228.7	2,503.6	1,271.2	3,774.8
2006	—	94.9	94.9	812.9	749.4	154.0	294.7	126.1	574.3	1,898.4	229.5	3,035.8	1,523.5	4,559.2
2007	—	90.8	90.8	701.7	614.3	121.1	388.3	107.8	582.6	1,814.2	226.0	2,832.7	1,492.4	4,325.1
2008	—	105.8	105.8	800.2	922.1	97.3	452.2	132.1	693.1	2,296.9	271.2	3,474.1	1,562.1	5,036.2
2009	—	91.1	91.1	616.4	510.5	59.5	306.0	65.5	531.0	1,472.5	203.3	2,383.3	1,576.7	3,960.0
2010	—	83.4	83.4	637.4	945.0	84.1	226.4	67.3	R 637.2	R 1,960.0	281.2	R 2,962.0	1,528.6	R 4,490.6
2011	—	54.4	54.4	689.5	886.8	149.3	267.7	96.4	R 675.5	R 2,075.6	301.9	R 3,121.5	1,443.9	R 4,565.4
2012	—	57.9	57.9	683.1	876.3	74.6	283.1	55.2	R 663.1	R 1,952.3	278.5	R 2,971.8	1,319.9	R 4,291.7
2013	—	66.0	66.0	662.2	940.6	74.4	284.4	25.4	R 649.1	R 1,973.8	279.7	R 2,981.7	1,246.8	R 4,228.5
2014	—	68.7	68.7	651.0	920.6	85.3	283.2	24.5	R 712.6	R 2,026.2	306.7	R 3,052.4	1,306.1	R 4,358.5
2015	—	58.8	58.8	618.1	596.6	48.7	416.1	10.1	R 657.0	R 1,728.4	320.7	R 2,726.0	1,388.1	R 4,114.2
2016	—	45.9	45.9	598.1	487.2	48.1	383.9	15.6	R 581.3	R 1,516.1	280.8	R 2,440.9	1,288.4	R 3,729.3
2017	—	56.8	56.8	638.1	599.1	66.8	434.6	11.6	590.3	1,702.4	267.3	2,664.5	1,299.4	3,963.8
2018	—	58.9	58.9	689.5	668.9	67.3	490.0	13.8	715.7	1,955.6	237.9	2,942.0	1,276.3	4,218.3
2019	—	47.4	47.4	737.2	567.3	50.7	457.2	16.1	R 690.0	R 1,781.2	244.1	R 2,810.0	1,263.3	R 4,073.3
2020	—	22.6	22.6	682.2	339.6	48.5	395.8	10.0	R 644.1	R 1,438.0	170.3	R 2,313.1	1,185.7	R 3,498.9
2021	—	25.9	25.9	829.6	604.5	83.7	527.3	16.5	R 792.8	R 2,024.8	211.6	R 3,091.9	1,308.5	R 4,400.4
2022	—	34.4	34.4	1,162.5	1,050.3	104.3	708.0	25.2	R 1,073.7	R 2,961.6	R 222.9	R 4,381.4	1,614.8	R 5,996.2
2023	—	17.4	17.4	896.9	889.6	69.8	653.0	18.5	966.6	2,597.5	139.1	3,650.9	1,672.8	5,323.8

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[i] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET6. Transportation sector energy price and expenditure estimates, selected years, 1970-2023, Florida

Year	Primary energy											Electricity [g]	Total energy [f]
			Petroleum										
	Coal	Natural gas[a]	Aviation gasoline	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Lubricants	Motor gasoline [e]	Residual fuel oil	Total	Total [f]		
	Prices in dollars per million Btu												
1970	—	—	2.17	1.44	1.25	0.73	5.08	2.81	0.29	2.19	2.19	—	2.19
1975	0.53	—	3.45	2.89	2.43	2.03	7.48	4.39	1.60	3.79	3.79	—	3.79
1980	—	—	9.02	7.72	5.23	6.46	14.36	9.80	3.14	8.39	8.39	—	8.39
1985	—	—	9.99	7.24	12.04	5.90	18.18	9.03	3.76	8.19	8.19	22.04	8.20
1990	—	2.51	9.32	8.21	10.54	5.64	20.61	8.85	2.56	7.97	7.97	17.06	7.97
1995	—	3.61	8.36	8.28	11.42	3.91	21.75	8.54	2.54	7.68	7.68	17.35	7.68
2000	—	5.70	10.87	10.85	15.59	6.49	23.20	11.04	4.13	10.10	10.09	18.42	10.10
2005	—	12.47	18.56	17.52	21.29	12.68	35.22	17.39	6.95	16.44	16.44	23.54	16.44
2006	—	13.27	22.31	19.65	22.88	14.64	43.88	19.77	7.86	18.67	18.67	30.24	18.67
2007	—	12.37	23.70	20.73	24.82	16.10	47.16	21.53	9.50	20.23	20.23	28.53	20.23
2008	—	15.08	27.23	27.82	28.97	22.43	55.12	25.56	13.48	25.32	25.32	29.84	25.32
2009	—	12.77	20.32	18.04	22.45	12.69	56.07	18.22	9.74	17.48	17.48	30.72	17.48
2010	—	17.55	25.19	21.72	26.50	16.44	58.80	21.80	10.50	20.48	20.48	25.14	20.48
2011	—	5.48	31.64	27.95	30.88	22.73	69.54	27.42	14.33	26.23	26.22	25.83	26.22
2012	—	9.65	33.04	28.88	24.85	23.23	72.11	28.03	14.28	26.97	26.97	24.78	26.97
2013	—	R 10.16	32.71	28.54	24.96	22.37	69.42	27.60	14.34	26.59	26.59	25.47	26.59
2014	—	R 10.44	33.16	27.74	26.89	21.08	69.44	26.44	9.31	25.34	25.33	27.10	25.34
2015	—	R 10.25	24.86	19.65	17.02	12.30	67.28	18.85	9.47	17.81	17.80	26.14	17.81
2016	—	R 10.65	21.62	16.54	16.11	10.12	65.78	17.14	9.10	15.80	15.80	24.38	15.80
2017	—	R 10.85	24.13	19.01	20.32	12.27	67.25	19.23	10.20	17.86	R 17.85	25.28	17.85
2018	—	R 10.79	27.04	22.56	21.86	15.47	72.37	20.92	12.75	20.05	20.03	24.22	20.03
2019	—	R 10.86	25.57	21.70	17.97	14.51	74.92	19.45	12.01	18.92	18.89	24.38	18.89
2020	—	R 10.72	22.34	18.29	16.86	10.58	75.34	16.62	8.75	16.34	R 16.32	22.54	16.32
2021	—	R 11.04	28.86	23.37	25.38	14.39	81.25	22.89	12.13	21.36	21.32	24.37	21.32
2022	—	R 14.22	36.02	36.22	25.71	24.88	97.37	29.50	16.85	R 29.56	R 29.50	29.87	R 29.50
2023	—	14.89	32.62	30.55	20.89	20.19	105.48	26.69	14.80	25.95	25.91	33.20	25.91
	Expenditures in million dollars												
1970	—	—	34.4	63.0	0.9	96.6	20.6	1,101.8	4.2	1,321.5	1,321.5	—	1,321.5
1975	(s)	—	33.4	171.1	1.6	275.3	28.2	2,293.5	22.3	2,825.4	2,825.4	—	2,825.4
1980	—	—	61.0	719.9	3.2	1,302.3	70.1	5,553.9	229.2	7,939.6	7,939.6	—	7,939.6
1985	—	—	42.4	875.8	18.0	762.5	80.8	5,835.5	162.9	7,777.9	7,811.5	1.4	7,812.9
1990	—	(s)	38.0	1,202.9	8.6	1,013.5	103.0	6,504.1	160.2	9,030.4	9,035.9	2.7	9,038.6
1995	—	0.5	25.3	1,392.6	6.5	621.8	103.7	6,950.2	134.7	9,234.8	9,235.4	2.9	9,238.3
2000	—	2.7	33.5	2,218.1	8.3	1,292.6	118.2	10,156.2	259.2	14,086.1	14,088.8	3.4	14,092.2
2005	—	2.7	41.5	4,692.1	27.9	2,005.5	151.4	18,448.6	586.3	25,953.3	25,956.0	7.9	25,964.0
2006	—	3.2	47.1	5,585.1	28.5	2,294.3	183.7	21,189.8	693.1	30,021.6	30,024.8	10.2	30,035.0
2007	—	3.1	44.3	5,506.1	18.8	2,845.3	203.9	22,647.3	791.6	32,057.2	32,060.3	9.4	32,069.7
2008	—	2.1	51.7	6,481.2	36.7	4,911.6	221.3	25,532.0	360.0	37,594.5	37,596.6	8.7	37,605.3
2009	—	1.5	29.8	R 3,696.2	20.0	2,264.6	202.4	18,181.3	189.9	R 24,584.3	R 24,585.8	8.8	R 24,594.7
2010	—	1.1	51.4	R 4,675.1	6.3	3,965.7	468.0	21,263.2	939.6	R 31,369.4	R 31,370.5	7.3	R 31,377.8
2011	—	0.5	72.2	R 6,133.6	7.4	5,563.5	534.5	26,265.5	1,215.9	R 39,792.6	R 39,793.0	7.5	R 39,800.6
2012	—	0.8	74.5	R 6,197.2	4.7	5,658.5	505.7	26,868.6	949.6	R 40,258.7	R 40,259.6	7.1	R 40,266.7
2013	—	R 1.8	75.2	R 6,411.7	6.8	5,627.2	520.7	26,991.9	822.7	R 40,456.2	R 40,458.0	7.9	R 40,466.0
2014	—	R 3.1	72.3	R 6,377.0	8.2	5,546.5	550.6	26,176.3	518.4	R 39,249.3	R 39,252.4	8.8	R 39,261.2
2015	—	R 3.5	58.7	R 4,872.3	7.5	3,414.0	583.9	18,946.7	484.4	R 28,367.4	R 28,371.0	8.5	R 28,379.5
2016	—	R 6.7	51.2	R 4,231.8	8.4	2,893.9	534.0	17,528.5	472.5	R 25,720.2	R 25,726.9	7.9	R 25,734.8
2017	—	R 41.5	60.4	R 4,804.3	18.3	3,660.5	508.1	20,085.7	590.5	R 29,727.9	R 29,769.3	7.4	R 29,776.8
2018	—	R 47.7	72.5	R 6,309.1	19.7	R 4,785.4	556.1	22,202.0	1,106.9	R 35,051.7	R 35,099.4	6.9	R 35,106.2
2019	—	R 55.2	73.4	R 6,047.9	15.7	R 4,640.7	R 549.9	20,615.2	626.3	R 32,569.0	R 32,624.2	7.1	R 32,631.3
2020	—	R 57.6	53.5	R 4,791.6	20.3	R 2,021.2	R 467.5	15,408.2	56.8	R 22,819.2	R 22,876.8	5.7	R 22,882.6
2021	—	R 65.1	72.6	R 6,379.7	35.9	R 3,986.0	R 565.8	23,474.6	827.2	R 35,341.8	R 35,406.9	6.0	R 35,412.9
2022	—	R 89.8	93.8	R 10,289.7	21.5	R 7,764.3	R 723.7	30,721.2	1,176.9	R 50,791.1	R 50,880.9	7.7	R 50,888.5
2023	—	99.5	80.6	8,519.7	17.5	6,594.9	582.3	28,702.6	858.2	45,355.9	45,455.4	8.1	45,463.5

[a] Transportation use of natural gas as vehicle fuel only.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET7. Electric power sector price and expenditure estimates, selected years, 1970-2023, Florida

Year	Coal	Natural gas [a]	Petroleum: Distillate fuel oil	Petroleum: Petroleum coke	Petroleum: Residual fuel oil	Petroleum: Total	Nuclear fuel	Biomass: Wood and waste [b]	Electricity imports [c]	Total energy [d]
	Prices in dollars per million Btu									
1970	0.31	0.35	0.36	—	0.33	0.33	—	—	—	0.33
1975	1.01	0.72	2.21	—	1.85	1.88	0.17	—	—	1.35
1980	1.80	1.53	5.76	—	3.72	3.80	0.35	—	—	2.40
1985	2.12	3.25	5.71	—	3.87	3.96	0.65	—	—	2.22
1990	1.85	2.53	5.09	—	2.99	3.08	0.64	0.46	—	1.94
1995	1.79	2.24	3.98	—	2.48	2.55	0.53	0.70	—	1.72
2000	1.57	4.34	6.57	0.58	4.27	4.21	0.44	—	—	2.38
2005	2.30	8.46	12.98	1.40	6.85	5.88	0.47	0.78	—	4.64
2006	2.56	8.38	14.61	1.57	7.59	5.94	0.52	1.62	—	4.77
2007	2.55	9.10	15.77	1.88	9.01	7.63	0.51	1.54	—	5.26
2008	2.95	10.12	21.76	2.16	13.62	10.81	0.50	2.25	—	5.96
2009	3.38	7.71	14.96	2.51	9.62	7.75	0.65	2.20	—	5.22
2010	3.47	6.42	16.19	3.07	11.61	9.36	0.68	2.40	—	4.84
2011	3.53	5.77	21.99	3.82	17.27	10.16	0.77	2.44	—	4.53
2012	3.49	4.73	21.99	2.58	17.54	11.01	0.71	2.21	—	4.00
2013	3.41	5.00	23.11	2.58	17.13	5.92	0.77	2.26	—	3.91
2014	3.30	5.47	22.12	2.42	10.58	6.37	0.74	2.73	—	4.10
2015	3.08	4.31	14.80	2.12	10.38	5.07	0.66	2.62	—	3.46
2016	3.01	3.78	11.18	1.55	11.77	4.41	0.65	2.54	—	3.12
2017	2.95	4.20	12.92	2.66	12.25	6.17	0.69	2.40	—	3.37
2018	2.88	4.38	16.43	3.14	14.71	6.55	0.63	2.22	—	3.52
2019	2.83	3.71	15.33	2.52	14.12	4.95	0.53	2.33	—	3.09
2020	2.49	3.19	9.07	2.21	10.41	3.11	0.54	1.80	—	2.67
2021	2.66	5.07	16.66	4.67	14.38	7.86	0.55	2.20	—	4.05
2022	3.63	R 8.30	26.99	7.01	22.48	13.88	0.48	2.48	—	R 6.55
2023	3.37	4.00	22.82	5.20	15.21	8.09	0.49	2.62	—	3.39
	Expenditures in million dollars									
1970	35.8	72.4	1.3	—	86.5	87.8	—	—	—	196.0
1975	134.7	102.9	66.8	—	794.0	860.8	15.8	—	—	1,114.2
1980	374.6	257.9	107.3	—	1,635.7	1,743.0	63.8	—	—	2,439.2
1985	947.7	544.2	41.5	—	546.2	587.7	162.2	—	—	2,241.8
1990	1,115.1	485.4	55.7	—	729.4	785.1	147.8	14.3	—	2,547.8
1995	1,167.4	837.3	43.0	—	525.1	568.1	160.3	43.5	—	2,776.6
2000	1,142.5	1,637.5	136.1	11.1	1,390.3	1,537.6	147.7	—	—	4,465.2
2005	1,485.6	5,516.1	179.2	115.4	1,912.3	2,206.9	139.8	39.2	—	9,387.5
2006	1,706.4	6,394.0	99.0	111.9	1,163.3	1,374.1	172.2	81.8	—	9,728.4
2007	1,766.2	7,227.3	111.6	86.4	1,344.0	1,541.9	156.9	79.5	—	10,771.7
2008	1,966.8	8,299.5	94.5	73.3	1,194.7	1,362.5	167.9	113.1	—	11,909.9
2009	1,885.2	7,218.0	90.1	74.2	575.6	740.0	196.8	117.8	—	10,157.9
2010	2,135.4	6,420.6	200.8	98.7	602.6	902.1	169.0	127.7	—	9,754.9
2011	1,905.3	6,116.6	101.6	75.9	173.7	351.2	177.9	122.7	—	8,673.7
2012	1,639.7	5,466.1	51.6	18.1	90.3	160.0	132.8	111.5	—	7,510.1
2013	1,670.5	5,254.2	59.5	55.7	43.2	158.4	212.6	115.8	—	7,411.4
2014	1,788.9	5,785.1	62.6	34.2	28.4	125.3	215.7	157.8	—	8,072.7
2015	1,391.0	5,100.6	43.2	34.4	37.7	115.3	193.5	156.3	—	6,956.7
2016	1,244.3	4,560.4	38.6	32.7	59.4	130.7	198.6	139.8	—	6,273.8
2017	1,158.7	5,091.9	41.1	26.3	27.0	94.5	210.5	152.0	—	6,707.6
2018	905.6	5,665.9	47.7	50.2	46.3	144.2	193.0	137.8	—	7,046.6
2019	632.3	5,020.1	28.3	31.2	16.9	76.4	161.8	116.2	—	6,006.8
2020	436.3	4,447.9	14.6	34.4	6.3	55.3	167.0	81.5	—	5,188.0
2021	517.2	6,848.0	41.3	42.1	15.3	98.6	168.1	99.0	—	7,730.9
2022	608.2	R 11,821.7	122.9	64.9	10.2	198.0	155.6	91.1	—	R 12,874.5
2023	428.6	5,755.2	47.7	56.9	1.8	106.5	153.7	80.0	—	6,523.9

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[c] Electricity imported from Canada and Mexico.
[d] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET1. Primary energy, electricity, and total energy price and expenditure estimates, selected years, 1970-2023, Georgia

Year	Primary energy														Electric power sector [i,k,l]	Electricity [m]	Total energy [h,i,j]
	Coal			Natural gas [a]	Petroleum							Nuclear fuel	Biomass				
	Coking coal	Steam coal	Total		Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total		Wood and waste [g,h]	Total [h,i,j,k]			
	Prices in dollars per million Btu																
1970	—	0.39	0.39	0.58	1.06	1.97	0.73	2.80	0.38	1.70	1.93	—	1.29	1.24	0.35	4.58	1.85
1975	—	0.95	0.95	1.02	2.71	3.57	2.03	4.73	1.70	2.99	3.65	0.13	1.46	2.26	0.91	8.93	3.64
1980	—	1.50	1.50	3.06	7.00	6.37	6.46	9.91	3.27	6.80	8.03	0.45	2.10	4.50	1.38	12.75	7.25
1985	—	1.88	1.88	5.25	6.63	9.69	5.66	8.76	4.13	8.21	7.56	0.72	2.29	4.60	1.73	17.09	8.36
1990	—	1.79	1.79	4.80	7.22	10.40	5.45	8.24	2.52	6.26	7.44	0.87	1.04	4.13	1.53	19.25	8.32
1995	—	1.68	1.68	4.51	6.37	9.85	3.80	7.85	2.50	6.28	6.90	0.55	1.24	3.84	1.33	19.43	8.03
2000	—	1.55	1.55	6.24	9.01	13.77	6.38	10.38	4.40	6.96	9.57	0.45	1.54	5.07	1.36	18.25	9.93
2005	—	2.21	2.21	12.45	15.75	18.83	12.41	16.96	7.22	9.36	15.59	0.44	2.85	8.65	2.21	21.78	15.29
2006	—	2.44	2.44	11.56	17.67	20.76	14.47	19.07	9.93	10.62	17.54	0.44	2.79	9.24	2.26	22.36	16.45
2007	—	2.63	2.63	10.86	18.75	22.68	15.46	20.81	9.25	11.55	19.07	0.49	2.68	9.55	2.52	23.03	17.33
2008	—	3.09	3.09	13.01	26.10	27.02	22.80	25.11	13.23	14.18	24.08	0.46	3.10	11.76	2.93	25.91	21.01
2009	—	3.63	3.63	8.78	16.08	21.75	12.59	17.41	9.51	15.42	16.30	0.52	3.01	9.04	2.86	25.81	16.70
2010	—	3.90	3.90	8.66	20.30	23.94	16.24	21.02	11.65	R 20.57	R 19.81	0.63	3.03	R 10.35	3.18	26.07	18.31
2011	—	3.78	3.78	7.98	26.25	27.76	22.55	26.68	15.91	R 25.46	R 25.30	0.75	3.15	12.59	3.03	28.17	R 21.63
2012	—	3.51	3.51	6.23	27.05	24.39	22.84	27.32	17.68	R 27.44	R 26.21	0.83	2.99	12.64	2.58	27.47	R 21.84
2013	—	3.22	3.22	R 7.05	26.72	23.53	21.91	26.68	17.00	R 29.35	25.81	0.87	2.90	12.72	2.75	28.41	21.46
2014	—	3.15	3.15	7.54	25.90	26.33	20.00	25.69	19.66	R 31.46	R 25.04	0.86	3.35	R 12.11	2.91	29.38	21.14
2015	—	2.96	2.96	5.77	18.12	19.18	12.24	18.29	10.71	R 28.35	R 17.65	0.75	3.03	R 9.10	2.33	28.19	R 17.11
2016	—	2.82	2.82	R 5.42	15.15	18.71	10.04	16.68	7.73	R 21.89	R 15.54	0.81	3.08	R 8.10	2.24	28.10	R 16.17
2017	—	2.79	2.79	R 6.22	17.52	21.75	12.18	18.57	10.84	19.60	17.49	0.80	3.00	9.43	2.38	28.80	17.58
2018	—	2.78	2.78	6.16	20.72	22.94	15.50	20.20	13.41	22.94	19.76	0.79	2.79	R 10.13	2.53	28.19	18.35
2019	—	2.74	2.74	5.40	20.03	19.76	14.45	18.82	12.33	R 22.46	18.60	0.77	2.73	R 9.56	2.14	28.91	R 17.96
2020	—	2.74	2.74	R 5.01	16.67	18.15	10.41	15.83	8.44	R 21.88	R 15.86	0.77	R 2.21	R 8.24	1.81	29.09	16.55
2021	—	2.79	2.79	6.69	R 21.27	24.03	14.39	22.06	13.91	R 25.02	R 21.19	0.75	R 2.86	R 10.88	2.67	30.58	19.77
2022	—	4.02	4.02	R 9.96	R 33.33	25.16	25.06	28.33	24.78	R 32.36	R 29.13	0.72	R 3.19	15.22	R 4.55	35.17	25.51
2023	—	4.54	4.54	6.51	28.20	22.49	20.28	25.53	19.97	28.21	25.49	0.77	3.36	12.90	2.43	32.42	22.97
	Expenditures in million dollars																
1970	—	76.0	76.0	195.4	79.1	55.2	42.8	795.3	24.5	72.4	1,069.2	—	23.5	1,364.2	-88.1	491.7	1,767.8
1975	—	295.7	295.7	336.1	254.0	107.6	147.4	1,628.9	115.5	135.4	2,388.9	4.3	29.0	3,054.1	-372.6	1,265.9	3,947.4
1980	—	784.2	784.2	970.9	792.6	175.7	598.1	3,409.4	185.0	380.7	5,541.5	41.7	44.6	7,382.8	-837.7	2,227.3	8,772.4
1985	—	1,359.8	1,359.8	1,467.5	949.1	244.4	518.0	3,356.9	285.0	420.7	5,774.3	78.0	58.0	8,737.5	-1,378.5	3,690.1	11,049.1
1990	—	1,274.9	1,274.9	1,466.0	1,216.0	227.5	567.9	3,601.0	50.6	383.7	6,046.9	227.9	120.4	9,142.0	-1,416.4	5,253.0	12,978.6
1995	—	1,211.8	1,211.8	1,660.3	1,265.6	262.4	397.5	3,991.4	52.5	370.0	6,339.4	176.0	209.9	9,597.4	-1,340.5	6,326.7	14,583.6
2000	—	1,269.3	1,269.3	2,522.5	2,230.2	457.5	471.8	6,001.8	63.1	436.9	9,661.2	154.0	251.7	13,858.6	-1,573.2	7,367.0	19,652.4
2005	—	1,990.2	1,990.2	5,254.9	4,653.3	438.4	673.7	10,770.9	347.1	624.4	17,507.7	144.3	442.5	25,339.6	-2,799.2	9,830.3	32,370.7
2006	—	2,174.6	2,174.6	4,941.6	4,915.8	464.3	537.7	11,907.6	620.5	719.9	19,165.8	146.3	454.5	26,882.7	-2,905.2	10,288.2	34,265.7
2007	—	2,457.8	2,457.8	4,887.3	4,949.9	477.8	589.6	12,956.4	408.7	782.2	20,164.6	165.8	424.6	28,100.1	-3,435.2	10,799.9	35,464.7
2008	—	2,739.2	2,739.2	5,593.6	5,806.4	588.7	818.8	14,806.1	652.3	769.6	23,441.9	151.5	397.7	32,323.9	-3,750.8	11,950.7	40,523.7
2009	—	2,625.4	2,625.4	4,114.4	R 3,454.2	432.3	1,286.1	10,413.7	421.6	753.6	R 16,761.5	172.5	309.7	R 23,983.6	-3,371.7	11,516.3	R 32,128.2
2010	—	2,993.6	2,993.6	4,545.8	R 4,624.7	556.2	2,307.2	12,406.3	649.4	R 998.4	R 21,542.2	222.4	438.0	R 29,742.0	-4,041.4	12,409.5	R 38,110.0
2011	—	2,400.3	2,400.3	4,165.2	R 5,728.3	538.9	3,175.0	15,079.1	1,115.8	R 1,044.8	R 26,681.8	252.5	466.5	R 33,966.4	-3,481.2	13,108.5	R 43,593.8
2012	—	1,529.9	1,529.9	3,830.1	R 5,574.4	504.5	3,084.3	15,302.2	710.4	R 936.7	R 26,112.6	294.3	435.6	R 32,202.4	-2,803.9	12,274.7	R 41,673.3
2013	—	1,371.7	1,371.7	R 4,421.3	R 5,898.9	414.2	3,037.5	15,512.2	468.7	R 1,015.7	R 26,347.1	297.9	494.5	R 32,932.5	-2,868.5	12,650.0	R 42,714.0
2014	—	1,521.1	1,521.1	R 4,962.9	R 5,887.0	546.5	2,801.4	14,360.8	261.5	R 958.9	R 24,816.2	291.6	R 632.8	R 32,224.5	-3,234.7	13,613.7	R 42,603.5
2015	—	1,168.4	1,168.4	R 4,072.8	R 4,356.8	360.9	1,798.6	10,874.0	105.3	R 913.2	R 18,408.8	264.8	R 601.8	R 24,516.6	-2,596.2	13,069.8	R 34,990.2
2016	—	1,125.3	1,125.3	R 3,906.5	R 3,423.9	341.0	1,487.7	9,626.5	66.0	R 886.6	R 15,831.6	290.9	R 563.2	R 21,717.5	-2,576.5	13,239.7	R 32,380.7
2017	—	961.5	961.5	R 4,371.9	R 4,405.6	348.2	R 1,803.8	11,216.3	72.4	1,015.0	R 18,861.4	280.5	R 514.9	R 24,990.1	-2,581.7	13,114.7	R 35,523.1
2018	—	945.8	945.8	R 4,586.5	R 4,573.8	457.8	R 2,266.3	12,181.7	144.6	1,067.4	R 20,691.6	282.3	R 487.2	R 26,993.4	-2,756.9	13,452.9	R 37,689.4
2019	—	747.2	747.2	R 4,222.6	R 4,474.9	379.1	R 2,213.7	11,141.0	62.8	R 1,150.5	R 19,422.0	271.6	R 502.2	R 25,165.5	-2,292.9	13,739.6	R 36,612.3
2020	—	419.0	419.0	R 3,873.7	R 3,740.0	343.6	R 866.7	8,698.8	19.2	R 945.9	R 14,614.2	262.5	R 410.3	R 19,579.6	-1,724.9	13,247.1	R 31,101.9
2021	—	568.2	568.2	R 5,139.9	R 4,945.6	450.3	R 1,422.9	12,454.9	109.0	R 1,087.9	R 20,470.6	265.9	R 541.9	R 26,986.6	-2,650.0	14,333.2	R 38,669.9
2022	—	727.7	727.7	R 7,980.9	R 7,578.6	503.9	R 3,336.6	15,594.5	199.0	R 1,424.8	R 28,637.3	256.2	R 603.4	R 38,205.5	R -4,573.9	17,406.4	R 51,037.9
2023	—	806.0	806.0	5,076.1	6,241.0	391.3	2,601.2	15,520.9	133.1	1,317.7	26,205.3	301.6	607.7	32,996.6	-2,508.5	15,710.9	46,199.0

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[l] Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
[m] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.
Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET2. Total end-use energy price and expenditure estimates, selected years, 1970-2023, Georgia

Year	Primary energy											Electricity [k]	Total energy [h,i,j]
			Petroleum							Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g,h]	Total [h,i,j]		
	Prices in dollars per million Btu												
1970	0.55	0.65	1.07	1.97	0.73	2.80	0.39	1.70	1.96	1.29	1.50	4.58	1.85
1975	1.37	1.06	2.74	3.57	2.03	4.73	1.68	2.99	3.75	1.46	2.85	8.93	3.64
1980	1.61	3.07	7.02	6.37	6.46	9.91	3.25	6.80	8.06	2.10	6.32	12.75	7.25
1985	1.83	5.26	6.64	9.69	5.66	8.76	4.13	8.21	7.57	2.29	6.66	17.09	8.36
1990	1.79	4.81	7.24	10.40	5.45	8.24	2.53	6.26	7.45	1.04	6.00	19.25	8.32
1995	1.78	4.57	6.40	9.85	3.80	7.85	2.51	6.28	6.91	1.24	5.54	19.43	8.03
2000	1.65	6.49	9.06	13.77	6.38	10.38	4.44	6.96	9.60	1.55	7.80	18.25	9.93
2005	2.98	12.95	15.77	18.83	12.41	16.96	7.21	9.36	15.61	2.85	13.53	21.78	15.29
2006	3.27	12.91	17.68	20.76	14.47	19.07	9.93	10.62	17.55	2.79	14.77	22.36	16.45
2007	3.16	12.28	18.76	22.68	15.46	20.81	9.25	11.55	19.07	2.68	15.64	23.03	17.33
2008	4.32	13.90	26.15	27.02	22.80	25.11	13.23	14.18	24.09	3.10	19.47	25.91	21.01
2009	4.14	10.73	16.10	21.75	12.59	17.41	9.51	15.42	16.31	3.01	13.95	25.81	16.70
2010	3.64	10.51	20.32	23.94	16.24	21.02	11.65	R 20.57	R 19.81	3.05	16.01	26.07	18.31
2011	4.38	10.06	26.26	27.76	22.55	26.68	15.91	R 25.46	R 25.30	3.16	19.66	28.17	R 21.63
2012	4.28	9.22	27.06	24.39	22.84	27.32	17.68	R 27.44	R 26.21	3.01	R 20.12	27.47	R 21.84
2013	4.20	R 9.27	26.73	23.53	21.91	26.68	17.00	R 29.35	R 25.82	2.93	19.46	28.41	21.46
2014	4.28	9.74	25.93	26.33	20.00	25.69	19.64	R 31.46	R 25.05	3.38	18.68	29.38	21.14
2015	3.96	R 8.58	18.13	19.18	12.24	18.29	10.70	R 28.35	R 17.66	3.05	R 13.86	28.19	R 17.11
2016	3.80	R 8.31	15.18	18.71	10.04	16.68	7.73	R 21.89	R 15.55	3.11	R 12.50	28.10	R 16.17
2017	3.73	R 9.48	17.54	21.75	12.18	18.57	10.84	19.60	17.50	R 3.05	14.32	28.80	17.58
2018	4.07	R 8.59	20.78	22.94	15.50	20.20	13.41	22.94	19.77	2.83	R 15.38	28.19	18.35
2019	4.23	R 8.63	20.05	19.76	14.45	18.82	12.33	R 22.46	18.61	2.77	R 14.63	28.91	R 17.96
2020	3.65	R 8.54	16.68	18.15	10.41	15.83	8.44	R 21.88	R 15.86	R 2.27	R 12.54	29.09	16.55
2021	3.77	R 9.58	21.28	24.03	14.39	22.06	13.91	R 25.02	21.19	R 2.94	16.36	30.58	19.77
2022	7.88	R 12.57	R 33.38	25.16	25.06	28.33	24.78	R 32.36	R 29.13	R 3.27	22.33	35.17	25.51
2023	7.04	10.98	28.21	22.49	20.28	25.53	19.97	28.21	25.49	3.43	19.97	32.42	22.97
	Expenditures in million dollars												
1970	8.3	178.2	79.0	55.2	42.8	795.3	21.5	72.4	1,066.1	23.5	1,276.1	491.7	1,767.8
1975	15.6	306.8	239.6	107.6	147.4	1,628.9	71.2	135.4	2,330.1	29.0	2,681.5	1,265.9	3,947.4
1980	27.5	961.2	777.5	175.7	598.1	3,409.4	170.4	380.7	5,511.8	44.6	6,545.1	2,227.3	8,772.4
1985	72.2	1,463.6	941.4	244.4	518.0	3,356.9	283.7	420.7	5,765.3	58.0	7,359.0	3,690.1	11,049.1
1990	100.7	1,460.1	1,209.1	227.5	567.9	3,601.0	49.0	383.7	6,038.4	120.4	7,725.6	5,253.0	12,978.6
1995	88.9	1,629.3	1,256.7	262.4	397.5	3,991.4	51.1	370.0	6,329.0	209.7	8,256.9	6,326.7	14,583.6
2000	84.5	2,344.2	2,189.6	457.5	471.8	6,001.8	47.6	436.9	9,605.1	251.7	12,285.4	7,367.0	19,652.4
2005	133.4	4,486.7	4,632.3	438.4	673.7	10,770.9	338.4	624.4	17,478.2	442.0	22,540.4	9,830.3	32,370.7
2006	133.0	4,239.4	4,904.7	464.3	537.7	11,907.6	616.9	719.9	19,151.0	454.0	23,977.5	10,288.2	34,265.7
2007	123.0	3,969.5	4,935.4	477.8	589.6	12,956.4	406.8	782.2	20,148.2	424.2	24,664.8	10,799.9	35,464.7
2008	158.7	4,591.9	5,791.0	588.7	818.8	14,806.1	651.7	769.6	23,425.8	396.6	28,573.1	11,950.7	40,523.7
2009	110.7	3,444.8	R 3,440.5	432.3	1,286.1	10,413.7	421.3	753.6	R 16,747.6	308.8	R 20,611.9	11,516.3	R 32,128.2
2010	115.5	3,633.6	4,605.1	556.2	2,307.2	12,406.3	648.4	R 998.4	R 21,521.6	429.9	R 25,700.6	12,409.5	R 38,110.0
2011	129.0	3,237.8	R 5,707.0	538.9	3,175.0	15,079.1	1,114.3	R 1,044.8	R 26,659.0	459.4	R 30,485.2	13,108.5	R 43,593.8
2012	93.8	2,782.6	R 5,556.4	504.5	3,084.3	15,302.2	710.4	R 936.7	R 26,094.5	427.7	R 29,398.6	12,274.7	R 41,673.3
2013	79.0	R 3,177.5	R 5,881.4	414.2	3,037.5	15,512.2	468.7	R 1,015.7	R 26,329.6	478.0	R 30,064.0	12,650.0	R 42,714.0
2014	90.9	R 3,518.8	R 5,843.6	546.5	2,801.4	14,360.8	260.0	R 958.9	R 24,771.3	R 608.8	R 28,989.8	13,613.7	R 42,603.5
2015	48.2	R 2,909.6	R 4,333.8	360.9	1,798.6	10,874.0	104.8	R 913.2	R 18,385.3	R 577.3	R 21,920.4	13,069.8	R 34,990.2
2016	42.2	R 2,738.3	R 3,413.8	341.0	1,487.7	9,626.5	66.0	R 886.6	R 15,821.6	R 538.9	R 19,141.0	13,239.7	R 32,380.7
2017	31.2	R 3,047.0	R 4,392.0	348.2	R 1,803.8	11,216.3	72.4	1,015.0	R 18,847.8	R 482.4	R 22,408.4	13,114.7	R 35,523.1
2018	34.3	R 3,088.1	R 4,534.7	457.8	R 2,266.3	12,181.7	144.6	1,067.4	R 20,652.5	R 461.5	R 24,236.5	13,452.9	R 37,689.4
2019	33.2	R 2,962.5	4,461.9	379.1	R 2,213.7	11,141.0	62.8	R 1,150.5	R 19,409.0	R 467.9	R 22,872.7	13,739.6	R 36,612.3
2020	25.2	R 2,853.9	R 3,733.5	343.6	R 866.7	8,698.8	19.2	R 945.9	R 14,607.8	R 367.9	R 17,854.8	13,247.1	R 31,101.9
2021	27.3	R 3,377.3	R 4,930.6	450.3	R 1,422.9	12,454.9	109.0	R 1,087.9	R 20,455.6	R 476.5	R 24,336.7	14,333.2	R 38,669.9
2022	51.3	R 4,473.0	R 7,516.3	503.9	R 3,336.6	15,594.5	199.0	R 1,424.8	R 28,575.0	R 532.3	R 33,631.6	17,406.4	R 51,037.9
2023	30.9	3,733.9	6,229.9	391.3	2,601.2	15,520.9	133.1	1,317.7	26,194.2	529.2	30,488.1	15,710.9	46,199.0

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. · Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2023, Georgia

Year	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
	Prices in dollars per million Btu									
1970	1.00	1.02	1.24	2.31	1.48	2.18	0.73	1.17	5.18	2.28
1975	3.23	1.46	2.61	4.40	3.35	4.18	1.45	1.84	9.01	4.27
1980	3.12	3.57	6.92	7.64	8.77	7.53	3.70	4.12	13.85	7.74
1985	3.31	6.42	7.51	9.23	6.84	8.80	4.19	6.63	18.91	11.77
1990	3.10	6.64	6.70	10.17	8.66	9.67	3.53	6.89	21.87	14.07
1995	3.00	6.02	4.37	10.97	8.28	10.44	2.87	6.36	23.01	14.13
2000	2.99	8.23	9.74	15.15	8.40	14.59	4.37	8.78	22.27	15.22
2005	5.17	16.19	15.40	20.07	14.56	19.79	6.83	16.31	25.33	21.34
2006	—	17.84	17.00	21.94	18.28	21.73	7.87	17.98	26.11	22.83
2007	5.00	17.04	18.24	23.39	20.60	23.25	8.70	17.38	26.66	22.94
2008	—	17.84	24.05	27.51	22.83	27.41	10.72	18.50	29.09	24.66
2009	—	15.93	17.04	22.76	21.44	22.65	8.05	16.20	29.69	24.00
2010	—	14.85	20.09	25.86	23.82	25.77	9.50	15.57	29.51	23.49
2011	—	15.44	26.84	29.69	27.12	29.62	11.42	16.35	32.40	26.01
2012	—	15.99	26.76	28.14	29.13	28.13	12.71	17.09	32.75	26.71
2013	—	14.38	27.75	28.04	28.96	28.04	12.45	15.11	33.58	25.67
2014	—	14.21	26.82	31.76	29.32	31.71	12.14	15.26	34.14	25.88
2015	—	14.29	17.56	27.65	16.65	27.53	8.37	15.10	33.82	26.25
2016	—	14.16	15.20	27.51	13.27	27.33	7.15	14.95	33.71	26.30
2017	—	16.47	17.31	30.19	16.60	30.04	8.00	17.19	34.87	27.87
2018	—	13.61	18.88	31.11	23.98	30.90	8.85	14.62	33.62	25.66
2019	—	14.50	18.43	27.89	22.39	27.81	8.51	15.31	34.48	26.76
2020	—	15.04	16.07	25.48	14.54	25.39	7.04	R 15.60	35.22	R 27.34
2021	—	15.49	19.20	30.57	22.97	30.41	8.45	R 16.24	36.66	R 28.26
2022	—	17.55	29.02	32.80	36.78	32.78	13.07	R 18.27	40.45	R 31.24
2023	—	18.53	27.54	31.74	32.72	31.71	11.95	19.12	40.12	31.67
	Expenditures in million dollars									
1970	1.7	91.6	1.8	32.9	1.0	35.7	3.2	132.1	220.7	352.8
1975	1.2	130.5	4.5	58.7	0.7	63.9	6.5	202.1	505.9	708.0
1980	0.4	332.0	23.3	93.0	4.5	120.8	22.6	475.8	946.6	1,422.4
1985	0.7	555.0	17.3	124.9	10.0	152.1	32.1	739.9	1,516.4	2,256.3
1990	0.3	615.1	11.6	118.4	5.5	135.4	15.1	766.0	2,233.3	2,999.3
1995	0.6	708.5	4.2	150.4	5.9	160.5	18.6	888.2	2,811.1	3,699.3
2000	0.1	1,180.2	4.1	242.4	9.4	255.8	23.0	1,459.1	3,386.3	4,845.4
2005	0.5	2,087.6	3.7	218.9	5.6	228.2	17.4	2,333.7	4,565.5	6,899.1
2006	—	2,025.2	3.0	215.7	6.5	225.3	17.7	2,268.2	4,857.7	7,126.0
2007	(s)	1,961.5	3.0	232.8	4.6	240.4	21.7	2,223.6	5,113.6	7,337.2
2008	—	2,179.8	4.5	306.2	2.2	312.9	29.9	2,522.6	5,517.5	8,040.0
2009	—	1,933.0	2.7	246.1	4.1	252.8	38.3	2,224.1	5,587.9	7,812.0
2010	—	2,103.6	2.5	327.7	4.7	334.9	48.4	2,486.9	6,198.4	8,685.3
2011	—	1,781.6	3.8	283.9	2.7	290.3	56.5	2,128.5	6,383.6	8,512.1
2012	—	1,585.1	1.5	322.8	0.8	325.1	52.6	1,962.8	5,996.3	7,959.1
2013	—	1,775.8	3.7	222.4	0.8	226.8	67.2	2,069.8	6,135.8	8,205.5
2014	—	1,943.3	2.0	305.0	1.7	308.7	66.3	2,318.2	6,659.5	8,977.7
2015	—	1,725.6	1.2	236.4	0.6	238.2	11.5	1,975.3	6,511.2	8,486.5
2016	—	1,687.8	1.2	228.7	0.5	230.5	9.4	1,927.7	6,659.2	8,586.9
2017	—	1,883.4	1.1	211.4	0.4	212.8	R 7.8	2,104.0	6,516.8	8,620.8
2018	—	1,860.5	2.0	271.7	2.2	275.9	R 11.7	2,148.1	6,847.3	R 8,995.5
2019	—	1,832.8	0.8	244.1	1.3	246.2	9.6	2,088.5	6,979.1	R 9,067.7
2020	—	1,850.8	0.9	216.7	0.3	217.9	R 12.4	R 2,081.1	6,995.9	R 9,076.9
2021	—	2,015.3	1.6	237.5	1.1	240.2	R 15.4	R 2,270.8	7,339.6	R 9,610.5
2022	—	2,424.7	R 2.5	246.2	1.6	250.3	R 29.9	R 2,704.9	8,437.9	R 11,142.7
2023	—	2,319.2	2.2	217.7	2.5	222.4	23.3	2,564.8	7,996.7	10,561.5

[a] Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2023, Georgia

Year	Primary energy										Electricity [j]	Total energy [g,h,i]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f,g]	Total [g,h,i]		
	Prices in dollars per million Btu											
1970	0.50	0.72	0.97	1.56	0.63	2.80	0.32	1.45	0.73	0.87	5.85	2.59
1975	1.31	1.07	2.25	2.74	2.22	4.73	1.73	2.82	1.45	1.39	10.79	4.93
1980	1.60	3.12	6.31	5.04	6.06	9.91	3.44	6.53	3.70	3.49	14.64	7.64
1985	1.82	5.57	6.10	9.51	6.84	8.76	4.20	6.81	4.19	5.86	19.94	12.09
1990	1.79	5.61	5.47	9.96	8.66	8.24	3.04	6.99	3.53	5.90	21.57	14.43
1995	1.77	5.07	4.28	8.95	8.28	7.85	2.76	5.94	2.87	5.15	21.60	14.55
2000	1.65	6.90	7.24	12.16	8.40	10.38	4.76	9.35	4.37	7.31	19.28	14.94
2005	2.98	14.26	12.95	16.84	14.56	16.96	—	14.61	6.83	14.06	22.49	19.97
2006	—	13.79	14.89	18.68	18.28	19.07	—	16.56	7.87	14.15	22.90	20.51
2007	3.16	12.84	16.22	20.83	20.60	20.81	—	18.22	8.70	13.58	23.64	20.94
2008	5.30	13.97	23.74	25.03	22.83	25.11	—	24.37	10.72	15.34	26.57	23.43
2009	5.62	11.43	13.95	19.22	21.44	17.41	—	15.92	6.61	11.96	26.21	22.05
2010	4.54	10.72	17.68	22.55	23.82	21.02	12.02	19.46	7.84	11.93	26.54	22.03
2011	5.12	10.32	23.73	26.25	27.12	26.68	—	24.69	9.01	12.37	28.92	23.95
2012	5.02	9.60	24.34	20.27	29.13	27.32	—	23.49	9.02	12.07	28.07	23.36
2013	5.00	9.24	23.84	20.33	28.96	26.68	—	23.08	9.50	11.64	29.27	23.70
2014	5.09	9.70	21.97	22.12	29.32	25.69	16.69	22.14	R 9.09	11.87	30.35	24.48
2015	5.18	8.38	13.60	12.78	16.65	18.29	—	15.77	R 6.19	R 10.64	28.98	22.90
2016	—	7.70	11.74	11.90	13.27	16.68	7.24	14.14	R 6.10	9.78	28.76	22.60
2017	—	8.54	13.75	15.81	16.60	18.57	—	16.45	R 7.87	11.12	29.57	23.61
2018	—	7.95	16.87	17.24	23.98	20.20	—	18.62	8.85	11.13	28.70	22.74
2019	—	8.00	15.52	13.59	22.39	18.82	—	17.06	R 8.37	10.63	29.37	23.29
2020	—	7.49	10.42	12.81	14.54	15.83	—	13.83	7.04	R 9.43	29.55	R 22.86
2021	—	8.36	15.86	19.95	22.97	22.06	—	19.82	8.45	R 11.92	31.11	R 24.63
2022	—	R 11.08	27.75	21.17	36.78	28.33	—	26.78	13.07	R 15.91	35.47	R 29.01
2023	—	10.46	21.97	16.96	32.72	25.53	—	23.06	11.95	14.43	31.35	26.17
	Expenditures in million dollars											
1970	0.7	28.6	4.0	7.1	0.1	5.1	0.2	16.6	0.1	46.0	163.1	209.1
1975	1.1	54.2	11.2	11.7	0.1	9.2	0.9	33.1	0.1	88.5	413.2	501.6
1980	0.7	189.1	11.6	19.6	0.4	18.9	0.2	50.7	0.6	241.0	597.5	838.5
1985	1.3	295.1	61.3	41.1	1.8	14.2	12.4	130.8	0.8	428.0	1,157.1	1,585.1
1990	0.8	285.2	48.1	37.0	3.1	22.5	1.3	112.0	1.7	399.7	1,745.6	2,145.3
1995	2.3	294.2	36.2	39.2	1.7	2.5	0.2	79.7	2.6	378.8	2,121.6	2,500.3
2000	0.3	413.3	52.2	62.1	2.0	12.0	0.1	128.4	3.8	545.9	2,528.4	3,074.3
2005	3.3	780.8	63.6	54.9	2.0	6.1	—	126.5	2.8	913.5	3,427.9	4,341.3
2006	—	683.5	70.3	60.6	0.7	7.0	—	138.6	3.0	825.2	3,558.6	4,383.7
2007	0.1	641.9	78.3	67.6	1.5	7.7	—	155.2	3.5	800.8	3,790.9	4,591.7
2008	1.8	736.7	103.6	94.4	1.0	9.3	—	208.2	4.5	951.2	4,250.1	5,201.3
2009	1.0	627.4	75.1	57.6	0.7	6.4	—	139.8	5.7	773.9	4,120.2	4,894.1
2010	0.9	658.7	109.5	82.7	3.3	7.6	2.4	205.4	6.6	871.5	4,338.1	5,209.6
2011	1.1	594.9	148.8	83.6	3.3	9.6	—	245.4	7.6	849.0	4,631.3	5,480.3
2012	1.0	506.2	209.0	55.8	0.8	9.7	—	275.3	7.5	790.0	4,400.0	5,190.0
2013	0.8	536.5	R 213.4	62.4	1.6	9.8	—	R 287.2	8.4	R 832.8	4,529.2	R 5,362.0
2014	0.5	582.3	R 202.0	75.4	1.6	9.1	0.2	R 288.2	R 8.3	879.3	4,827.0	5,706.3
2015	0.3	461.1	R 128.4	40.0	0.6	216.3	—	R 385.3	R 1.7	R 848.4	4,662.6	R 5,511.0
2016	—	406.5	R 118.6	35.1	1.7	202.7	(s)	R 358.1	R 1.5	R 766.1	4,687.6	R 5,453.7
2017	—	431.9	R 122.0	54.5	0.3	228.7	—	R 405.5	R 1.2	R 838.7	4,667.2	R 5,505.9
2018	—	461.9	R 136.8	70.0	0.8	251.9	—	R 459.5	R 1.5	R 923.0	4,633.1	R 5,556.1
2019	—	440.1	R 97.1	49.8	0.8	237.3	—	R 385.0	R 1.2	826.3	4,751.9	R 5,578.3
2020	—	388.1	R 64.8	53.7	0.5	200.5	—	R 319.6	R 2.5	R 710.2	4,466.3	R 5,176.5
2021	—	456.0	R 117.8	89.4	1.1	281.0	—	R 489.3	R 3.0	R 948.2	4,858.5	R 5,806.8
2022	—	R 635.6	R 208.6	105.9	1.6	370.2	—	R 686.3	R 4.6	R 1,326.5	5,995.2	R 7,321.7
2023	—	550.7	153.2	71.4	2.4	335.2	—	562.3	4.2	1,117.2	5,498.0	6,615.2

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[g] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[j] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: Expenditure totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2023, Georgia

Year	Primary energy												Electricity [i]	Total energy [f,g,h]
	Coal			Natural gas [a]	Petroleum						Biomass	Total [f,g,h]		
	Coking coal	Steam coal	Total		Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e,f]			
	Prices in dollars per million Btu													
1970	—	0.50	0.50	0.40	0.58	1.64	2.80	0.40	1.35	0.81	1.46	0.63	2.91	0.88
1975	—	1.31	1.31	0.82	2.05	2.97	4.73	1.69	2.62	2.23	1.46	1.43	7.33	2.26
1980	—	1.60	1.60	2.75	5.44	5.49	9.91	3.44	6.12	5.17	1.43	3.55	10.43	4.75
1985	—	1.82	1.82	4.41	6.36	10.67	8.76	4.20	7.46	6.12	1.43	4.67	13.09	6.25
1990	—	1.79	1.79	3.50	5.83	11.10	8.24	3.04	5.17	5.66	0.93	3.15	14.16	5.03
1995	—	1.77	1.77	3.46	4.50	8.37	7.85	2.76	5.16	5.08	1.17	2.89	13.24	4.70
2000	—	1.65	1.65	4.74	7.54	12.55	10.38	4.76	5.78	7.18	1.43	3.93	12.03	5.55
2005	—	2.98	2.98	9.94	13.33	17.92	16.96	6.84	7.76	10.67	2.78	7.37	15.47	8.92
2006	—	3.27	3.27	9.24	15.30	20.18	19.07	8.04	8.71	12.21	2.71	7.44	15.77	9.03
2007	—	3.16	3.16	8.61	16.38	22.54	20.81	8.73	9.48	12.94	2.57	7.29	16.21	9.05
2008	—	4.31	4.31	10.77	24.15	27.52	25.11	12.85	11.53	17.25	2.90	9.33	19.55	11.50
2009	—	4.13	4.13	6.07	14.99	21.43	17.41	9.62	12.86	14.36	2.73	7.08	17.93	9.46
2010	—	3.63	3.63	6.12	17.99	21.11	21.02	12.02	R 15.40	R 17.07	2.77	R 7.17	18.24	R 9.44
2011	—	4.37	4.37	5.79	23.89	25.61	26.68	16.43	R 18.70	R 21.67	2.83	R 7.79	19.34	R 10.26
2012	—	4.28	4.28	4.54	24.91	19.39	27.32	17.74	R 20.25	R 22.70	2.68	R 7.34	17.52	R 9.56
2013	—	4.19	4.19	5.30	24.38	19.45	26.68	17.81	R 22.53	R 23.38	2.56	R 7.43	18.39	R 9.71
2014	—	4.27	4.27	5.97	23.72	21.31	25.69	16.69	R 24.07	R 23.63	3.08	R 7.63	19.47	R 10.02
2015	—	3.95	3.95	4.32	15.12	11.57	18.29	9.22	R 20.26	R 17.01	3.01	R 5.75	17.21	R 8.08
2016	—	3.80	3.80	4.02	12.67	10.66	16.68	7.24	R 15.84	R 14.12	3.08	R 5.57	17.10	R 7.97
2017	—	3.73	3.73	4.52	14.38	14.56	18.57	9.46	14.57	14.74	3.02	6.17	17.46	8.57
2018	—	4.07	4.07	4.51	17.38	15.97	20.20	9.99	17.80	17.59	2.77	6.54	17.60	8.86
2019	—	4.23	4.23	4.12	16.07	12.29	18.82	9.52	R 17.73	R 16.82	2.72	6.15	18.09	8.63
2020	—	3.65	3.65	3.75	11.42	11.49	15.83	7.49	R 16.51	R 14.41	2.21	R 5.11	16.91	R 7.58
2021	—	3.77	3.77	5.30	15.76	18.54	22.06	11.21	R 19.20	R 18.04	2.86	R 6.84	19.02	R 9.42
2022	—	7.88	7.88	R 8.72	27.09	19.67	28.33	16.69	R 25.53	25.73	3.11	R 9.99	25.36	R 13.40
2023	—	7.04	7.04	5.22	23.51	15.40	25.53	14.72	22.50	22.57	3.30	8.18	20.16	10.74
	Expenditures in million dollars													
1970	—	6.0	6.0	58.0	13.5	14.5	1.8	21.0	47.7	98.6	20.3	182.8	107.9	290.8
1975	—	13.3	13.3	122.1	42.2	36.2	1.5	66.2	104.3	250.3	22.4	408.1	346.8	754.9
1980	—	26.5	26.5	440.0	126.4	61.7	1.4	115.4	304.4	609.3	21.4	1,097.2	682.6	1,779.8
1985	—	70.1	70.1	613.4	148.6	70.0	57.5	249.9	336.3	862.3	25.1	1,570.9	1,013.9	2,584.9
1990	—	99.6	99.6	559.8	163.2	67.7	55.8	32.6	286.8	606.1	103.6	1,369.2	1,269.2	2,638.4
1995	—	86.0	86.0	625.9	127.0	67.2	33.9	32.0	276.2	536.3	188.5	1,436.7	1,387.8	2,824.5
2000	—	84.1	84.1	747.7	280.9	146.4	53.0	26.2	329.0	835.4	224.8	1,892.0	1,445.5	3,337.5
2005	—	129.6	129.6	1,607.3	530.8	144.2	238.7	129.6	479.8	1,523.2	421.9	3,682.0	1,826.8	5,508.7
2006	—	133.0	133.0	1,517.9	523.4	167.5	277.6	96.7	551.0	1,616.0	433.3	3,700.3	1,861.0	5,561.3
2007	—	122.8	122.8	1,352.7	543.6	159.2	190.9	73.7	600.3	1,567.7	399.0	3,442.2	1,883.8	5,326.0
2008	—	157.0	157.0	1,661.5	658.3	148.8	212.1	60.5	582.8	1,662.4	362.2	3,843.1	2,170.1	6,013.2
2009	—	109.7	109.7	871.4	414.6	108.5	142.2	20.7	584.0	1,270.0	264.9	2,515.9	1,795.6	4,311.6
2010	—	114.7	114.7	866.6	520.2	142.9	139.1	23.5	R 645.9	R 1,471.6	374.8	R 2,827.6	1,860.1	R 4,687.7
2011	—	127.9	127.9	855.1	653.9	164.2	175.7	47.6	R 653.2	R 1,694.7	395.3	R 3,073.0	2,080.1	R 5,153.1
2012	—	92.8	92.8	675.3	757.8	120.1	174.6	19.9	R 582.9	R 1,655.3	367.6	R 2,791.0	1,866.4	R 4,657.4
2013	—	78.2	78.2	849.9	739.8	121.1	184.3	11.7	R 654.4	R 1,711.3	402.4	R 3,041.9	1,972.5	R 5,014.4
2014	—	90.4	90.4	976.3	746.6	156.8	153.0	20.9	R 598.2	R 1,675.5	534.3	R 3,276.4	2,115.7	R 5,392.1
2015	—	47.9	47.9	698.1	436.0	76.3	114.3	2.3	R 528.0	R 1,156.9	564.1	R 2,467.0	1,887.0	R 4,354.0
2016	—	42.2	42.2	629.0	405.9	67.4	106.0	8.0	R 552.7	R 1,140.0	528.1	R 2,339.3	1,884.2	R 4,223.5
2017	—	31.2	31.2	698.3	446.4	77.1	119.5	7.7	674.4	1,325.2	473.4	2,528.1	1,921.6	4,449.7
2018	—	34.3	34.3	733.6	539.7	109.3	132.4	10.8	737.8	1,530.0	448.3	2,746.3	1,963.2	4,709.4
2019	—	33.2	33.2	659.8	413.4	78.0	123.1	9.2	R 820.3	R 1,444.1	457.1	R 2,594.2	1,998.9	R 4,593.1
2020	—	25.2	25.2	590.4	250.2	67.4	104.7	8.9	R 638.2	R 1,069.4	353.0	R 2,038.0	1,777.4	R 3,815.4
2021	—	27.3	27.3	881.3	465.0	110.8	145.5	11.1	R 743.1	R 1,475.3	458.2	R 2,842.1	2,125.6	R 4,967.7
2022	—	51.3	51.3	R 1,383.8	807.8	133.2	192.4	16.9	R 999.3	R 2,149.6	R 497.8	R 4,082.5	2,959.9	R 7,042.3
2023	—	30.9	30.9	838.1	684.3	82.4	174.2	12.4	961.8	1,915.0	501.7	3,285.7	2,205.7	5,491.4

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[i] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET6. Transportation sector energy price and expenditure estimates, selected years, 1970-2023, Georgia

Year	Primary energy											Electricity [g]	Total energy [f]
			Petroleum										
	Coal	Natural gas[a]	Aviation gasoline	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Lubricants	Motor gasoline [e]	Residual fuel oil	Total	Total [f]		
	Prices in dollars per million Btu												
1970	0.50	—	2.17	1.32	1.56	0.73	5.08	2.80	0.28	2.33	2.33	—	2.33
1975	1.31	—	3.45	3.02	2.74	2.03	7.48	4.73	1.52	4.11	4.11	—	4.11
1980	—	—	9.02	7.48	5.04	6.46	14.36	9.91	2.91	8.73	8.73	10.06	8.73
1985	—	—	9.99	6.74	10.49	5.66	18.18	8.76	3.38	7.91	7.91	12.92	7.91
1990	—	—	9.32	7.67	10.93	5.45	20.61	8.24	1.85	7.70	7.70	19.41	7.70
1995	—	3.76	8.36	6.86	10.53	3.80	21.75	7.85	2.17	7.11	7.11	19.66	7.12
2000	—	6.31	10.87	9.42	14.66	6.38	23.20	10.38	4.11	9.84	9.84	20.57	9.84
2005	—	11.51	18.56	16.22	19.12	12.41	35.22	16.96	7.46	16.30	16.30	17.29	16.30
2006	—	12.67	22.31	18.08	20.64	14.47	43.88	19.07	10.38	18.26	18.26	17.94	18.26
2007	—	12.57	23.70	19.17	22.53	15.46	47.16	20.81	9.37	19.84	19.83	18.82	19.83
2008	—	12.62	27.23	26.49	26.61	22.80	55.12	25.11	13.27	24.82	24.80	20.96	24.80
2009	—	11.83	20.32	16.33	20.01	12.59	56.07	17.41	9.51	16.42	16.41	20.60	16.42
2010	—	5.06	25.19	20.76	24.06	16.24	58.80	21.02	11.63	19.98	19.96	21.88	19.96
2011	—	5.47	31.64	26.70	28.44	22.55	69.54	26.68	15.89	25.56	25.54	23.28	25.53
2012	—	14.29	33.04	27.59	22.11	22.84	72.11	27.32	17.68	26.51	26.49	22.44	26.49
2013	—	R 15.04	32.71	27.27	22.17	21.91	69.42	26.68	16.98	26.03	R 26.01	23.54	R 26.01
2014	—	R 15.46	33.16	26.50	24.06	20.00	69.44	25.69	19.95	25.13	25.12	20.46	25.12
2015	—	R 15.17	24.86	18.78	15.17	12.24	67.28	18.29	10.74	17.66	R 17.66	15.44	17.65
2016	—	R 15.52	21.62	15.81	15.26	10.04	65.78	16.68	7.80	15.61	R 15.61	14.87	R 15.61
2017	—	R 16.07	24.13	18.16	19.49	12.18	67.25	18.57	11.03	17.69	R 17.69	15.67	R 17.69
2018	—	R 15.38	27.04	21.55	21.04	15.50	72.37	20.20	13.79	19.89	19.88	16.17	19.88
2019	—	R 16.16	25.57	20.74	17.16	14.45	74.92	18.82	12.98	18.72	R 18.72	17.14	18.71
2020	—	R 15.10	22.34	17.47	16.05	10.41	75.34	15.83	9.46	15.95	R 15.95	15.81	R 15.95
2021	—	R 15.82	28.86	22.33	24.62	14.39	81.25	22.06	14.30	21.45	21.44	19.37	R 21.44
2022	—	R 19.48	36.02	34.61	24.92	25.06	97.37	28.33	25.95	R 29.50	R 29.48	27.33	R 29.48
2023	—	17.53	32.62	29.19	20.12	20.28	105.48	25.53	20.73	25.77	25.76	21.38	25.76
	Expenditures in million dollars												
1970	(s)	—	6.6	59.6	0.6	42.8	16.9	788.3	0.3	915.2	915.2	—	915.2
1975	(s)	—	6.9	181.7	1.1	147.4	23.4	1,618.2	4.1	1,982.8	1,982.9	—	1,982.9
1980	—	—	17.6	616.2	1.5	598.1	53.8	3,389.1	54.8	4,731.1	4,731.1	0.6	4,731.6
1985	—	—	10.7	714.2	8.5	518.0	62.0	3,285.2	21.5	4,620.1	4,620.1	2.7	4,622.8
1990	—	—	9.2	986.3	4.4	567.9	79.1	3,522.8	15.2	5,184.9	5,190.7	5.0	5,195.7
1995	—	0.6	6.6	1,089.3	5.7	397.5	79.6	3,955.0	18.9	5,552.6	5,553.2	6.3	5,559.5
2000	—	3.0	5.8	1,852.5	6.6	471.8	90.7	5,936.8	21.3	8,385.4	8,388.4	6.8	8,395.1
2005	—	11.0	20.9	4,034.2	20.4	673.7	116.1	10,526.2	208.8	15,600.3	15,611.3	10.3	15,621.5
2006	—	12.7	20.7	4,308.0	20.5	537.7	141.0	11,623.0	520.2	17,171.1	17,183.8	10.9	17,194.7
2007	—	13.4	19.4	4,310.5	18.1	589.6	156.4	12,757.7	333.1	18,184.9	18,198.3	11.5	18,209.8
2008	—	13.9	13.8	5,024.6	39.3	818.8	169.8	14,584.7	591.2	21,242.3	21,256.2	13.0	21,269.1
2009	—	13.0	9.6	R 2,948.1	20.2	1,286.1	155.3	10,265.2	400.6	R 15,085.0	R 15,098.0	12.6	R 15,110.6
2010	—	4.7	18.1	3,973.0	3.0	2,307.2	326.4	12,259.7	622.4	19,509.7	R 19,514.4	12.9	R 19,527.3
2011	—	6.1	19.3	R 4,900.4	7.1	3,175.0	366.3	14,893.8	1,066.6	R 24,428.6	R 24,434.7	13.5	R 24,448.3
2012	—	16.0	24.9	R 4,588.1	5.9	3,084.3	327.3	15,117.9	690.5	R 23,838.8	R 23,854.8	12.0	R 23,866.8
2013	—	R 15.2	19.2	R 4,924.5	8.3	3,037.5	339.8	15,318.1	456.9	R 24,104.3	R 24,119.5	12.6	R 24,132.1
2014	—	R 17.0	23.3	R 4,893.0	9.3	2,801.4	334.2	14,198.7	239.0	R 22,498.9	R 22,515.9	11.5	R 22,527.4
2015	—	R 24.8	14.6	R 3,768.3	8.1	1,798.6	369.5	10,543.4	102.4	R 16,604.9	R 16,629.7	9.0	R 16,638.7
2016	—	R 14.9	13.0	R 2,888.1	9.8	1,487.7	318.6	9,317.8	57.9	R 14,093.0	R 14,107.9	8.7	R 14,116.6
2017	—	R 33.4	14.8	R 3,822.5	5.2	R 1,803.8	325.1	10,868.1	64.7	R 16,904.2	R 16,937.6	9.0	R 16,946.6
2018	—	R 32.1	18.5	R 3,856.1	6.8	R 2,266.3	308.0	11,797.4	133.8	R 18,387.0	R 18,419.1	9.4	R 18,428.4
2019	—	R 29.8	19.0	R 3,950.6	7.2	R 2,213.7	R 309.1	10,780.6	53.7	R 17,333.8	R 17,363.6	9.6	R 17,373.2
2020	—	R 24.6	14.2	R 3,417.6	5.8	R 866.7	R 292.6	8,393.6	10.3	R 13,000.9	R 13,025.5	7.6	R 13,033.1
2021	—	R 24.7	20.7	R 4,346.3	12.7	R 1,422.9	R 321.9	12,028.5	98.0	R 18,250.8	R 18,275.5	9.4	R 18,284.9
2022	—	R 29.0	26.7	R 6,497.4	18.6	R 3,336.6	R 395.5	15,031.9	182.1	R 25,488.8	R 25,517.8	13.4	R 25,531.2
2023	—	25.9	23.0	5,390.3	19.8	2,601.2	328.1	15,011.5	120.8	23,494.6	23,520.5	10.5	23,531.0

[a] Transportation use of natural gas as vehicle fuel only.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET7. Electric power sector price and expenditure estimates, selected years, 1970-2023, Georgia

Year	Coal	Natural gas [a]	Petroleum: Distillate fuel oil	Petroleum: Petroleum coke	Petroleum: Residual fuel oil	Petroleum: Total	Nuclear fuel	Biomass: Wood and waste [b]	Electricity imports [c]	Total energy [d]
	Prices in dollars per million Btu									
1970	0.38	0.29	0.39	—	0.31	0.31	—	—	—	0.35
1975	0.93	0.71	2.30	—	1.74	1.85	0.13	—	—	0.91
1980	1.50	2.56	6.22	—	3.47	4.48	0.45	—	—	1.38
1985	1.88	4.31	5.65	—	3.59	5.22	0.72	—	—	1.73
1990	1.79	2.97	5.44	—	2.18	4.26	0.87	—	—	1.53
1995	1.67	2.72	3.98	—	2.15	3.56	0.55	0.70	—	1.33
2000	1.54	4.18	6.91	—	4.25	5.89	0.45	0.67	—	1.36
2005	2.17	10.17	12.52	—	7.49	10.46	0.44	2.28	—	2.21
2006	2.40	7.08	14.10	—	10.30	12.93	0.44	2.32	—	2.26
2007	2.61	7.25	15.82	—	8.90	14.51	0.49	2.42	—	2.52
2008	3.04	10.05	16.22	—	13.42	16.09	0.46	2.66	—	2.93
2009	3.61	4.54	12.46	—	9.39	12.39	0.52	2.20	—	2.86
2010	3.91	5.09	17.04	—	12.87	16.78	0.63	2.40	—	3.18
2011	3.75	4.64	22.85	—	19.14	22.56	0.75	2.44	—	3.03
2012	3.47	3.35	24.24	—	—	24.24	0.83	2.21	—	2.58
2013	3.17	4.38	23.39	—	—	23.39	0.87	2.26	—	2.75
2014	3.10	4.86	21.96	—	22.66	21.98	0.86	2.73	—	2.91
2015	2.93	3.17	16.66	—	11.78	16.49	0.75	2.62	—	2.33
2016	2.79	2.99	9.68	—	—	9.68	0.81	2.54	—	2.24
2017	2.77	3.47	12.36	—	—	12.36	0.80	2.40	—	2.38
2018	2.75	3.90	15.66	—	—	15.66	0.79	2.22	—	2.53
2019	2.69	2.88	14.98	—	—	14.98	0.77	2.33	—	2.14
2020	2.69	2.32	10.89	—	—	10.89	0.77	1.80	—	1.81
2021	2.75	4.25	17.63	—	—	R 17.46	0.75	2.39	—	2.67
2022	3.88	R 7.87	28.73	—	—	R 28.63	0.72	2.69	—	R 4.55
2023	4.48	3.05	24.66	—	—	24.43	0.77	2.93	—	2.43
	Expenditures in million dollars									
1970	67.7	17.3	0.1	—	3.0	3.1	—	—	—	88.1
1975	280.1	29.3	14.4	—	44.3	58.7	4.3	—	—	372.6
1980	756.7	9.7	15.1	—	14.6	29.7	41.7	—	—	837.7
1985	1,287.7	3.9	7.7	—	1.3	9.0	78.0	—	—	1,378.5
1990	1,174.2	5.9	6.9	—	1.6	8.5	227.9	—	—	1,416.4
1995	1,122.9	31.0	8.9	—	1.5	10.4	176.0	0.2	—	1,340.5
2000	1,184.8	178.3	40.5	—	15.6	56.1	154.0	0.1	—	1,573.2
2005	1,856.7	768.2	20.9	—	8.6	29.5	144.3	0.5	—	2,799.2
2006	2,041.5	702.2	11.1	—	3.6	14.8	146.3	0.5	—	2,905.2
2007	2,334.8	917.8	14.5	—	1.9	16.4	165.8	0.4	—	3,435.2
2008	2,580.5	1,001.7	15.4	—	0.6	16.0	151.5	1.1	—	3,750.8
2009	2,514.7	669.6	13.7	—	0.2	13.9	172.5	0.9	—	3,371.7
2010	2,878.1	912.2	19.7	—	1.0	20.6	222.4	8.1	—	4,041.4
2011	2,271.3	927.4	21.3	—	1.5	22.8	252.5	7.0	—	3,481.2
2012	1,436.1	1,047.5	18.1	—	—	18.1	294.3	7.9	—	2,803.9
2013	1,292.8	1,243.8	17.5	—	—	17.5	297.9	16.5	—	2,868.5
2014	1,430.2	1,444.1	43.4	—	1.5	44.9	291.6	23.9	—	3,234.7
2015	1,120.2	1,163.1	22.9	—	0.6	23.5	264.8	24.5	—	2,596.2
2016	1,083.1	1,168.2	10.1	—	—	10.1	290.9	24.3	—	2,576.5
2017	930.3	1,324.9	13.6	—	—	13.6	280.5	32.5	—	2,581.7
2018	911.5	1,498.3	39.2	—	—	39.2	282.3	25.7	—	2,756.9
2019	714.0	1,260.1	12.9	—	—	12.9	271.6	34.3	—	2,292.9
2020	393.8	1,019.8	6.5	—	—	6.5	262.5	42.4	—	1,724.9
2021	540.9	1,762.6	15.0	—	—	15.0	265.9	65.4	—	2,650.0
2022	676.3	R 3,507.9	62.4	—	—	62.4	256.2	71.2	—	R 4,573.9
2023	775.1	1,342.1	11.1	—	—	11.1	301.6	78.6	—	2,508.5

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[c] Electricity imported from Canada and Mexico.
[d] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET1. Primary energy, electricity, and total energy price and expenditure estimates, selected years, 1970-2023, Hawaii

Year	Primary energy														Electric power sector [i,k,l]	Electricity [m]	Total energy [h,i,j]
	Coal			Natural gas [a]	Petroleum							Nuclear fuel	Biomass				
	Coking coal	Steam coal	Total		Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total		Wood and waste [g,h]	Total [h,i,j,k]			
	Prices in dollars per million Btu																
1970	—	—	—	—	1.04	1.63	0.73	3.32	0.40	1.26	1.08	—	1.07	1.08	0.41	6.98	1.72
1975	—	—	—	—	2.30	2.79	2.04	5.44	1.59	2.85	2.52	—	1.54	2.52	1.58	12.80	3.95
1980	—	—	—	13.06	6.58	5.03	6.21	10.81	3.80	6.75	6.16	—	4.06	6.22	3.97	22.01	8.67
1985	—	2.30	2.30	14.20	7.86	11.42	6.21	11.14	4.81	7.58	6.79	—	3.79	6.81	4.94	29.81	10.22
1990	—	1.81	1.81	12.24	7.86	11.97	5.99	11.71	4.03	7.31	6.40	—	0.42	6.20	4.01	26.56	9.92
1995	—	1.48	1.48	13.30	7.31	11.03	4.44	11.51	2.98	6.93	5.90	—	0.89	5.45	2.78	33.24	11.14
2000	—	1.49	1.49	16.18	9.30	18.16	6.98	13.45	4.99	6.37	8.05	—	0.73	7.44	4.74	41.24	15.23
2005	—	1.49	1.49	24.30	15.72	23.73	12.93	20.73	8.52	13.90	13.79	—	2.29	12.99	7.84	53.88	21.39
2006	—	1.72	1.72	27.54	19.07	26.36	15.10	23.98	9.75	35.65	16.00	—	1.77	15.06	9.50	60.91	24.33
2007	—	1.94	1.94	26.83	20.25	28.69	16.22	24.60	11.03	38.76	17.00	—	2.22	15.99	10.26	62.57	24.98
2008	—	2.29	2.29	36.73	26.12	34.66	22.40	29.48	16.15	46.81	22.75	—	2.37	20.91	14.81	85.78	35.87
2009	—	2.33	2.33	28.82	16.84	27.39	12.66	22.91	9.44	19.54	15.10	—	1.62	14.04	8.88	62.36	25.21
2010	—	2.32	2.32	35.29	21.94	31.49	16.39	27.98	13.37	R 21.69	R 19.09	—	1.90	R 17.82	12.15	73.80	R 29.13
2011	—	1.83	1.83	43.43	29.18	32.34	22.67	34.45	19.21	R 25.61	R 25.47	—	2.10	R 23.75	17.14	92.78	R 37.16
2012	—	2.01	2.01	44.19	R 30.62	29.92	22.94	36.20	21.03	R 30.40	26.64	—	1.86	R 24.71	18.38	99.96	R 38.62
2013	—	2.12	2.12	41.19	R 30.16	27.36	22.60	34.82	19.87	R 27.81	R 25.75	—	1.74	R 23.89	17.57	97.51	R 37.08
2014	—	2.59	2.59	41.67	R 27.34	29.33	21.04	33.69	19.02	R 27.93	R 24.37	—	2.07	R 22.51	16.46	98.00	R 36.25
2015	—	3.30	3.30	31.65	R 21.89	18.27	12.33	27.67	9.97	R 25.06	R 16.67	—	1.59	R 15.64	9.39	76.75	R 27.10
2016	—	3.09	3.09	27.31	R 20.13	19.54	10.35	24.07	7.73	R 23.40	R 14.28	—	1.01	R 13.34	7.40	70.01	23.94
2017	—	3.08	3.08	30.06	R 20.67	21.11	12.10	26.83	10.20	22.83	R 16.13	—	1.21	R 15.28	9.41	76.40	R 26.10
2018	—	3.28	3.28	34.29	R 23.55	21.81	15.79	30.74	13.05	26.82	R 19.55	—	1.13	R 18.51	11.87	85.59	R 30.37
2019	—	3.51	3.51	34.13	R 22.04	18.18	14.76	31.20	12.00	R 28.63	R 18.66	—	1.49	R 17.76	11.19	84.23	R 29.46
2020	—	3.46	3.46	30.63	R 19.18	17.06	9.75	26.54	8.88	R 27.30	R 15.30	—	1.13	R 14.39	8.30	80.78	R 30.07
2021	—	3.37	3.37	40.23	R 22.80	24.65	14.44	34.63	13.29	R 26.78	R 20.07	—	R 1.24	R 18.99	R 11.88	88.86	32.69
2022	—	3.85	3.85	50.71	33.04	26.51	25.31	46.14	23.34	R 36.08	30.23	—	1.41	R 29.07	R 21.65	116.45	44.71
2023	—	—	—	46.08	31.05	21.98	20.50	42.17	19.32	34.06	26.02	—	1.74	25.71	19.49	113.17	40.33
	Expenditures in million dollars																
1970	—	—	—	—	9.9	5.5	58.4	99.2	24.7	5.9	203.5	—	0.3	203.8	-17.4	87.4	273.9
1975	—	—	—	—	25.6	7.6	170.3	193.5	108.5	12.6	518.1	—	0.5	518.6	-92.4	225.3	651.5
1980	—	—	—	39.4	228.7	24.6	492.4	410.7	308.6	25.4	1,490.3	—	10.0	1,539.7	-275.8	456.9	1,720.7
1985	—	2.6	2.6	38.1	207.1	5.7	462.1	444.4	395.4	27.3	1,542.0	—	11.9	1,594.7	-342.5	654.7	1,906.9
1990	—	1.3	1.3	36.5	297.0	7.9	425.3	533.4	468.5	32.9	1,764.9	—	4.9	1,807.6	-422.5	732.9	2,117.9
1995	—	29.4	29.4	38.7	246.0	33.6	250.5	563.9	266.8	32.0	1,392.8	—	9.4	1,470.2	-285.3	1,017.7	2,202.7
2000	—	26.3	26.3	47.2	275.5	38.2	373.4	650.0	415.5	31.1	1,783.7	—	5.9	1,863.0	-499.0	1,341.2	2,705.1
2005	—	24.6	24.6	69.3	667.7	38.1	1,199.9	1,181.7	669.5	28.4	3,785.4	—	13.0	3,892.2	-793.2	1,897.8	4,996.9
2006	—	27.7	27.7	78.8	739.8	45.6	1,313.2	1,434.2	858.4	27.5	4,418.7	—	10.8	4,535.9	-959.0	2,152.2	5,729.1
2007	—	33.1	33.1	77.6	1,088.1	42.1	1,173.3	1,435.5	1,102.0	30.0	4,871.1	—	13.0	4,994.8	-1,031.0	2,213.3	6,177.1
2008	—	41.4	41.4	101.4	830.0	89.5	1,359.2	1,607.0	1,222.2	31.1	5,138.9	—	15.7	5,297.3	-1,447.2	2,978.3	6,828.5
2009	—	39.8	39.8	76.9	588.6	85.1	667.7	1,263.6	707.5	100.5	3,413.0	—	10.3	R 3,539.9	-846.9	2,111.7	4,804.8
2010	—	39.7	39.7	94.7	868.3	98.7	1,248.2	1,416.9	961.4	R 131.7	R 4,725.1	—	11.4	R 4,870.9	-1,140.3	2,473.3	R 6,203.9
2011	—	29.4	29.4	116.7	R 1,062.0	111.4	1,790.5	1,943.7	1,363.3	R 143.4	R 6,414.2	—	13.1	R 6,573.4	-1,592.1	3,090.5	R 8,071.8
2012	—	33.3	33.3	121.9	R 1,063.1	101.6	1,914.2	1,939.7	1,378.6	R 114.6	R 6,511.9	—	12.1	R 6,679.1	-1,619.8	3,219.0	R 8,278.3
2013	—	32.4	32.4	118.2	R 975.0	86.6	1,980.4	1,893.3	1,271.5	R 155.8	R 6,362.6	—	13.7	R 6,527.0	-1,482.4	3,153.6	R 8,198.2
2014	—	44.7	44.7	116.5	R 668.1	99.3	1,877.1	1,846.1	1,150.0	R 147.5	R 5,788.0	—	15.4	R 5,964.5	-1,373.1	3,159.3	R 7,750.8
2015	—	51.5	51.5	90.8	R 574.8	52.4	1,137.7	1,546.4	592.7	R 125.1	R 4,029.1	—	11.4	R 4,182.8	-776.2	2,474.9	R 5,881.6
2016	—	50.8	50.8	81.4	R 510.2	60.0	946.7	1,365.4	461.3	R 80.6	R 3,424.3	—	8.3	R 3,564.7	-607.8	2,242.6	R 5,199.5
2017	—	46.0	46.0	91.0	R 544.4	80.7	1,179.3	1,513.4	635.1	73.4	R 4,026.4	—	6.5	R 4,169.8	-767.4	2,416.2	R 5,818.6
2018	—	47.1	47.1	108.2	R 695.2	77.5	R 1,562.4	1,702.1	791.2	74.6	R 4,902.9	—	6.0	R 5,064.2	-961.5	2,710.1	R 6,812.8
2019	—	49.8	49.8	106.5	R 632.7	67.0	R 1,492.4	1,737.2	761.5	R 72.3	R 4,763.1	—	7.2	R 4,926.6	-911.6	2,700.5	R 6,715.5
2020	—	45.9	45.9	70.4	R 529.7	57.4	R 501.2	1,153.7	475.6	62.5	R 2,780.2	—	R 5.0	R 2,901.4	-628.8	2,412.7	R 4,685.3
2021	—	42.4	42.4	102.7	R 626.9	103.0	R 1,103.7	1,706.6	782.2	R 72.3	R 4,394.7	—	5.7	R 4,545.5	-898.1	2,696.6	R 6,344.0
2022	—	29.5	29.5	139.2	R 979.2	104.1	R 2,235.8	2,291.7	1,492.9	R 98.2	R 7,201.9	—	6.4	R 7,377.0	-1,657.2	3,574.9	R 9,294.7
2023	—	—	—	126.2	908.2	81.1	1,953.3	2,126.5	1,285.4	101.4	6,455.8	—	8.0	6,590.0	-1,440.7	3,431.0	8,580.3

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[l] Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
[m] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET2. Total end-use energy price and expenditure estimates, selected years, 1970-2023, Hawaii

Year	Primary energy											Electricity [k]	Total energy [h,i,j]
			Petroleum							Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g,h]	Total [h,i,j]		
	Prices in dollars per million Btu												
1970	—	—	1.07	1.63	0.73	3.32	0.39	1.26	1.27	4.06	1.27	6.98	1.72
1975	—	—	2.47	2.79	2.04	5.44	1.64	2.85	2.89	4.06	2.89	12.80	3.95
1980	—	13.06	6.83	5.03	6.21	10.81	3.53	6.75	7.05	4.06	7.11	22.01	8.67
1985	2.30	14.20	8.15	11.42	6.21	11.14	4.63	7.58	7.60	4.06	7.61	29.81	10.22
1990	1.82	12.24	8.67	11.97	5.99	11.71	3.65	7.31	7.53	1.23	7.45	26.56	9.92
1995	1.91	13.30	9.02	11.03	4.44	11.51	2.98	6.93	7.27	1.19	7.09	33.24	11.14
2000	2.40	16.18	10.74	18.16	6.98	13.45	4.79	6.37	9.54	0.85	9.40	41.24	15.23
2005	2.10	24.30	18.71	23.73	12.93	20.73	6.92	13.90	15.99	2.29	15.62	53.88	21.39
2006	2.06	27.54	21.18	26.36	15.10	23.98	9.07	35.65	18.38	1.77	17.87	60.91	24.33
2007	2.67	26.83	21.60	28.69	16.22	24.60	11.25	38.76	19.21	2.22	18.71	62.57	24.98
2008	2.96	36.73	28.30	34.66	22.40	29.48	15.53	46.81	25.89	2.37	24.74	85.78	35.87
2009	3.00	28.82	18.68	27.39	12.66	22.91	9.55	19.54	17.84	1.62	17.19	62.36	25.21
2010	3.42	35.29	24.13	31.49	16.39	27.98	12.19	R 21.69	R 21.37	1.89	R 20.79	73.80	R 29.13
2011	3.78	43.43	32.31	32.34	22.67	34.45	16.21	R 25.61	R 27.82	2.07	R 27.09	92.78	R 37.16
2012	3.59	44.19	R 33.89	29.92	22.94	36.20	17.43	R 30.40	28.59	1.84	R 27.77	99.96	R 38.62
2013	3.80	41.19	R 33.92	27.36	22.60	34.82	16.92	R 27.81	R 27.71	1.70	R 26.72	97.51	R 37.08
2014	3.78	41.67	R 31.44	29.33	21.04	33.69	16.93	R 27.93	R 26.12	2.01	R 25.29	98.00	R 36.25
2015	3.66	31.65	R 28.65	18.27	12.33	27.67	9.14	R 25.06	R 18.93	1.45	R 18.44	76.75	R 27.10
2016	3.46	27.31	R 27.62	19.54	10.35	24.07	6.19	R 23.40	R 16.41	0.78	R 15.97	70.01	23.94
2017	—	30.06	R 26.54	21.11	12.10	26.83	8.75	22.83	R 17.91	0.63	R 17.78	76.40	R 26.10
2018	—	34.29	R 28.32	21.81	15.79	30.74	11.54	26.82	R 21.50	0.72	R 21.30	85.59	R 30.37
2019	—	34.13	R 27.44	18.18	14.76	31.20	10.57	R 28.63	R 20.64	1.18	R 20.50	84.23	R 29.46
2020	—	30.63	R 25.91	17.06	9.75	26.54	7.58	R 27.30	R 18.28	0.92	R 18.05	80.78	R 30.07
2021	—	40.23	R 29.00	24.65	14.44	34.63	11.85	R 26.78	R 22.52	R 0.75	R 22.28	88.86	32.69
2022	—	50.71	39.38	26.51	25.31	46.14	20.81	R 36.08	R 32.68	0.91	32.28	116.45	44.71
2023	—	46.08	38.89	21.98	20.50	42.17	17.34	34.06	28.54	1.07	28.23	113.17	40.33
	Expenditures in million dollars												
1970	—	—	9.7	5.5	58.4	99.2	7.7	5.9	186.3	0.1	186.4	87.4	273.9
1975	—	—	21.3	7.6	170.3	193.5	20.6	12.6	425.9	0.3	426.2	225.3	651.5
1980	—	39.4	201.8	24.6	492.4	410.7	59.6	25.4	1,214.5	10.0	1,263.9	456.9	1,720.7
1985	2.6	38.1	179.1	5.7	462.1	444.4	81.2	27.3	1,199.8	11.7	1,252.2	654.7	1,906.9
1990	1.3	36.5	235.9	7.9	425.3	533.4	107.1	32.9	1,342.4	4.9	1,385.0	732.9	2,117.9
1995	7.9	38.7	187.4	33.6	250.5	563.9	66.2	32.0	1,133.6	4.8	1,185.0	1,017.7	2,202.7
2000	5.1	47.2	144.6	38.2	373.4	650.0	72.0	31.1	1,309.3	2.3	1,363.9	1,341.2	2,705.1
2005	3.0	69.3	513.5	38.1	1,199.9	1,181.7	52.2	28.4	3,013.9	13.0	3,099.1	1,897.8	4,996.9
2006	3.4	78.8	520.3	45.6	1,313.2	1,434.2	143.2	27.5	3,484.0	10.8	3,576.9	2,152.2	5,729.1
2007	4.8	77.6	871.6	42.1	1,173.3	1,435.5	315.8	30.0	3,868.4	13.0	3,963.8	2,213.3	6,177.1
2008	6.8	101.4	539.4	89.5	1,359.2	1,607.0	100.2	31.1	3,726.3	15.7	3,850.2	2,978.3	6,828.5
2009	6.1	76.9	R 410.1	85.1	667.7	1,263.6	72.9	100.5	2,599.9	10.2	R 2,693.0	2,111.7	4,804.8
2010	4.8	94.7	642.0	98.7	1,248.2	1,416.9	82.4	R 131.7	R 3,619.8	11.3	R 3,730.6	2,473.3	R 6,203.9
2011	4.9	116.7	R 754.0	111.4	1,790.5	1,943.7	105.0	R 143.4	R 4,848.0	11.7	R 4,981.3	3,090.5	R 8,071.8
2012	4.1	121.9	R 749.9	101.6	1,914.2	1,939.7	102.1	R 114.6	R 4,922.2	11.2	R 5,059.3	3,219.0	R 8,278.3
2013	5.2	118.2	R 690.3	86.6	1,980.4	1,893.3	102.4	R 155.8	R 4,908.7	12.6	R 5,044.7	3,153.6	R 8,198.2
2014	5.2	116.5	R 395.9	99.3	1,877.1	1,846.1	90.2	R 147.5	R 4,456.1	13.7	R 4,591.4	3,159.3	R 7,750.8
2015	4.2	90.8	R 400.1	52.4	1,137.7	1,546.4	40.8	R 125.1	R 3,302.5	9.2	R 3,406.7	2,474.9	R 5,881.6
2016	0.9	81.4	R 376.2	60.0	946.7	1,365.4	40.1	R 80.6	R 2,869.0	5.5	R 2,956.9	2,242.6	R 5,199.5
2017	—	91.0	R 379.1	80.7	1,179.3	1,513.4	83.2	73.4	R 3,309.2	2.3	R 3,402.4	2,416.2	R 5,818.6
2018	—	108.2	R 484.5	77.5	R 1,562.4	1,702.1	90.7	74.6	R 3,991.7	2.8	R 4,102.7	2,710.1	R 6,812.8
2019	—	106.5	R 421.4	67.0	R 1,492.4	1,737.2	114.0	R 72.3	R 3,904.3	4.2	R 4,015.0	2,700.5	R 6,715.5
2020	—	70.4	R 388.0	57.4	R 501.2	1,153.7	36.3	62.5	R 2,199.2	3.0	R 2,272.6	2,412.7	R 4,685.3
2021	—	102.7	R 433.2	103.0	R 1,103.7	1,706.6	123.4	R 72.3	R 3,542.3	2.4	R 3,647.4	2,696.6	R 6,344.0
2022	—	139.2	R 625.8	104.1	R 2,235.8	2,291.7	222.1	R 98.2	R 5,577.7	2.9	R 5,719.8	3,574.9	R 9,294.7
2023	—	126.2	604.1	81.1	1,953.3	2,126.5	153.6	101.4	5,020.0	3.1	5,149.3	3,431.0	8,580.3

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. · Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2023, Hawaii

Year	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
	Prices in dollars per million Btu									
1970	—	—	1.27	4.06	—	4.03	—	4.03	8.22	7.59
1975	—	—	2.80	6.20	—	6.18	—	6.18	14.59	13.84
1980	—	13.50	6.92	11.63	—	11.59	—	12.83	23.64	20.93
1985	—	16.74	7.57	15.04	—	14.97	—	16.38	33.29	31.31
1990	—	15.37	7.69	17.94	—	17.86	—	16.03	30.07	28.75
1995	—	16.74	6.80	22.65	5.00	21.59	—	17.75	39.05	37.38
2000	—	20.89	10.46	27.82	9.57	27.77	—	24.82	48.09	45.26
2005	—	29.84	16.40	34.73	13.34	34.68	9.20	30.94	60.67	57.71
2006	—	33.70	18.80	38.14	21.46	37.54	10.60	34.40	68.43	64.98
2007	—	32.84	20.25	42.43	23.52	41.60	11.71	35.42	70.70	67.47
2008	—	42.73	25.13	49.47	29.16	48.77	14.42	45.15	95.24	88.50
2009	—	34.97	17.61	46.22	24.33	45.72	10.83	39.06	70.93	66.67
2010	—	42.79	22.34	57.01	26.10	56.99	12.78	48.04	82.36	77.70
2011	—	52.75	27.64	52.79	31.33	52.77	15.36	49.06	101.64	94.72
2012	—	50.54	28.93	49.01	32.83	49.01	17.11	47.29	109.45	99.03
2013	—	48.84	28.60	48.59	32.45	48.58	16.76	45.40	108.40	98.86
2014	—	49.54	27.95	55.95	32.29	55.95	16.34	49.50	108.56	99.63
2015	—	40.81	19.60	43.85	—	43.76	11.26	42.05	86.76	82.00
2016	—	37.19	16.34	42.18	—	42.17	9.62	39.83	80.50	75.48
2017	—	39.88	18.66	47.95	—	47.91	10.76	43.58	86.47	81.59
2018	—	45.20	—	49.54	—	49.54	11.90	46.80	95.17	90.31
2019	—	46.37	—	44.27	—	44.27	11.46	45.06	93.97	89.05
2020	—	39.65	17.21	39.72	—	39.70	9.47	R 39.44	88.75	83.93
2021	—	51.19	20.55	49.63	—	49.60	11.37	R 50.07	98.16	R 92.97
2022	—	62.66	31.75	54.29	—	54.26	R 17.58	R 58.06	126.10	R 118.79
2023	—	57.84	29.07	50.84	—	50.81	16.07	54.26	124.25	117.12
	Expenditures in million dollars									
1970	—	—	(s)	3.1	—	3.1	—	3.1	36.0	39.1
1975	—	—	(s)	3.4	—	3.4	—	3.4	82.8	86.1
1980	—	18.4	(s)	8.5	—	8.6	—	27.0	148.5	175.5
1985	—	11.3	(s)	2.6	—	2.6	—	13.9	213.4	227.4
1990	—	9.3	(s)	3.9	—	3.9	—	13.2	238.4	251.6
1995	—	10.1	0.1	3.3	(s)	3.4	—	13.5	347.3	360.7
2000	—	11.7	(s)	20.7	(s)	20.7	—	32.4	453.6	486.0
2005	—	16.0	(s)	20.3	(s)	20.3	0.7	36.9	655.0	691.9
2006	—	18.3	0.4	22.8	(s)	23.2	0.7	42.1	743.0	785.1
2007	—	17.3	0.4	20.4	(s)	20.7	0.8	38.9	772.1	811.0
2008	—	22.2	0.8	49.8	(s)	50.6	1.2	74.0	1,002.6	1,076.6
2009	—	18.5	0.3	42.5	(s)	42.8	1.6	62.9	739.4	802.3
2010	—	22.7	(s)	52.4	(s)	52.4	2.0	77.0	840.1	917.1
2011	—	26.9	(s)	45.1	(s)	45.1	2.3	74.3	1,015.7	1,090.0
2012	—	25.4	(s)	61.4	(s)	61.5	2.1	89.0	1,022.9	1,112.0
2013	—	28.6	(s)	40.7	(s)	40.7	2.7	72.1	964.9	1,037.0
2014	—	27.7	(s)	47.4	(s)	47.4	2.7	77.8	957.1	1,034.9
2015	—	22.9	(s)	22.1	—	22.2	0.1	45.2	781.9	827.1
2016	—	20.8	(s)	29.2	—	29.2	(s)	50.0	717.4	767.4
2017	—	22.2	(s)	27.8	—	27.8	0.1	50.2	775.9	826.1
2018	—	25.7	—	22.6	—	22.6	0.1	48.3	880.2	928.5
2019	—	25.4	—	21.9	—	21.9	0.1	47.4	884.8	932.3
2020	—	22.8	(s)	18.7	—	18.7	0.1	41.6	862.8	904.3
2021	—	29.0	(s)	29.3	—	29.3	0.1	58.4	946.2	R 1,004.7
2022	—	34.4	(s)	31.0	—	31.0	R 0.2	65.5	1,182.6	1,248.1
2023	—	31.7	(s)	24.7	—	24.7	0.1	56.5	1,141.7	1,198.2

[a] Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2023, Hawaii

Year	Primary energy										Electricity [j]	Total energy [g,h,i]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f,g]	Total [g,h,i]		
	Prices in dollars per million Btu											
1970	—	—	1.12	0.89	0.85	3.32	0.42	1.38	—	1.38	9.92	4.93
1975	—	—	2.60	1.85	2.50	5.44	1.59	2.90	—	2.90	16.50	11.42
1980	—	12.70	6.60	3.64	—	10.81	3.86	5.89	—	7.89	26.40	16.60
1985	—	13.34	5.89	9.40	11.07	11.14	4.60	7.40	—	10.86	34.41	25.33
1990	—	11.45	5.57	8.87	7.37	11.71	3.83	4.87	—	6.31	29.77	16.02
1995	—	12.40	5.01	10.03	5.00	11.51	2.93	5.30	—	8.58	35.65	26.31
2000	—	16.51	7.72	12.94	9.57	13.45	4.95	10.25	—	12.85	43.41	34.33
2005	—	24.57	14.40	17.30	13.34	20.73	7.34	15.33	2.23	14.69	55.79	40.69
2006	—	27.98	16.62	19.87	21.46	23.98	8.67	17.71	1.70	15.99	62.79	45.12
2007	—	27.30	17.76	21.57	23.52	24.60	9.89	19.20	2.14	16.60	64.21	47.78
2008	—	37.40	23.71	25.12	29.16	29.48	—	24.59	2.26	20.05	87.11	61.74
2009	—	28.85	14.21	19.24	24.33	22.91	—	17.17	1.45	15.01	64.07	44.03
2010	—	35.14	18.19	20.76	26.10	27.98	—	19.80	1.66	17.58	75.99	51.93
2011	—	43.49	24.53	25.43	31.33	34.45	—	25.19	1.77	22.64	94.88	64.31
2012	—	44.96	25.27	18.73	32.83	36.20	—	21.71	1.59	21.83	102.23	68.83
2013	—	41.67	24.56	19.69	32.45	34.82	—	21.81	1.41	18.71	99.81	63.81
2014	—	42.15	23.16	20.43	32.29	33.69	—	21.76	R 1.69	18.85	100.27	R 62.30
2015	—	31.74	14.64	12.80	—	27.67	—	17.75	1.44	15.24	78.92	47.97
2016	—	25.26	12.37	12.96	—	24.07	—	16.51	0.77	12.99	72.22	42.23
2017	—	28.11	14.79	16.37	—	26.83	—	18.94	R 0.57	15.26	78.47	45.11
2018	—	32.18	18.28	17.81	—	30.74	—	21.54	0.68	17.20	87.63	49.60
2019	—	31.79	17.57	14.17	—	31.20	—	19.39	1.13	16.73	85.67	48.02
2020	—	27.90	12.37	13.39	—	26.54	—	16.94	0.88	13.71	83.26	45.82
2021	—	37.59	18.71	20.58	—	34.63	—	23.83	0.69	19.70	90.50	51.69
2022	—	48.11	28.38	21.84	—	46.14	—	29.93	0.85	25.17	117.76	67.43
2023	—	43.54	23.96	17.65	—	42.17	—	25.94	1.02	22.80	114.38	65.03
	Expenditures in million dollars											
1970	—	—	1.1	1.1	0.4	2.3	0.1	5.1	—	5.1	26.1	31.2
1975	—	—	1.3	1.7	0.6	2.8	0.2	6.5	—	6.5	62.5	69.0
1980	—	21.0	15.3	4.4	—	3.1	0.6	23.4	—	44.3	131.7	176.0
1985	—	26.8	4.5	2.7	0.1	2.8	0.6	10.6	—	37.5	189.3	226.8
1990	—	27.2	14.7	3.2	(s)	3.6	19.9	41.4	—	68.6	228.8	297.4
1995	—	28.6	10.0	2.4	(s)	0.7	1.1	14.3	—	42.9	337.9	380.8
2000	—	30.6	9.8	15.9	(s)	0.8	0.3	26.8	—	57.4	458.0	515.4
2005	—	46.8	32.2	16.7	(s)	1.3	0.1	50.3	3.7	100.9	659.3	760.2
2006	—	53.1	37.8	19.6	(s)	1.5	(s)	59.0	3.4	115.5	747.6	863.1
2007	—	52.0	28.9	18.5	(s)	1.5	(s)	49.0	4.0	105.0	771.2	876.2
2008	—	69.0	30.3	38.9	(s)	1.8	—	71.0	5.7	145.8	1,040.5	1,186.2
2009	—	52.6	22.4	39.9	(s)	1.4	—	63.7	3.6	119.8	740.6	860.4
2010	—	64.9	27.8	42.4	(s)	1.7	—	71.9	4.2	141.0	869.8	1,010.8
2011	—	80.6	42.4	61.6	(s)	2.1	—	106.1	4.2	190.9	1,090.4	1,281.3
2012	—	87.0	38.8	39.9	(s)	2.2	—	80.9	3.5	171.4	1,129.5	1,301.0
2013	—	78.5	R 36.2	45.3	(s)	2.2	—	83.7	4.5	R 166.8	1,114.0	R 1,280.7
2014	—	78.1	R 43.2	51.1	(s)	2.0	—	R 96.4	5.5	R 180.0	1,095.5	1,275.4
2015	—	59.5	19.0	29.7	—	43.2	—	R 92.0	4.6	156.0	854.8	1,010.8
2016	—	59.1	11.2	30.2	—	38.2	—	79.5	2.9	141.5	766.7	908.2
2017	—	67.0	17.5	49.5	—	43.2	—	110.2	2.0	179.3	825.1	R 1,004.4
2018	—	80.5	24.9	50.6	—	50.4	—	125.9	2.6	209.0	906.8	1,115.8
2019	—	78.9	R 32.1	43.7	—	51.3	—	R 127.2	4.0	R 210.1	893.8	R 1,103.9
2020	—	45.9	16.1	37.5	—	43.9	—	97.5	2.9	R 146.4	762.5	R 908.9
2021	—	71.1	25.1	70.9	—	57.8	—	153.8	2.2	R 227.1	859.8	1,086.9
2022	—	101.7	36.3	70.1	—	79.5	—	R 186.0	2.7	290.3	1,140.2	R 1,430.6
2023	—	92.3	32.5	53.9	—	72.8	—	159.2	2.9	254.5	1,092.3	1,346.8

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[g] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[j] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: Expenditure totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2023, Hawaii

	Primary energy													
	Coal				Petroleum						Biomass			
	Coking coal	Steam coal	Total	Natural gas [a]	Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e,f]	Total [f,g,h]	Electricity [i]	Total energy [f,g,h]
Year	Prices in dollars per million Btu													
1970	—	—	—	—	0.74	0.94	3.32	0.42	0.62	0.61	4.06	0.62	4.59	1.60
1975	—	—	—	—	2.22	2.01	5.44	1.92	2.10	2.11	4.06	2.12	9.84	4.95
1980	—	—	—	—	5.49	3.97	10.81	3.82	4.27	4.60	4.06	4.54	18.63	8.61
1985	—	2.30	2.30	—	6.14	10.55	11.14	4.60	4.98	5.25	4.06	4.86	25.08	12.25
1990	—	1.82	1.82	—	5.64	9.88	11.71	3.83	3.96	4.74	1.23	3.93	22.19	10.84
1995	—	1.91	1.91	—	5.34	10.46	11.51	2.93	4.30	5.75	1.19	4.28	27.17	12.17
2000	—	2.40	2.40	9.71	7.75	12.38	13.45	4.95	4.24	6.39	0.85	4.84	34.25	18.63
2005	—	2.10	2.10	15.82	14.98	19.98	20.73	7.34	7.22	13.04	2.18	8.00	46.27	28.20
2006	—	2.06	2.06	17.66	16.87	22.34	23.98	8.67	33.35	17.24	1.65	8.94	52.63	32.70
2007	—	2.67	2.67	17.99	17.74	25.69	24.60	9.89	37.28	20.82	2.08	10.36	53.86	34.20
2008	—	2.96	2.96	25.64	23.78	30.79	29.48	14.32	44.59	25.83	2.20	11.67	76.34	46.63
2009	—	3.00	3.00	18.32	14.24	24.32	22.91	—	16.90	17.10	1.37	11.06	53.17	30.17
2010	—	3.42	3.42	23.17	18.35	22.40	27.98	—	R 18.39	R 19.31	1.57	R 13.27	64.32	R 37.47
2011	—	3.78	3.78	28.44	24.44	27.88	34.45	16.59	R 20.83	R 23.04	1.66	R 15.93	83.24	R 48.40
2012	—	3.59	3.59	29.53	25.49	—	36.20	17.95	R 24.29	R 25.92	1.47	R 15.71	90.33	R 53.67
2013	—	3.80	3.80	27.40	24.92	20.62	34.82	17.22	R 23.70	R 24.52	1.32	R 15.81	87.54	R 49.56
2014	—	3.78	3.78	27.89	23.59	21.56	33.69	—	R 24.03	R 24.96	1.61	R 16.70	88.56	R 51.95
2015	—	3.66	3.66	19.38	14.80	11.93	27.67	8.67	R 20.80	R 20.54	1.44	R 14.17	67.58	R 40.72
2016	—	3.46	3.46	18.08	12.78	12.13	24.07	6.44	R 17.74	R 16.07	0.78	R 10.85	60.65	R 38.02
2017	—	—	—	20.12	15.22	15.50	26.83	8.89	16.84	16.02	2.97	16.01	67.17	45.99
2018	—	—	—	23.51	18.43	16.92	30.74	11.70	19.68	20.05	2.92	20.02	76.50	55.73
2019	—	—	—	24.09	17.30	13.26	31.20	10.93	R 20.26	18.54	2.92	R 18.55	75.48	52.38
2020	—	—	—	21.58	12.07	12.47	26.54	—	R 20.47	R 18.97	2.92	18.91	71.66	53.96
2021	—	—	—	27.34	18.22	19.59	34.63	12.84	R 19.20	R 19.29	2.92	R 19.32	79.48	53.58
2022	—	—	—	37.75	28.32	20.79	46.14	21.44	R 27.25	R 28.55	R 2.98	R 28.57	107.60	R 73.87
2023	—	—	—	31.02	24.11	16.56	42.17	19.40	27.41	26.84	2.98	26.81	103.39	71.03
	Expenditures in million dollars													
1970	—	—	—	—	2.8	1.2	0.9	3.5	1.9	10.2	0.1	10.4	25.3	35.7
1975	—	—	—	—	7.3	2.4	1.5	11.7	6.6	29.4	0.3	29.7	80.1	109.8
1980	—	—	—	—	43.0	11.3	2.8	29.4	9.9	96.3	10.0	106.3	176.7	283.0
1985	—	2.6	2.6	—	16.3	0.2	6.1	36.0	12.0	70.5	11.7	84.8	252.0	336.8
1990	—	1.3	1.3	—	23.7	0.4	8.2	28.5	10.5	71.3	4.9	77.4	265.7	343.1
1995	—	7.9	7.9	—	16.8	27.5	14.7	14.5	13.2	86.7	4.8	99.4	332.5	431.9
2000	—	5.1	5.1	4.9	21.1	1.6	11.2	4.9	17.7	56.6	2.3	68.9	429.5	498.3
2005	—	3.0	3.0	6.5	44.1	(s)	14.3	3.5	10.3	72.2	8.6	90.2	583.5	673.7
2006	—	3.4	3.4	7.4	44.2	1.8	17.6	7.3	5.9	76.8	6.7	94.3	661.6	755.9
2007	—	4.8	4.8	8.3	45.7	2.1	30.8	—	6.3	85.0	8.1	106.2	670.0	776.3
2008	—	6.8	6.8	10.1	47.1	0.4	37.2	4.3	6.8	95.8	8.8	121.5	935.2	1,056.7
2009	—	6.1	6.1	5.8	33.0	2.1	27.2	—	78.7	141.1	5.1	158.0	631.7	789.7
2010	—	4.8	4.8	7.1	34.1	3.6	20.3	—	R 99.7	R 157.7	5.2	R 174.7	763.4	R 938.2
2011	—	4.9	4.9	9.2	47.5	4.3	25.7	3.0	R 102.4	R 182.9	5.2	R 202.2	984.4	R 1,186.6
2012	—	4.1	4.1	9.4	54.7	—	25.7	2.8	R 76.8	R 160.0	5.5	R 179.1	1,066.5	R 1,245.6
2013	—	5.2	5.2	10.7	45.4	0.2	24.3	9.0	R 118.3	R 197.1	5.3	R 218.3	1,074.7	R 1,293.0
2014	—	5.2	5.2	10.7	52.5	0.4	29.1	—	R 113.4	R 195.4	5.5	R 216.8	1,106.8	R 1,323.6
2015	—	4.2	4.2	8.4	26.5	0.3	39.8	0.6	R 93.4	R 160.6	4.5	R 177.7	838.2	R 1,016.0
2016	—	0.9	0.9	1.5	11.1	0.4	34.2	8.9	R 53.4	R 108.0	2.6	R 113.0	758.5	R 871.6
2017	—	—	—	1.7	26.4	3.4	38.4	20.4	47.0	135.5	0.1	137.3	815.2	952.5
2018	—	—	—	2.0	26.7	4.3	45.4	16.5	45.5	138.4	0.1	140.5	923.1	1,063.6
2019	—	—	—	2.2	37.2	1.4	46.2	27.2	40.4	152.4	0.1	R 154.7	921.8	1,076.5
2020	—	—	—	1.6	23.8	1.1	39.7	—	38.7	R 103.3	0.1	105.0	787.4	892.4
2021	—	—	—	2.6	29.6	2.8	46.6	37.4	R 44.6	R 161.0	0.1	R 163.7	890.5	R 1,054.3
2022	—	—	—	R 3.1	46.5	3.1	67.4	63.9	R 63.5	R 244.3	0.1	R 247.5	1,252.2	R 1,499.7
2023	—	—	—	2.2	38.6	2.4	62.6	48.0	73.2	224.9	0.1	227.2	1,197.0	1,424.2

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[i] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.
Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET6. Transportation sector energy price and expenditure estimates, selected years, 1970-2023, Hawaii

Year	Primary energy											Electricity [g]	Total energy [f]
			Petroleum										
	Coal	Natural gas[a]	Aviation gasoline	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Lubricants	Motor gasoline [e]	Residual fuel oil	Total	Total [f]		
	Prices in dollars per million Btu												
1970	—	—	2.17	1.37	0.89	0.73	5.08	3.32	0.37	1.34	1.34	—	1.34
1975	—	—	3.45	2.63	1.85	2.04	7.48	5.44	1.37	2.96	2.96	—	2.96
1980	—	—	9.02	7.39	3.64	6.21	14.36	10.81	3.27	7.40	7.40	—	7.40
1985	—	—	9.99	8.53	10.24	6.21	18.18	11.14	4.65	7.81	7.81	—	7.81
1990	—	—	9.32	9.69	9.93	5.99	20.61	11.71	3.51	7.93	7.93	—	7.93
1995	—	—	8.36	10.28	12.17	4.44	21.75	11.51	3.00	7.46	7.46	—	7.46
2000	—	—	10.87	12.00	—	6.98	23.20	13.45	4.78	9.63	9.63	—	9.63
2005	—	8.49	18.56	19.64	19.80	12.93	35.22	20.73	6.89	16.03	16.03	—	16.03
2006	—	7.57	22.31	22.28	21.60	15.10	43.88	23.98	9.09	18.35	18.35	—	18.35
2007	—	—	23.70	22.05	23.59	16.22	47.16	24.60	11.25	19.12	19.12	—	19.12
2008	—	—	27.23	29.25	28.39	22.40	55.12	29.48	15.59	25.74	25.74	—	25.74
2009	—	—	20.32	19.65	21.57	12.66	56.07	22.91	9.55	17.71	17.71	—	17.71
2010	—	—	25.19	24.99	24.66	16.39	58.80	27.98	12.19	21.31	21.31	—	21.31
2011	—	—	31.64	33.77	29.30	22.67	69.54	34.45	16.20	27.99	27.99	—	27.99
2012	—	—	33.04	35.58	21.19	22.94	72.11	36.20	17.41	R 28.69	R 28.69	—	R 28.69
2013	—	41.67	32.71	35.69	22.35	22.60	69.42	34.82	16.89	R 27.89	R 27.89	—	R 27.89
2014	—	—	33.16	35.32	23.24	21.04	69.44	33.69	16.93	R 26.14	R 26.14	—	R 26.14
2015	—	—	24.86	32.61	14.02	12.33	67.28	27.67	9.15	R 18.81	R 18.81	—	R 18.81
2016	—	—	21.62	29.88	14.21	10.35	65.78	24.07	6.12	R 16.31	R 16.31	—	R 16.31
2017	—	—	24.13	29.48	18.71	12.10	67.25	26.83	8.71	R 17.87	R 17.87	—	R 17.87
2018	—	—	27.04	30.28	19.96	15.79	72.37	30.74	11.50	R 21.48	R 21.48	—	R 21.48
2019	—	—	25.57	30.94	17.40	14.76	74.92	31.20	10.46	R 20.72	R 20.72	—	R 20.72
2020	—	—	22.34	29.74	16.26	9.75	75.34	26.54	7.58	R 18.22	R 18.22	—	R 18.22
2021	—	—	28.86	31.61	—	14.44	81.25	34.63	11.47	R 22.43	R 22.43	—	R 22.43
2022	—	—	36.02	41.87	—	25.31	97.37	46.14	20.56	R 32.82	R 32.82	—	R 32.82
2023	—	—	32.62	42.38	—	20.50	105.48	42.17	16.55	28.51	28.51	—	28.51
	Expenditures in million dollars												
1970	—	—	1.5	5.7	0.1	58.4	2.1	96.0	4.1	167.9	167.9	—	167.9
1975	—	—	2.0	12.7	0.2	170.3	3.4	189.2	8.7	386.6	386.6	—	386.6
1980	—	—	9.1	143.5	0.4	492.4	6.5	404.9	29.7	1,086.3	1,086.3	—	1,086.3
1985	—	—	7.8	158.3	0.2	462.1	7.5	435.5	44.6	1,116.0	1,116.0	—	1,116.0
1990	—	—	12.8	197.5	0.5	425.3	9.5	521.5	58.7	1,225.8	1,225.8	—	1,225.8
1995	—	—	9.2	160.5	0.4	250.5	9.6	548.6	50.5	1,029.2	1,029.2	—	1,029.2
2000	—	—	2.5	113.7	—	373.4	10.9	638.0	66.9	1,205.3	1,205.3	—	1,205.3
2005	—	(s)	4.2	437.2	1.1	1,199.9	14.0	1,166.1	48.6	2,871.1	2,871.1	—	2,871.1
2006	—	(s)	4.6	437.9	1.4	1,313.2	17.0	1,415.1	135.8	3,325.1	3,325.1	—	3,325.1
2007	—	—	4.9	796.5	1.1	1,173.3	18.8	1,403.2	315.8	3,713.7	3,713.7	—	3,713.7
2008	—	—	3.8	461.3	0.4	1,359.2	20.5	1,567.9	95.8	3,508.9	3,508.9	—	3,508.9
2009	—	—	3.0	354.5	0.5	667.7	18.7	1,234.9	72.9	R 2,352.3	R 2,352.3	—	R 2,352.3
2010	—	—	4.7	R 580.1	0.3	1,248.2	27.3	1,394.9	82.4	3,337.8	3,337.8	—	3,337.8
2011	—	—	5.6	R 664.1	0.4	1,790.5	35.5	1,915.8	102.0	R 4,513.9	R 4,513.9	—	R 4,513.9
2012	—	—	5.1	R 656.4	0.3	1,914.2	32.7	1,911.8	99.2	R 4,619.8	R 4,619.8	—	R 4,619.8
2013	—	0.4	4.4	R 608.7	0.3	1,980.4	33.1	1,866.8	93.4	R 4,587.1	R 4,587.5	—	R 4,587.5
2014	—	—	4.6	R 300.2	0.3	1,877.1	29.5	1,814.9	90.2	R 4,116.9	R 4,116.9	—	R 4,116.9
2015	—	—	1.2	R 354.5	0.2	1,137.7	30.5	1,463.4	40.2	R 3,027.8	R 3,027.8	—	R 3,027.8
2016	—	—	0.7	R 353.8	0.2	946.7	26.5	1,293.1	31.2	R 2,652.3	R 2,652.3	—	R 2,652.3
2017	—	—	1.2	R 335.2	(s)	1,179.3	25.2	1,431.8	62.8	R 3,035.6	R 3,035.6	—	R 3,035.6
2018	—	—	2.9	R 432.9	(s)	R 1,562.4	26.1	1,606.3	74.1	R 3,704.8	R 3,704.8	—	R 3,704.8
2019	—	—	4.0	R 352.1	(s)	R 1,492.4	27.8	1,639.7	86.8	R 3,602.8	R 3,602.8	—	R 3,602.8
2020	—	—	2.7	R 348.2	(s)	R 501.2	21.2	1,070.1	36.3	R 1,979.6	R 1,979.6	—	R 1,979.6
2021	—	—	1.6	R 378.5	—	R 1,103.7	26.1	1,602.1	86.1	R 3,198.2	R 3,198.2	—	R 3,198.2
2022	—	—	2.0	R 543.0	—	R 2,235.8	32.7	2,144.8	158.1	R 5,116.4	R 5,116.4	—	R 5,116.4
2023	—	—	1.7	533.0	—	1,953.3	26.4	1,991.1	105.6	4,611.1	4,611.1	—	4,611.1

[a] Transportation use of natural gas as vehicle fuel only.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET7. Electric power sector price and expenditure estimates, selected years, 1970-2023, Hawaii

Year	Coal	Natural gas [a]	Petroleum: Distillate fuel oil	Petroleum: Petroleum coke	Petroleum: Residual fuel oil	Petroleum: Total	Nuclear fuel	Biomass: Wood and waste [b]	Electricity imports [c]	Total energy [d]
	Prices in dollars per million Btu									
1970	—	—	0.43	—	0.40	0.40	—	0.65	—	0.41
1975	—	—	1.71	—	1.57	1.58	—	0.92	—	1.58
1980	—	—	5.19	—	3.87	3.97	—	—	—	3.97
1985	—	—	6.40	—	4.86	4.95	—	0.79	—	4.94
1990	1.49	—	5.79	—	4.15	4.33	—	—	—	4.01
1995	1.36	—	4.55	—	2.98	3.23	—	0.70	—	2.78
2000	1.36	—	8.11	—	5.04	5.62	—	0.67	—	4.74
2005	1.43	—	10.26	—	8.69	8.96	—	—	—	7.84
2006	1.68	—	15.42	—	9.89	10.80	—	2.32	—	9.50
2007	1.85	—	16.19	—	10.94	11.77	—	—	—	10.26
2008	2.19	—	22.86	—	16.21	17.24	—	—	—	14.81
2009	2.24	—	13.73	—	9.43	10.13	—	2.20	—	8.88
2010	2.22	—	17.45	—	13.49	14.15	—	2.40	—	12.15
2011	1.66	—	23.57	—	19.52	20.20	—	2.44	—	17.14
2012	1.89	—	24.87	—	21.39	21.99	—	2.21	—	18.38
2013	1.96	—	23.77	—	20.18	20.79	—	2.26	—	17.57
2014	2.49	—	22.98	—	19.23	19.89	—	2.73	—	16.46
2015	3.27	—	14.21	—	10.04	10.80	—	2.62	—	9.39
2016	3.08	—	11.43	—	7.92	8.55	—	2.54	—	7.40
2017	3.08	—	13.71	—	10.46	11.06	—	2.40	—	9.41
2018	3.28	—	16.98	—	13.27	13.98	—	2.22	—	11.87
2019	3.51	—	15.83	—	12.29	13.01	—	2.33	—	11.19
2020	3.46	—	11.22	—	9.00	9.46	—	1.80	—	8.30
2021	3.37	—	15.43	—	13.59	R 13.82	—	2.39	—	R 11.88
2022	3.85	—	25.71	—	23.85	R 24.03	—	2.69	—	R 21.65
2023	—	—	22.17	—	19.63	19.87	—	2.93	—	19.49
	Expenditures in million dollars									
1970	—	—	0.2	—	17.0	17.2	—	0.2	—	17.4
1975	—	—	4.3	—	87.9	92.2	—	0.2	—	92.4
1980	—	—	26.8	—	248.9	275.8	—	—	—	275.8
1985	—	—	28.0	—	314.2	342.3	—	0.2	—	342.5
1990	(s)	—	61.1	—	361.4	422.5	—	—	—	422.5
1995	21.5	—	58.5	—	200.6	259.2	—	4.6	—	285.3
2000	21.1	—	130.9	—	343.5	474.4	—	3.6	—	499.0
2005	21.6	—	154.3	—	617.3	771.6	—	—	—	793.2
2006	24.3	—	219.5	—	715.2	934.7	—	(s)	—	959.0
2007	28.3	—	216.6	—	786.1	1,002.7	—	—	—	1,031.0
2008	34.6	—	290.6	—	1,122.0	1,412.6	—	—	—	1,447.2
2009	33.7	—	178.5	—	634.6	813.1	—	0.1	—	846.9
2010	34.9	—	226.3	—	879.0	1,105.3	—	0.1	—	1,140.3
2011	24.5	—	307.9	—	1,258.3	1,566.2	—	1.4	—	1,592.1
2012	29.2	—	313.2	—	1,276.5	1,589.7	—	0.9	—	1,619.8
2013	27.3	—	284.8	—	1,169.1	1,453.9	—	1.2	—	1,482.4
2014	39.5	—	272.2	—	1,059.7	1,331.9	—	1.7	—	1,373.1
2015	47.4	—	174.7	—	551.8	726.6	—	2.2	—	776.2
2016	49.8	—	134.1	—	421.2	555.3	—	2.7	—	607.8
2017	46.0	—	165.3	—	551.9	717.2	—	4.2	—	767.4
2018	47.1	—	210.6	—	700.5	911.2	—	3.2	—	961.5
2019	49.8	—	211.3	—	647.5	858.8	—	3.0	—	911.6
2020	45.9	—	141.7	—	439.3	581.0	—	1.9	—	628.8
2021	42.4	—	193.7	—	658.8	852.4	—	3.3	—	898.1
2022	29.5	—	353.4	—	1,270.8	1,624.3	—	3.4	—	1,657.2
2023	—	—	304.1	—	1,131.8	1,435.9	—	4.8	—	1,440.7

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[c] Electricity imported from Canada and Mexico.
[d] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET1. Primary energy, electricity, and total energy price and expenditure estimates, selected years, 1970-2023, Idaho

Year	Primary energy														Electric power sector [i,k,l]	Electricity [m]	Total energy [h,i,j]
	Coal			Natural gas [a]	Petroleum							Nuclear fuel	Biomass				
	Coking coal	Steam coal	Total		Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total		Wood and waste [g,h]	Total [h,i,j,k]			
	Prices in dollars per million Btu																
1970	—	0.65	0.65	0.66	1.01	2.27	0.76	2.81	0.34	1.15	1.92	—	1.42	1.49	0.35	2.95	1.76
1975	—	0.96	0.96	1.43	2.55	3.76	2.12	4.81	2.01	2.73	3.63	—	1.48	2.77	1.89	4.11	3.00
1980	—	1.74	1.74	3.87	6.54	6.43	6.59	9.79	4.45	5.89	8.11	—	1.64	6.44	3.87	7.39	6.64
1985	—	1.85	1.85	5.07	7.73	9.88	6.68	9.31	3.67	7.56	8.56	—	1.74	7.09	8.78	10.66	8.03
1990	—	1.77	1.77	3.42	7.81	10.28	6.07	9.15	2.51	4.85	8.18	—	1.17	6.21	2.33	11.14	7.46
1995	—	1.79	1.79	4.19	7.68	8.60	5.15	9.27	2.31	4.76	8.03	—	1.28	6.18	0.75	11.98	7.52
2000	—	1.70	1.70	4.86	10.41	12.33	7.82	12.75	2.68	4.46	10.76	—	1.65	8.08	5.42	12.23	9.04
2005	—	1.80	1.80	8.66	17.62	18.82	13.84	18.51	5.36	7.68	17.07	—	3.73	12.91	6.27	15.02	13.65
2006	—	1.99	1.99	10.07	19.85	21.31	16.07	20.82	5.03	8.25	19.13	—	3.84	14.85	5.68	14.43	15.07
2007	—	2.06	2.06	9.53	21.03	23.96	16.42	22.89	8.79	9.76	21.12	—	4.01	15.69	5.98	14.85	15.91
2008	—	2.50	2.50	9.68	27.37	27.86	23.26	26.66	—	9.21	25.19	—	5.07	17.98	7.81	16.69	18.09
2009	—	2.55	2.55	8.92	17.32	22.66	13.31	19.20	7.51	18.29	18.51	—	3.54	13.94	6.00	19.07	15.56
2010	—	2.35	2.35	7.40	21.55	23.88	16.87	23.70	9.11	R 20.55	R 22.44	—	3.59	R 16.02	5.80	19.18	17.18
2011	—	2.53	2.53	7.50	27.89	27.78	23.24	29.19	14.42	R 23.40	R 28.10	—	3.93	R 19.46	6.05	18.87	R 19.73
2012	—	3.04	3.04	6.43	28.55	23.29	24.50	29.93	15.71	R 24.67	R 28.74	—	3.74	R 19.30	3.95	20.30	20.28
2013	—	2.73	2.73	R 6.15	27.93	24.30	23.73	29.35	—	R 25.23	R 28.23	—	3.92	R 18.14	4.11	22.19	20.24
2014	—	3.26	3.26	R 6.78	27.53	27.55	21.11	28.62	—	R 25.76	R 27.72	—	R 4.03	R 18.42	4.46	23.23	R 20.65
2015	—	3.18	3.18	5.76	R 18.83	18.36	12.52	20.93	—	R 21.56	R 19.78	—	R 4.51	R 13.61	2.81	23.70	R 16.88
2016	—	2.24	2.24	5.53	16.07	17.42	10.08	18.67	6.12	R 21.63	R 17.46	—	R 4.48	R 12.42	2.86	23.70	R 15.49
2017	—	2.25	2.25	5.29	R 19.27	21.88	12.47	21.09	—	21.28	20.10	—	R 4.82	13.74	3.19	24.20	16.63
2018	—	2.34	2.34	4.91	23.05	22.37	16.10	24.20	9.92	24.25	23.32	—	R 5.00	15.53	3.43	23.95	18.15
2019	—	2.51	2.51	4.64	21.58	19.86	15.39	23.10	—	R 25.41	22.17	—	R 5.19	14.41	3.91	23.12	17.13
2020	—	2.24	2.24	4.42	17.36	16.46	10.84	19.83	—	R 23.57	18.62	—	R 3.04	R 12.25	2.58	23.40	R 15.53
2021	—	2.31	2.31	5.00	24.04	23.92	15.58	27.75	11.33	R 26.11	R 25.62	—	R 3.85	R 16.47	4.15	23.94	R 19.34
2022	—	7.20	7.20	R 7.39	R 35.58	26.86	27.61	34.59	18.82	R 35.46	34.31	—	R 5.17	R 22.20	R 9.89	24.94	R 23.86
2023	—	4.38	4.38	7.53	30.78	24.46	22.04	31.39	16.78	31.00	30.46	—	4.92	19.68	6.42	26.61	22.77
	Expenditures in million dollars																
1970	—	5.2	5.2	29.5	32.9	9.1	3.9	142.8	0.6	12.4	201.7	—	6.2	242.5	(s)	105.8	348.3
1975	—	12.9	12.9	84.6	112.3	16.7	11.0	285.0	8.6	22.5	456.2	—	6.0	559.7	-0.1	175.4	735.0
1980	—	16.8	16.8	182.6	215.6	23.3	44.9	570.0	17.1	42.5	913.5	—	7.3	1,120.1	-0.2	345.9	1,465.8
1985	—	16.4	16.4	192.9	238.1	28.1	40.7	521.7	2.0	42.6	873.3	—	9.3	1,095.0	-2.0	596.4	1,689.5
1990	—	17.9	17.9	142.3	321.9	23.3	38.1	550.4	0.7	47.9	982.3	—	17.9	1,168.7	-3.6	684.5	1,849.6
1995	—	16.0	16.0	248.0	338.5	24.1	44.3	651.9	0.1	70.9	1,129.9	—	26.8	1,420.8	-1.0	802.2	2,222.0
2000	—	23.3	23.3	332.3	547.8	95.2	39.0	1,020.8	(s)	97.6	1,800.5	—	36.6	2,200.0	-15.9	953.2	3,137.3
2005	—	20.3	20.3	627.7	1,045.7	107.2	64.2	1,422.8	7.4	99.6	2,747.0	—	96.3	3,496.3	-84.5	1,119.6	4,531.4
2006	—	16.4	16.4	727.4	1,148.2	126.1	89.4	1,692.6	4.6	123.3	3,184.1	—	90.8	4,021.0	-65.3	1,120.6	5,076.3
2007	—	21.1	21.1	725.7	1,218.0	149.0	84.1	1,903.5	2.0	114.0	3,470.6	—	96.9	4,320.5	-87.0	1,203.6	5,437.1
2008	—	21.5	21.5	808.8	1,361.2	168.6	111.1	2,125.6	—	133.6	3,900.0	—	114.2	4,848.0	-110.9	1,360.9	6,097.9
2009	—	21.6	21.6	712.4	R 844.5	122.2	43.5	1,551.1	0.4	172.3	R 2,733.9	—	60.2	R 3,528.7	-86.0	1,480.5	R 4,923.2
2010	—	20.1	20.1	571.8	R 1,266.0	126.5	119.4	1,979.9	1.2	R 206.3	R 3,699.2	—	80.1	R 4,371.4	-83.1	1,491.9	R 5,780.2
2011	—	19.9	19.9	589.7	R 1,687.0	163.0	139.5	2,371.1	0.6	R 220.4	R 4,581.6	—	84.6	R 5,277.0	-62.0	1,498.2	R 6,713.2
2012	—	15.8	15.8	543.6	R 1,586.9	123.0	147.3	2,508.9	0.3	R 215.6	R 4,582.0	—	79.6	R 5,222.1	-64.0	1,642.0	R 6,800.1
2013	—	21.8	21.8	R 620.7	R 1,609.5	159.2	149.7	2,503.9	—	R 205.6	R 4,627.9	—	88.2	R 5,359.3	-117.7	1,832.6	R 7,074.1
2014	—	24.4	24.4	R 608.1	R 1,680.6	145.8	157.6	2,484.4	—	R 214.3	R 4,682.7	—	R 116.2	R 5,432.1	-124.7	1,841.5	R 7,148.9
2015	—	13.5	13.5	R 591.2	R 1,289.0	88.6	91.8	1,916.6	—	R 244.7	R 3,630.7	—	R 139.3	R 4,375.3	-102.6	1,864.7	R 6,137.5
2016	—	5.4	5.4	R 577.7	R 1,139.2	91.4	66.9	1,771.0	0.1	R 171.8	R 3,240.4	—	R 108.1	R 3,932.0	-74.5	1,864.6	R 5,722.1
2017	—	5.9	5.9	R 580.6	R 1,315.6	132.9	95.4	2,041.4	—	156.0	R 3,741.3	—	R 121.7	R 4,450.2	-76.0	1,964.8	R 6,339.0
2018	—	6.6	6.6	R 534.6	R 1,765.2	136.9	134.4	2,214.0	0.3	173.8	R 4,424.6	—	R 134.3	R 5,101.3	-91.2	1,940.9	R 6,951.0
2019	—	5.9	5.9	R 582.3	R 1,602.6	146.4	R 119.9	2,222.6	—	179.4	R 4,270.9	—	R 135.2	R 4,994.3	-133.6	1,892.0	R 6,752.7
2020	—	6.0	6.0	R 541.3	R 1,261.9	118.0	56.5	1,841.4	—	R 168.6	R 3,446.5	—	R 63.2	R 4,057.0	-85.6	1,953.4	R 5,924.8
2021	—	7.1	7.1	R 644.3	R 1,786.1	169.1	128.6	2,730.5	0.1	R 198.5	R 5,012.9	—	R 82.0	R 5,746.3	-165.4	2,065.2	R 7,646.1
2022	—	13.5	13.5	R 992.6	R 2,628.9	214.1	R 285.8	3,381.7	0.2	R 259.6	R 6,770.4	—	R 113.1	R 7,889.6	R -347.7	2,229.7	R 9,771.6
2023	—	5.0	5.0	1,105.2	2,223.0	191.7	192.3	3,152.5	0.2	218.1	5,977.7	—	104.6	7,192.5	-311.3	2,331.3	9,212.4

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[l] Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
[m] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET2. Total end-use energy price and expenditure estimates, selected years, 1970-2023, Idaho

Year	Primary energy											Electricity [k]	Total energy [h,i,j]
			Petroleum							Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g,h]	Total [h,i,j]		
	Prices in dollars per million Btu												
1970	0.65	0.66	1.01	2.27	0.76	2.81	0.34	1.15	1.92	1.42	1.49	2.95	1.76
1975	0.96	1.43	2.55	3.76	2.12	4.81	2.01	2.73	3.64	1.48	2.77	4.11	3.00
1980	1.74	3.87	6.54	6.43	6.59	9.79	4.45	5.89	8.11	1.64	6.44	7.39	6.64
1985	1.85	5.07	7.73	9.88	6.68	9.31	3.67	7.56	8.56	1.74	7.08	10.66	8.03
1990	1.77	3.42	7.81	10.28	6.07	9.15	2.51	4.85	8.18	1.23	6.25	11.14	7.46
1995	1.79	4.19	7.69	8.60	5.15	9.27	2.31	4.76	8.03	1.32	6.22	11.98	7.52
2000	1.70	4.87	10.41	12.33	7.82	12.75	2.68	4.46	10.76	1.68	8.11	12.23	9.04
2005	1.80	9.07	17.62	18.82	13.84	18.51	5.36	7.68	17.07	3.82	13.26	15.02	13.65
2006	1.99	10.71	19.85	21.31	16.07	20.82	5.03	8.25	19.13	3.94	15.26	14.43	15.07
2007	2.06	10.23	21.03	23.96	16.42	22.89	8.79	9.76	21.12	4.11	16.24	14.85	15.91
2008	2.50	9.96	27.37	27.86	23.26	26.66	—	9.21	25.19	5.21	18.54	16.69	18.09
2009	2.55	9.39	17.32	22.66	13.31	19.20	7.51	18.29	18.51	3.67	14.42	19.07	15.56
2010	2.35	7.63	21.55	23.88	16.87	23.70	9.11	R 20.55	R 22.44	3.69	16.58	19.18	17.18
2011	2.53	7.59	27.89	27.78	23.24	29.19	14.42	R 23.40	R 28.10	4.06	R 19.99	18.87	R 19.73
2012	3.04	6.87	28.55	23.29	24.50	29.93	15.71	R 24.67	R 28.74	3.93	R 20.28	20.30	20.28
2013	2.73	6.74	27.93	24.30	23.73	29.35	—	R 25.23	R 28.23	4.22	R 19.64	22.19	20.24
2014	3.26	R 7.17	27.53	27.55	21.11	28.62	—	R 25.76	R 27.72	R 4.65	R 19.88	23.23	R 20.65
2015	3.18	R 6.85	R 18.83	18.36	12.52	20.93	—	R 21.56	R 19.78	R 5.21	R 15.00	23.70	R 16.88
2016	2.24	R 6.30	16.07	17.42	10.08	18.67	6.12	R 21.63	R 17.46	R 4.69	R 13.27	23.70	R 15.49
2017	2.25	R 5.78	R 19.27	21.88	12.47	21.09	—	21.28	20.10	R 5.07	14.58	24.20	16.63
2018	2.34	5.31	23.05	22.37	16.10	24.20	9.92	24.25	23.32	R 5.26	16.59	23.95	18.15
2019	2.51	4.86	21.58	19.86	15.39	23.10	—	R 25.41	22.17	R 5.45	15.56	23.12	17.13
2020	2.24	5.02	17.36	16.46	10.84	19.83	—	R 23.57	18.62	R 3.18	R 13.33	23.40	R 15.53
2021	2.31	5.32	24.04	23.92	15.58	27.75	11.33	R 26.11	R 25.62	R 4.00	R 18.06	23.94	R 19.34
2022	7.20	R 6.44	R 35.58	26.86	27.61	34.59	18.82	R 35.46	34.31	R 5.38	R 23.56	24.94	R 23.86
2023	4.38	8.01	30.78	24.46	22.04	31.39	16.78	31.00	30.46	5.06	21.71	26.61	22.77
	Expenditures in million dollars												
1970	5.2	29.5	32.9	9.1	3.9	142.8	0.6	12.4	201.7	6.2	242.5	105.8	348.3
1975	12.9	84.6	112.2	16.7	11.0	285.0	8.6	22.5	456.1	6.0	559.6	175.4	735.0
1980	16.8	182.4	215.6	23.3	44.9	570.0	17.1	42.5	913.5	7.3	1,119.9	345.9	1,465.8
1985	16.4	192.8	238.1	28.1	40.7	521.7	2.0	42.6	873.3	9.3	1,093.0	596.4	1,689.5
1990	17.9	142.3	321.8	23.3	38.1	550.4	0.7	47.9	982.3	17.4	1,165.1	684.5	1,849.6
1995	16.0	248.0	338.4	24.1	44.3	651.9	0.1	70.9	1,129.9	25.9	1,419.8	802.2	2,222.0
2000	23.3	324.3	547.6	95.2	39.0	1,020.8	(s)	97.6	1,800.3	36.2	2,184.1	953.2	3,137.3
2005	20.3	551.7	1,045.7	107.2	64.2	1,422.8	7.4	99.6	2,747.0	92.8	3,411.8	1,119.6	4,531.4
2006	16.4	667.9	1,148.2	126.1	89.4	1,692.6	4.6	123.3	3,184.1	87.3	3,955.7	1,120.6	5,076.3
2007	21.1	648.3	1,218.0	149.0	84.1	1,903.5	2.0	114.0	3,470.6	93.5	4,233.5	1,203.6	5,437.1
2008	21.5	704.7	1,361.2	168.6	111.1	2,125.6	—	133.6	3,900.0	110.8	4,737.1	1,360.9	6,097.9
2009	21.6	630.4	R 844.5	122.2	43.5	1,551.1	0.4	172.3	R 2,733.9	56.8	R 3,442.7	1,480.5	R 4,923.2
2010	20.1	493.1	R 1,266.0	126.5	119.4	1,979.9	1.2	R 206.3	R 3,699.2	76.0	R 4,288.4	1,491.9	R 5,780.2
2011	19.9	533.2	R 1,687.0	163.0	139.5	2,371.1	0.6	R 220.4	R 4,581.6	80.3	R 5,215.0	1,498.2	R 6,713.2
2012	15.8	485.9	R 1,586.9	123.0	147.3	2,508.9	0.3	R 215.6	R 4,582.0	74.4	R 5,158.0	1,642.0	R 6,800.1
2013	21.8	R 511.4	R 1,609.5	159.2	149.7	2,503.9	—	R 205.6	R 4,627.9	80.4	R 5,241.5	1,832.6	R 7,074.1
2014	24.4	R 509.5	R 1,680.6	145.8	157.6	2,484.4	—	R 214.3	R 4,682.7	R 90.8	R 5,307.4	1,841.5	R 7,148.9
2015	13.5	R 511.1	R 1,289.0	88.6	91.8	1,916.6	—	R 244.7	R 3,630.7	R 117.5	R 4,272.8	1,864.7	R 6,137.5
2016	5.4	R 509.6	R 1,139.1	91.4	66.9	1,771.0	0.1	R 171.8	R 3,240.4	R 102.1	R 3,857.5	1,864.6	R 5,722.1
2017	5.9	R 510.9	R 1,315.6	132.9	95.4	2,041.4	—	156.0	R 3,741.3	R 116.0	R 4,374.2	1,964.8	R 6,339.0
2018	6.6	R 449.6	R 1,765.2	136.9	134.4	2,214.0	0.3	173.8	R 4,424.6	R 129.3	R 5,010.1	1,940.9	R 6,951.0
2019	5.9	R 453.8	R 1,602.6	146.4	R 119.9	2,222.6	—	179.4	R 4,270.9	R 130.1	R 4,860.7	1,892.0	R 6,752.7
2020	6.0	R 459.6	R 1,261.9	118.0	56.5	1,841.4	—	R 168.6	R 3,446.5	R 59.4	R 3,971.4	1,953.4	R 5,924.8
2021	7.1	R 483.6	R 1,786.1	169.1	128.6	2,730.5	0.1	R 198.5	R 5,012.9	R 77.3	R 5,580.9	2,065.2	R 7,646.1
2022	13.5	R 649.6	R 2,628.9	214.1	R 285.8	3,381.7	0.2	R 259.6	R 6,770.4	R 108.4	R 7,541.9	2,229.7	R 9,771.6
2023	5.0	797.9	2,223.0	191.7	192.3	3,152.5	0.2	218.1	5,977.7	100.6	6,881.2	2,331.3	9,212.4

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. · Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2023, Idaho

Year	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
	Prices in dollars per million Btu									
1970	0.99	1.31	1.40	2.78	—	1.85	0.72	1.47	4.81	2.49
1975	1.78	2.07	2.82	4.17	—	3.22	1.43	2.42	5.27	3.41
1980	2.56	4.73	6.60	7.85	—	6.94	3.66	5.29	8.54	7.15
1985	1.97	6.57	7.29	9.55	8.62	7.85	4.14	6.82	12.60	10.27
1990	1.55	4.91	7.37	11.73	5.98	8.45	4.75	5.89	14.28	10.72
1995	1.37	5.42	6.36	9.46	6.16	7.34	3.86	5.73	15.61	11.03
2000	1.76	6.13	8.87	12.38	9.12	11.22	5.88	7.42	15.79	11.29
2005	1.89	10.06	16.17	19.15	15.31	18.05	9.20	11.28	18.43	14.51
2006	2.38	11.71	18.21	21.30	21.35	20.11	10.60	13.06	18.20	15.43
2007	2.54	11.20	20.00	23.70	23.57	22.60	11.71	12.93	18.64	15.60
2008	—	10.81	23.71	28.04	29.23	26.90	14.42	13.36	20.49	16.50
2009	—	10.30	15.78	22.85	24.39	21.48	10.83	12.06	22.86	17.14
2010	—	8.76	20.94	24.73	26.16	24.03	12.78	11.36	23.40	17.04
2011	—	8.65	25.87	28.30	26.87	27.79	15.36	11.84	23.08	16.98
2012	—	8.13	26.55	25.88	28.16	26.02	17.11	10.98	25.40	17.95
2013	—	7.92	25.90	25.61	27.83	25.65	16.76	11.18	27.33	18.49
2014	—	8.39	24.60	30.32	27.69	R 29.34	16.34	11.73	28.50	19.63
2015	—	8.29	14.68	22.57	16.97	21.08	11.26	10.20	29.10	18.77
2016	—	7.79	13.20	21.51	13.53	19.95	9.62	9.43	29.18	18.23
2017	—	7.31	17.75	25.20	16.92	R 24.19	10.76	9.80	29.43	R 18.14
2018	—	6.83	19.92	26.22	24.44	25.48	11.90	9.70	29.74	18.21
2019	—	6.29	19.19	22.85	22.82	22.59	11.46	9.18	28.98	17.13
2020	—	6.55	15.76	19.93	14.82	19.48	9.47	R 8.33	29.16	R 17.56
2021	—	6.86	18.82	26.27	23.41	25.35	11.37	R 9.77	29.77	R 18.70
2022	—	7.77	29.08	29.26	30.56	29.24	R 17.58	R 11.48	30.40	R 19.48
2023	—	9.45	26.62	27.05	26.52	27.00	16.07	12.50	32.40	20.99
	Expenditures in million dollars									
1970	2.4	10.7	6.8	6.5	—	13.3	0.2	26.7	38.6	65.3
1975	2.3	30.7	16.0	9.8	—	25.8	0.5	59.3	69.5	128.8
1980	1.4	36.8	18.7	8.2	—	26.8	1.2	66.2	143.8	210.0
1985	0.5	53.5	24.1	10.3	0.1	34.5	2.2	90.6	248.5	339.1
1990	0.4	43.2	23.0	12.3	0.2	35.5	4.1	83.2	274.1	357.3
1995	0.2	72.6	16.3	11.7	0.5	28.5	3.4	104.6	329.9	434.5
2000	0.1	120.1	20.4	59.5	0.5	80.5	6.0	206.7	377.5	584.2
2005	(s)	228.8	30.3	62.5	0.5	93.3	31.4	353.5	477.9	831.5
2006	0.1	275.0	39.5	73.2	0.4	113.0	32.1	420.2	500.2	920.5
2007	0.3	268.6	28.7	79.6	0.3	108.6	39.2	416.7	530.3	947.0
2008	—	304.8	31.2	103.6	0.2	135.0	54.1	493.9	597.1	1,090.9
2009	—	269.1	15.6	93.4	0.3	109.2	17.6	395.9	667.2	1,063.1
2010	—	214.6	18.9	96.9	0.2	116.1	22.3	352.9	649.8	1,002.7
2011	—	234.7	27.2	112.9	0.2	140.3	26.0	400.9	660.6	1,061.5
2012	—	197.6	21.8	82.9	0.1	104.8	24.2	326.6	707.2	1,033.8
2013	—	222.2	19.6	124.2	0.1	143.9	30.9	397.0	803.7	1,200.7
2014	—	210.2	18.0	107.2	(s)	R 125.3	30.5	R 366.0	791.1	R 1,157.1
2015	—	201.7	10.5	69.1	(s)	79.6	56.7	338.0	799.7	1,137.7
2016	—	202.6	9.8	69.2	(s)	79.0	45.1	326.7	813.5	1,140.2
2017	—	220.3	11.6	105.8	(s)	117.4	R 57.2	R 395.0	876.4	R 1,271.4
2018	—	195.4	10.2	100.9	0.1	R 111.2	R 70.9	R 377.5	855.2	R 1,232.6
2019	—	200.2	7.5	121.5	0.3	129.3	R 76.3	R 405.8	860.0	R 1,265.9
2020	—	206.4	8.0	85.5	0.1	93.5	R 20.2	R 320.1	892.5	R 1,212.6
2021	—	215.6	13.2	129.7	0.1	143.0	R 25.1	R 383.7	944.6	R 1,328.3
2022	—	286.7	21.9	175.5	0.1	197.5	R 48.9	R 533.1	1,033.6	R 1,566.7
2023	—	337.1	20.7	165.6	0.2	186.5	38.0	561.5	1,082.5	1,644.1

[a] Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2023, Idaho

Year	Primary energy										Electricity [j]	Total energy [g,h,i]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f,g]	Total [g,h,i]		
	Prices in dollars per million Btu											
1970	0.50	0.96	1.21	1.53	0.82	2.81	—	1.37	0.72	1.01	4.10	2.18
1975	0.87	1.47	2.62	3.15	2.59	4.81	—	3.01	1.43	1.67	4.88	2.89
1980	1.70	4.36	6.41	5.47	—	9.79	4.63	5.64	3.66	4.46	8.33	6.42
1985	1.85	5.42	6.22	9.15	8.62	9.31	3.67	7.16	4.14	5.61	12.10	9.10
1990	1.78	4.06	5.69	8.22	5.98	9.15	2.51	6.70	4.75	4.54	12.52	9.11
1995	1.79	4.73	5.25	7.95	6.16	9.27	2.31	5.91	3.86	4.82	13.23	9.59
2000	1.70	5.35	7.85	11.86	9.12	12.75	—	9.64	5.88	6.30	12.40	9.81
2005	1.80	9.36	15.11	17.17	15.31	18.51	—	16.00	9.20	10.50	15.88	13.27
2006	1.99	10.98	17.63	19.92	21.35	20.82	—	18.81	10.60	12.23	15.11	13.73
2007	2.05	10.42	18.55	22.57	23.57	22.89	—	20.52	11.71	11.59	15.07	13.40
2008	2.87	10.04	24.86	25.80	29.23	26.66	—	25.51	14.42	12.42	16.77	14.60
2009	3.29	9.55	14.70	20.19	24.39	19.20	—	16.96	10.83	10.48	19.01	14.90
2010	2.79	8.04	19.60	20.40	26.16	23.70	9.11	19.93	12.78	10.12	19.46	14.89
2011	2.86	7.95	26.19	25.60	26.87	29.19	14.42	26.06	15.36	11.01	18.80	14.84
2012	3.49	7.24	27.35	18.99	28.16	29.93	15.71	24.31	17.11	10.54	20.12	15.35
2013	3.34	7.11	26.27	20.10	27.83	29.35	—	24.55	16.76	9.82	21.59	15.52
2014	3.84	7.56	25.47	21.52	27.69	28.62	—	24.35	R 13.21	10.52	22.79	16.60
2015	—	7.33	16.25	11.15	16.97	20.93	—	16.65	R 10.07	9.43	22.86	R 15.89
2016	—	6.81	12.48	11.02	13.53	18.67	—	R 13.83	R 8.52	R 8.46	22.73	R 15.07
2017	—	6.33	14.05	14.59	16.92	21.09	—	R 16.45	R 9.55	R 8.35	23.40	R 15.14
2018	—	5.79	16.84	16.02	24.44	24.20	—	18.83	R 10.49	R 8.68	23.25	R 15.31
2019	—	5.26	16.42	12.26	22.82	23.10	—	17.21	R 9.18	R 7.97	22.47	R 14.23
2020	—	5.44	14.15	11.44	14.82	19.83	—	14.72	R 6.14	R 7.75	22.71	R 14.23
2021	—	5.78	20.61	18.61	23.41	27.75	—	22.23	R 7.12	R 9.17	23.13	R 15.52
2022	—	6.92	30.70	19.74	30.56	34.59	—	29.47	R 10.23	R 11.42	24.23	R 16.97
2023	—	8.48	24.50	15.39	26.52	31.39	—	24.53	9.34	11.46	25.73	17.75
	Expenditures in million dollars											
1970	1.0	5.9	2.1	1.3	0.5	1.0	—	4.9	(s)	11.8	29.2	41.0
1975	2.6	18.8	5.2	2.7	1.2	2.3	—	11.4	(s)	32.9	58.8	91.7
1980	3.4	26.4	8.1	2.1	—	5.1	14.2	29.6	(s)	59.4	113.0	172.3
1985	1.5	51.2	11.9	3.7	0.2	6.6	0.6	22.8	0.1	75.6	189.6	265.2
1990	1.9	35.6	11.4	3.2	(s)	7.1	0.3	22.1	0.4	60.2	222.6	282.8
1995	1.3	50.5	12.0	3.6	0.1	1.8	0.1	17.6	0.5	69.9	252.0	321.9
2000	0.6	73.5	19.7	21.2	0.1	2.1	—	43.2	1.0	118.3	314.0	432.4
2005	0.4	130.5	29.5	22.9	0.4	1.5	—	54.3	5.0	190.3	304.3	494.5
2006	0.5	156.0	29.2	24.8	0.3	5.6	—	59.9	5.4	221.7	299.7	521.4
2007	1.9	152.3	27.6	29.5	0.1	2.5	—	59.6	6.3	220.1	309.2	529.3
2008	0.6	167.9	32.2	37.3	(s)	9.7	—	79.2	8.2	255.9	346.2	602.1
2009	0.6	153.8	21.3	18.4	0.1	2.6	—	42.3	2.5	199.2	389.5	588.7
2010	0.6	123.4	44.2	19.8	0.1	2.6	0.1	66.8	2.9	193.6	389.4	583.0
2011	0.5	136.4	62.3	25.5	0.1	3.5	0.3	91.7	3.4	231.8	382.9	614.8
2012	0.4	116.4	59.1	27.4	(s)	6.4	0.2	93.1	3.3	213.2	410.3	623.5
2013	0.3	134.8	R 54.6	21.8	(s)	7.5	—	R 84.0	3.7	R 222.7	460.4	R 683.1
2014	0.2	130.6	R 54.0	27.0	(s)	8.0	—	R 88.9	R 3.7	R 223.4	476.5	R 699.9
2015	—	126.8	R 31.7	13.8	(s)	37.2	—	R 82.7	R 7.7	R 217.2	488.5	R 705.7
2016	—	125.3	R 31.2	16.9	(s)	29.7	—	R 77.8	R 7.0	R 210.2	487.1	R 697.2
2017	—	130.9	R 29.9	18.7	(s)	34.1	—	82.6	R 9.2	R 222.8	512.7	R 735.4
2018	—	115.3	R 38.8	24.6	0.1	40.0	—	R 103.5	R 9.3	R 228.0	510.5	R 738.6
2019	—	114.1	R 50.0	18.4	(s)	38.4	—	R 106.9	R 9.8	R 230.8	493.9	R 724.7
2020	—	111.8	R 45.6	23.4	0.1	33.2	—	R 102.3	R 4.3	R 218.4	489.0	R 707.3
2021	—	120.3	45.7	29.6	(s)	47.0	—	122.3	R 5.0	R 247.6	520.9	R 768.5
2022	—	164.4	72.3	28.5	(s)	75.1	—	176.0	R 7.7	R 348.2	565.3	R 913.5
2023	—	198.5	59.5	19.9	0.1	54.4	—	133.9	7.2	339.6	600.7	940.2

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[g] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[j] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: Expenditure totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2023, Idaho

Year	Primary energy												Electricity [i]	Total energy [f,g,h]
	Coal			Natural gas [a]	Petroleum						Biomass	Total [f,g,h]		
	Coking coal	Steam coal	Total		Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e,f]			
	Prices in dollars per million Btu													
1970	—	0.50	0.50	0.42	0.77	1.61	2.81	0.34	0.76	0.96	1.49	0.74	1.84	0.98
1975	—	0.87	0.87	1.11	2.40	3.42	4.81	2.01	2.15	2.60	1.49	1.80	2.70	1.96
1980	—	1.70	1.70	3.58	6.02	5.96	9.79	3.76	4.15	6.04	1.47	4.14	5.44	4.39
1985	—	1.85	1.85	4.32	6.46	10.28	9.31	3.67	5.52	6.84	1.47	4.55	7.69	5.46
1990	—	1.78	1.78	2.65	6.32	9.16	9.15	2.51	3.20	5.56	0.97	3.33	7.68	4.42
1995	—	1.79	1.79	3.56	5.71	7.65	9.27	2.31	3.67	5.09	1.19	3.43	8.23	4.51
2000	—	1.70	1.70	3.92	7.81	12.73	12.75	2.68	3.61	5.83	1.43	3.84	9.12	4.98
2005	—	1.80	1.80	7.97	16.05	19.82	18.51	5.36	5.56	12.44	2.77	7.77	11.45	8.68
2006	—	1.99	1.99	9.60	17.92	22.86	20.82	5.03	5.98	13.13	2.68	8.76	10.57	9.24
2007	—	2.05	2.05	9.17	19.01	25.76	22.89	8.79	6.60	15.22	2.54	8.98	11.35	9.65
2008	—	2.50	2.50	8.96	25.91	30.80	26.66	—	6.62	17.30	2.86	10.09	13.14	10.95
2009	—	2.54	2.54	8.34	15.17	27.11	19.20	7.51	15.41	15.86	2.70	9.18	15.16	10.86
2010	—	2.34	2.34	6.25	19.28	23.73	23.70	9.11	R 16.52	R 18.89	2.73	R 9.35	15.08	R 10.93
2011	—	2.53	2.53	6.25	26.03	27.86	29.19	14.42	R 18.39	R 24.20	2.85	R 11.49	14.95	R 12.45
2012	—	3.03	3.03	5.64	25.74	19.97	29.93	15.71	R 19.53	R 24.13	2.71	R 10.70	16.06	R 12.29
2013	—	2.73	2.73	5.33	25.38	21.31	29.35	—	R 19.76	R 24.11	2.70	R 10.29	17.84	R 12.49
2014	—	3.26	3.26	5.86	24.73	22.99	28.62	—	R 20.22	R 23.84	3.26	R 10.86	18.75	R 13.06
2015	—	3.18	3.18	5.52	15.00	10.62	20.93	—	R 16.83	R 16.23	3.17	R 8.43	19.33	R 11.39
2016	—	2.24	2.24	4.97	11.99	10.47	18.67	6.12	R 14.95	R 13.67	3.07	R 7.05	19.20	R 10.37
2017	—	2.25	2.25	4.25	15.87	14.04	21.09	—	14.26	16.06	2.99	7.13	19.52	10.53
2018	—	2.34	2.34	3.82	19.88	15.46	24.20	9.91	16.91	19.50	2.77	8.07	18.97	11.07
2019	—	2.51	2.51	3.48	16.60	11.69	23.10	—	17.87	17.81	2.72	6.86	17.82	9.93
2020	—	2.24	2.24	3.57	11.67	10.86	19.83	—	R 16.41	14.04	2.20	R 6.12	18.26	9.54
2021	—	2.31	2.31	3.80	18.73	17.99	27.75	11.33	R 18.34	R 19.78	2.88	R 7.94	18.73	R 11.02
2022	—	7.20	7.20	4.93	29.93	19.08	34.59	18.82	R 25.98	R 29.23	3.12	R 11.24	19.67	R 13.64
2023	—	4.38	4.38	6.45	24.26	14.70	31.39	16.78	22.55	24.58	3.31	10.63	21.01	13.52
	Expenditures in million dollars													
1970	—	1.8	1.8	12.8	14.3	1.2	9.2	0.6	6.5	31.8	5.9	52.4	37.9	90.3
1975	—	8.0	8.0	35.0	55.0	3.9	20.2	8.6	13.9	101.7	5.5	150.2	47.1	197.2
1980	—	12.0	12.0	119.2	77.5	12.6	32.9	3.0	23.1	149.0	6.0	286.3	89.1	375.4
1985	—	14.4	14.4	88.1	59.1	11.7	25.0	1.4	24.5	121.7	7.1	231.4	158.3	389.6
1990	—	15.5	15.5	63.4	101.5	5.9	16.9	0.4	28.2	152.9	12.8	244.9	187.8	432.7
1995	—	14.5	14.5	124.9	75.3	7.7	19.3	(s)	50.5	152.8	22.1	314.3	220.3	534.6
2000	—	22.6	22.6	130.5	109.7	13.3	20.5	(s)	75.3	218.8	29.2	401.1	261.7	662.7
2005	—	19.9	19.9	191.7	277.5	19.2	64.8	7.4	65.5	434.4	56.3	702.3	337.4	1,039.8
2006	—	15.8	15.8	236.0	249.2	24.7	78.2	4.6	82.5	439.0	49.8	740.7	320.6	1,061.3
2007	—	18.9	18.9	226.5	253.7	37.4	78.9	2.0	69.6	441.7	47.9	735.0	364.1	1,099.1
2008	—	20.9	20.9	231.3	319.0	22.6	84.0	—	90.2	515.8	48.5	816.5	417.7	1,234.2
2009	—	21.0	21.0	206.9	196.5	8.9	53.7	0.4	129.7	389.2	36.7	653.8	423.9	1,077.6
2010	—	19.5	19.5	154.6	284.7	9.2	70.8	1.1	R 144.9	R 510.6	50.8	R 735.6	452.7	R 1,188.3
2011	—	19.4	19.4	161.5	417.8	23.8	89.7	0.3	R 151.3	R 683.0	51.0	R 914.8	454.7	R 1,369.6
2012	—	15.3	15.3	170.6	350.3	12.4	81.5	0.1	R 149.2	R 593.5	47.0	R 826.5	524.5	R 1,351.0
2013	—	21.5	21.5	153.1	339.1	12.8	86.1	—	R 139.0	R 577.0	45.8	R 797.4	568.5	R 1,365.9
2014	—	24.2	24.2	167.2	375.5	11.2	76.9	—	R 144.4	R 608.0	56.6	R 856.0	573.9	R 1,429.9
2015	—	13.5	13.5	181.1	195.7	5.3	57.5	—	R 170.0	R 428.5	53.1	R 676.3	576.5	R 1,252.7
2016	—	5.4	5.4	180.4	153.1	4.9	54.5	0.1	R 100.2	R 312.9	49.9	R 548.7	564.0	R 1,112.7
2017	—	5.9	5.9	159.2	184.6	8.3	60.6	—	88.2	341.7	49.6	556.4	575.8	1,132.2
2018	—	6.6	6.6	138.3	266.7	11.4	71.0	0.3	101.6	451.0	49.1	645.1	575.2	1,220.3
2019	—	5.9	5.9	139.0	167.0	6.3	66.5	—	105.1	344.9	43.9	533.8	538.0	1,071.8
2020	—	6.0	6.0	140.9	141.1	8.9	57.9	—	R 99.0	R 307.0	34.9	R 488.7	571.9	R 1,060.7
2021	—	7.1	7.1	147.0	226.2	9.7	80.3	0.1	R 118.1	R 434.4	47.2	R 635.7	599.7	R 1,235.4
2022	—	13.5	13.5	197.7	365.4	9.9	108.2	0.2	R 158.8	R 642.6	R 51.8	R 905.6	630.8	R 1,536.4
2023	—	5.0	5.0	261.6	289.0	6.2	94.6	0.2	137.1	527.1	55.4	849.1	648.1	1,497.2

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[i] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.
Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET6. Transportation sector energy price and expenditure estimates, selected years, 1970-2023, Idaho

Year	Primary energy											Electricity [g]	Total energy [f]
			Petroleum										
	Coal	Natural gas[a]	Aviation gasoline	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Lubricants	Motor gasoline [e]	Residual fuel oil	Total	Total [f]		
	Prices in dollars per million Btu												
1970	0.50	—	2.17	1.31	1.53	0.76	5.08	2.81	0.39	2.47	2.47	—	2.47
1975	0.87	—	3.45	2.68	3.15	2.12	7.48	4.81	—	4.25	4.25	—	4.25
1980	—	—	9.02	6.95	5.47	6.59	14.36	9.79	—	8.98	8.98	—	8.98
1985	—	—	9.99	8.70	10.77	6.68	18.18	9.31	—	9.06	9.06	—	9.06
1990	—	—	9.32	9.27	10.33	6.07	20.61	9.15	—	9.07	9.07	—	9.07
1995	—	3.27	8.36	9.03	10.63	5.15	21.75	9.27	—	8.96	8.96	—	8.96
2000	—	4.07	10.87	11.79	14.75	7.82	23.20	12.75	—	12.34	12.34	—	12.34
2005	—	7.30	18.56	18.54	20.24	13.84	35.22	18.51	—	18.44	18.43	—	18.43
2006	—	10.91	22.31	20.69	21.97	16.07	43.88	20.82	—	20.70	20.70	—	20.70
2007	—	11.15	23.70	21.80	24.38	16.42	47.16	22.89	—	22.42	22.41	—	22.41
2008	—	12.16	27.23	28.11	28.89	23.26	55.12	26.66	—	27.13	27.12	—	27.12
2009	—	9.12	20.32	18.31	22.95	13.31	56.07	19.20	—	18.98	18.97	—	18.97
2010	—	7.35	25.19	22.49	26.28	16.87	58.80	23.70	—	23.19	23.18	—	23.18
2011	—	5.01	31.64	28.77	29.22	23.24	69.54	29.19	—	29.05	29.02	—	29.02
2012	—	9.13	33.04	29.64	22.14	24.50	72.11	29.93	—	29.85	29.83	—	29.83
2013	—	R 9.40	32.71	28.87	23.34	23.73	69.42	29.35	—	29.18	29.16	—	29.16
2014	—	R 10.01	33.16	28.66	24.85	21.11	69.44	28.62	—	28.49	28.47	—	28.47
2015	—	R 10.16	24.86	19.92	14.01	12.52	67.28	20.93	—	20.48	20.47	—	20.47
2016	—	R 8.75	21.62	17.23	14.16	10.08	65.78	18.67	—	18.09	R 18.08	—	R 18.08
2017	—	R 9.66	24.13	20.22	18.69	12.47	67.25	21.09	—	20.64	20.64	—	20.64
2018	—	R 9.34	27.04	24.02	19.61	16.10	72.37	24.20	—	23.98	23.97	—	23.97
2019	—	R 9.67	25.57	22.68	15.42	15.39	74.92	23.10	—	22.86	22.86	—	22.86
2020	—	R 9.61	22.34	18.77	14.16	10.84	75.34	19.83	—	19.43	19.43	—	19.43
2021	—	R 9.61	28.86	25.32	23.30	15.58	81.25	27.75	—	26.54	26.53	—	26.53
2022	—	R 10.79	36.02	37.04	23.77	27.61	97.37	34.59	—	R 35.39	35.38	—	35.38
2023	—	12.40	32.62	32.47	18.38	22.04	105.48	31.39	—	31.58	31.57	—	31.57
	Expenditures in million dollars												
1970	(s)	—	1.7	9.7	0.1	3.9	3.7	132.6	(s)	151.6	151.6	—	151.6
1975	(s)	—	2.1	36.0	0.3	11.0	5.4	262.5	—	317.3	317.3	—	317.3
1980	—	—	7.4	111.3	0.5	44.9	12.0	532.0	—	708.1	708.1	—	708.1
1985	—	—	4.0	143.0	2.5	40.7	13.9	490.2	—	694.2	695.4	—	695.4
1990	—	—	1.9	186.0	1.9	38.1	17.7	526.3	—	771.8	776.8	—	776.8
1995	—	0.1	2.0	234.9	1.1	44.3	17.8	630.8	—	930.9	931.0	—	931.0
2000	—	0.2	1.5	397.7	1.2	39.0	20.3	998.2	—	1,457.8	1,458.0	—	1,458.0
2005	—	0.7	7.3	708.4	2.6	64.2	26.0	1,356.5	—	2,164.9	2,165.6	—	2,165.6
2006	—	0.9	8.7	830.3	3.4	89.4	31.5	1,608.8	—	2,572.1	2,573.1	—	2,573.1
2007	—	0.9	9.1	908.0	2.5	84.1	35.0	1,822.1	—	2,860.7	2,861.6	—	2,861.6
2008	—	0.7	5.2	978.8	5.1	111.1	37.9	2,031.9	—	3,170.0	3,170.7	—	3,170.7
2009	—	0.6	7.5	R 611.1	1.6	43.5	34.7	1,494.8	—	R 2,193.2	R 2,193.8	—	R 2,193.8
2010	—	0.5	9.5	R 918.2	0.7	119.4	51.6	1,906.5	—	R 3,005.7	R 3,006.3	—	R 3,006.3
2011	—	0.7	11.2	R 1,179.6	0.8	139.5	57.7	2,277.9	—	R 3,666.7	R 3,667.4	—	R 3,667.4
2012	—	1.2	10.8	R 1,155.8	0.3	147.3	55.5	2,420.9	—	R 3,790.5	R 3,791.8	—	R 3,791.8
2013	—	R 1.3	9.5	R 1,196.2	0.4	149.7	57.0	2,410.3	—	R 3,823.1	R 3,824.4	—	R 3,824.4
2014	—	R 1.5	10.5	R 1,233.1	0.4	157.6	59.3	2,399.6	—	R 3,860.5	R 3,862.0	—	R 3,862.0
2015	—	R 1.4	5.4	R 1,051.1	0.3	91.8	69.2	1,821.9	—	R 3,039.8	R 3,041.3	—	R 3,041.3
2016	—	R 1.3	4.8	R 945.1	0.3	66.9	66.8	1,686.8	—	R 2,770.7	R 2,772.0	—	R 2,772.0
2017	—	R 0.5	5.1	R 1,089.5	0.2	95.4	62.6	1,946.7	—	R 3,199.5	R 3,200.0	—	R 3,200.0
2018	—	R 0.5	6.8	R 1,449.6	0.1	134.4	65.2	2,102.9	—	R 3,759.0	R 3,759.5	—	R 3,759.5
2019	—	R 0.6	6.9	R 1,378.1	0.2	R 119.9	67.1	2,117.7	—	R 3,689.7	R 3,690.3	—	R 3,690.3
2020	—	R 0.5	5.9	R 1,067.1	0.3	56.5	R 63.6	1,750.2	—	R 2,943.6	R 2,944.1	—	R 2,944.1
2021	—	R 0.7	7.6	R 1,501.0	0.1	128.6	72.7	2,603.2	—	R 4,313.2	R 4,313.9	—	R 4,313.9
2022	—	R 0.8	9.8	R 2,169.3	0.2	R 285.8	R 90.9	3,198.3	—	R 5,754.3	R 5,755.0	—	R 5,755.0
2023	—	0.8	8.4	1,853.7	0.1	192.3	72.3	3,003.5	—	5,130.2	5,131.0	—	5,131.0

[a] Transportation use of natural gas as vehicle fuel only.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET7. Electric power sector price and expenditure estimates, selected years, 1970-2023, Idaho

Year	Coal	Natural gas [a]	Petroleum: Distillate fuel oil	Petroleum: Petroleum coke	Petroleum: Residual fuel oil	Petroleum: Total	Nuclear fuel	Biomass: Wood and waste [b]	Electricity imports [c]	Total energy [d]
	Prices in dollars per million Btu									
1970	—	—	0.35	—	—	0.35	—	—	—	0.35
1975	—	1.38	2.20	—	—	2.20	—	—	—	1.89
1980	—	3.76	6.39	—	—	6.39	—	—	—	3.87
1985	—	5.44	6.07	—	—	6.07	—	—	9.34	8.78
1990	—	—	5.38	—	—	5.38	—	0.46	8.37	2.33
1995	—	—	4.82	—	—	4.82	—	0.70	6.21	0.75
2000	—	4.47	7.99	—	—	7.99	—	0.67	16.78	5.42
2005	—	6.52	13.63	—	—	13.63	—	2.28	16.53	6.27
2006	—	6.02	15.99	—	—	15.99	—	2.32	17.32	5.68
2007	—	6.04	17.72	—	—	17.72	—	2.42	18.25	5.98
2008	—	8.18	23.55	—	—	23.55	—	2.66	18.28	7.81
2009	—	6.43	14.08	—	—	14.08	—	2.20	12.10	6.00
2010	—	6.25	17.70	—	—	17.70	—	2.40	13.31	5.80
2011	—	6.74	23.64	—	—	23.64	—	2.44	11.53	6.05
2012	—	4.20	24.40	—	—	24.40	—	2.21	9.51	3.95
2013	—	4.35	23.85	—	—	23.85	—	2.26	11.49	4.11
2014	—	5.29	22.74	—	—	22.74	—	2.73	13.31	4.46
2015	—	2.85	14.73	—	—	14.73	—	2.62	10.54	2.81
2016	—	2.88	11.39	—	—	11.39	—	2.54	8.74	2.86
2017	—	3.26	14.32	—	—	14.32	—	2.40	9.18	3.19
2018	—	3.51	18.21	—	—	18.21	—	2.22	10.74	3.43
2019	—	4.01	16.96	—	—	16.96	—	2.33	—	3.91
2020	—	2.63	12.72	—	—	12.72	—	1.80	—	2.58
2021	—	4.25	18.40	—	—	18.40	—	2.39	—	4.15
2022	—	R 10.26	28.04	—	—	28.04	—	2.69	—	R 9.89
2023	—	6.52	24.66	—	—	24.66	—	2.93	—	6.42
	Expenditures in million dollars									
1970	—	—	(s)	—	—	(s)	—	—	—	(s)
1975	—	(s)	0.1	—	—	0.1	—	—	—	0.1
1980	—	0.2	(s)	—	—	(s)	—	—	—	0.2
1985	—	0.1	(s)	—	—	(s)	—	—	1.8	2.0
1990	—	—	(s)	—	—	(s)	—	0.6	3.0	3.6
1995	—	—	(s)	—	—	(s)	—	0.9	0.1	1.0
2000	—	8.0	0.2	—	—	0.2	—	0.5	7.3	15.9
2005	—	76.0	(s)	—	—	(s)	—	3.5	5.0	84.5
2006	—	59.4	(s)	—	—	(s)	—	3.5	2.4	65.3
2007	—	77.4	(s)	—	—	(s)	—	3.4	6.3	87.0
2008	—	104.1	(s)	—	—	(s)	—	3.4	3.4	110.9
2009	—	82.0	(s)	—	—	(s)	—	3.4	0.6	86.0
2010	—	78.7	(s)	—	—	(s)	—	4.1	0.2	83.1
2011	—	56.5	(s)	—	—	(s)	—	4.3	1.2	62.0
2012	—	57.7	(s)	—	—	(s)	—	5.2	1.1	64.0
2013	—	109.3	(s)	—	—	(s)	—	7.7	0.6	117.7
2014	—	98.6	(s)	—	—	(s)	—	25.3	0.8	124.7
2015	—	80.1	(s)	—	—	(s)	—	21.8	0.7	102.6
2016	—	68.1	(s)	—	—	(s)	—	6.0	0.4	74.5
2017	—	69.7	(s)	—	—	(s)	—	5.8	0.6	76.0
2018	—	85.0	(s)	—	—	(s)	—	5.0	1.2	91.2
2019	—	128.5	(s)	—	—	(s)	—	5.1	—	133.6
2020	—	81.7	(s)	—	—	(s)	—	3.9	—	85.6
2021	—	160.7	(s)	—	—	(s)	—	4.7	—	165.4
2022	—	R 343.0	(s)	—	—	(s)	—	4.6	—	R 347.7
2023	—	307.3	(s)	—	—	(s)	—	4.0	—	311.3

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[c] Electricity imported from Canada and Mexico.
[d] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET1. Primary energy, electricity, and total energy price and expenditure estimates, selected years, 1970-2023, Illinois

	Primary energy																
	Coal				Petroleum								Biomass				
	Coking coal	Steam coal	Total	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Nuclear fuel	Wood and waste [g,h]	Total [h,i,j,k]	Electric power sector [l,k,l]	Electricity [m]	Total energy [h,i,j]
Year	Prices in dollars per million Btu																
1970	0.42	0.36	0.36	0.72	1.11	1.41	0.74	3.05	0.60	1.51	1.89	0.15	2.74	1.09	0.32	5.98	1.70
1975	1.49	0.82	0.89	1.38	2.58	2.78	2.09	4.73	1.68	3.11	3.44	0.18	2.89	2.01	0.69	9.35	3.17
1980	1.93	1.63	1.64	3.33	6.88	5.35	6.38	9.81	4.92	7.63	7.81	0.33	3.16	4.32	1.60	15.33	6.72
1985	2.08	2.12	2.12	5.00	7.62	9.52	6.00	9.03	5.22	8.91	8.64	0.64	3.37	4.86	1.68	21.07	8.48
1990	1.84	1.70	1.71	4.57	7.89	9.85	5.84	9.35	3.01	8.47	8.71	0.57	2.58	4.27	1.12	22.02	8.73
1995	1.97	1.59	1.62	4.11	7.24	7.99	3.86	9.51	2.71	8.95	8.50	0.51	2.11	3.97	1.04	22.61	8.71
2000	1.66	1.16	1.19	6.56	10.20	11.63	6.53	12.31	3.49	9.43	10.89	0.46	1.84	5.10	0.91	20.38	10.47
2005	3.47	1.20	1.24	10.78	16.60	17.26	12.81	17.73	6.77	12.42	16.22	0.44	1.70	7.77	1.05	20.43	14.75
2006	3.83	1.29	1.33	10.29	18.77	19.20	14.73	20.20	8.74	15.83	18.80	0.41	1.70	8.26	0.96	20.78	15.91
2007	3.83	1.36	1.41	9.85	20.61	21.37	15.76	22.47	8.31	18.26	20.79	0.43	3.01	8.66	1.09	24.86	17.30
2008	4.71	1.60	1.65	11.38	26.98	25.23	21.87	26.04	11.98	18.57	25.07	0.46	3.50	10.20	1.20	27.10	19.87
2009	5.66	1.66	1.72	8.24	17.43	19.85	12.63	18.88	7.72	22.56	18.07	0.56	3.49	7.46	1.15	26.88	15.78
2010	6.24	1.74	1.85	8.34	22.26	17.13	16.16	22.57	11.07	R 22.89	R 21.25	0.65	3.99	R 8.33	1.26	26.82	R 17.26
2011	7.43	1.78	1.99	7.87	28.85	19.45	22.49	28.71	15.66	R 27.63	R 27.20	0.69	5.72	9.84	1.30	26.38	19.40
2012	6.87	1.97	2.20	6.84	R 29.32	14.03	22.85	29.31	13.95	R 30.46	R 27.45	0.75	5.66	9.71	1.39	24.70	R 19.20
2013	5.44	1.92	2.07	7.20	29.23	14.93	21.90	28.59	15.18	R 29.84	R 26.98	0.81	6.22	9.61	1.42	24.35	R 18.38
2014	4.68	2.00	2.12	8.61	28.28	15.79	20.49	27.33	15.62	R 29.82	R 25.95	0.77	R 6.44	9.79	1.46	27.60	R 18.89
2015	4.34	1.94	2.03	6.62	19.52	9.68	11.99	19.62	9.74	R 24.91	R 18.18	0.72	R 2.57	R 7.55	1.35	27.74	R 15.56
2016	3.59	1.99	2.06	6.12	R 16.56	8.98	9.93	17.45	7.31	R 22.46	R 15.87	0.68	R 2.19	R 6.89	1.31	27.69	R 14.58
2017	4.56	1.87	1.98	6.87	19.18	11.41	12.23	19.59	9.82	23.71	18.09	0.74	R 2.23	7.81	1.33	28.02	15.88
2018	4.76	1.81	1.92	6.56	23.02	13.03	15.88	21.72	10.63	27.90	20.90	0.72	R 2.65	8.48	1.30	28.33	16.82
2019	5.41	1.99	2.16	6.21	21.74	11.01	14.44	20.70	11.35	R 26.88	R 19.57	0.67	R 2.75	8.10	1.29	28.25	R 16.01
2020	4.71	1.69	1.89	5.53	17.40	9.92	9.47	16.98	8.40	23.63	16.04	0.64	R 2.95	R 6.57	1.08	28.79	14.46
2021	4.64	1.72	1.88	8.21	R 23.58	15.02	14.73	23.99	12.33	R 27.48	22.07	0.66	R 3.47	R 9.26	1.33	29.91	R 18.35
2022	7.29	2.11	2.41	R 11.04	R 36.36	16.64	26.09	31.59	19.77	R 36.13	R 31.23	0.62	R 5.73	12.80	R 1.55	35.24	23.98
2023	7.85	2.48	2.91	8.25	30.24	13.38	20.94	28.01	17.68	32.02	26.65	0.63	5.12	11.13	1.21	34.71	21.60
	Expenditures in million dollars																
1970	41.6	293.8	335.4	831.7	287.9	148.6	95.2	1,715.3	89.2	239.7	2,575.9	4.1	21.9	3,769.0	-254.5	1,417.0	4,931.4
1975	120.7	629.0	749.7	1,512.9	770.9	334.3	292.9	2,945.6	223.0	420.0	4,986.6	45.2	24.4	7,318.8	-689.6	2,644.9	9,274.1
1980	93.7	1,294.2	1,387.9	3,601.8	1,464.6	707.5	710.2	5,622.7	764.2	890.4	10,159.5	99.4	54.3	15,302.9	-1,794.2	4,948.4	18,457.1
1985	131.6	1,588.1	1,719.8	4,873.0	1,444.9	883.2	92.2	5,273.5	157.5	915.9	8,767.2	265.7	63.5	15,753.1	-1,851.3	7,062.7	20,964.5
1990	116.4	1,166.4	1,282.7	4,272.2	1,987.3	425.8	130.1	5,202.6	58.7	844.5	8,649.0	432.4	52.1	14,794.7	-1,546.2	8,307.0	21,555.4
1995	120.5	1,219.3	1,339.8	4,394.6	1,487.7	711.9	226.7	5,502.1	21.8	816.1	8,766.4	416.4	32.3	14,949.5	-1,624.2	9,656.9	22,982.2
2000	95.7	1,112.5	1,208.2	6,713.5	2,548.2	824.4	840.8	7,680.0	22.9	996.7	12,913.0	425.5	30.7	21,290.9	-1,700.2	9,292.4	28,883.1
2005	58.5	1,237.8	1,296.4	10,328.0	4,643.9	1,233.0	2,871.9	11,475.5	22.1	1,209.8	21,456.3	426.1	23.8	33,530.5	-2,100.3	10,013.2	41,443.4
2006	65.5	1,323.4	1,388.9	9,072.1	5,353.6	1,401.6	2,386.2	13,134.6	13.8	1,363.9	23,653.7	400.6	24.7	34,539.9	-1,911.2	10,002.3	42,631.0
2007	77.0	1,458.1	1,535.1	9,374.4	5,876.3	1,575.0	2,643.2	14,359.2	6.8	1,500.3	25,960.8	435.5	47.2	37,357.0	-2,255.7	12,269.4	47,370.7
2008	85.4	1,733.3	1,818.8	11,163.7	7,463.0	1,876.6	3,470.7	15,927.0	14.0	1,747.8	30,499.1	453.5	59.6	43,997.9	-2,448.6	13,240.4	54,789.7
2009	75.6	1,667.1	1,742.6	7,615.0	R 4,379.5	1,430.2	1,788.1	11,342.3	1.8	1,595.4	R 20,537.2	562.6	69.2	R 30,527.1	-2,276.3	12,400.8	R 40,651.6
2010	163.0	1,815.6	1,978.6	7,741.3	R 5,595.8	1,315.8	2,578.5	13,350.3	2.3	R 1,382.0	R 24,224.7	650.2	82.2	R 34,677.1	-2,563.8	13,111.8	R 45,225.0
2011	293.6	1,799.4	2,093.0	7,471.4	R 7,727.7	1,423.7	3,571.0	16,207.1	2.9	R 1,422.1	R 30,354.6	688.2	82.3	R 40,689.5	-2,593.8	12,722.1	R 50,817.9
2012	315.6	1,818.4	2,134.0	6,159.4	R 7,362.3	974.8	3,444.9	16,253.2	2.9	R 1,301.1	R 29,339.3	758.2	76.3	R 38,467.4	-2,736.8	11,958.3	R 47,688.9
2013	246.7	1,881.8	2,128.4	R 7,260.5	R 7,777.9	1,066.7	3,380.5	15,943.9	6.6	R 1,578.6	R 29,754.3	820.8	91.1	R 40,055.1	-2,830.4	11,518.5	R 48,743.2
2014	202.0	1,952.6	2,154.5	R 9,087.7	R 8,033.9	1,201.7	3,282.3	15,273.2	1.6	R 1,656.0	R 29,448.7	785.7	R 94.3	R 41,571.0	-2,887.6	13,026.9	R 51,710.2
2015	130.4	1,592.2	1,722.5	R 6,367.0	R 6,108.7	672.4	2,062.3	11,196.7	0.8	R 1,521.0	R 21,561.8	727.8	R 27.0	R 30,406.2	-2,522.4	12,823.4	R 40,707.1
2016	100.8	1,343.9	1,444.7	R 6,105.1	R 4,903.0	594.0	1,746.0	10,198.2	4.2	R 1,285.5	R 18,731.0	705.3	R 22.1	R 27,008.1	-2,362.3	13,024.3	R 37,670.1
2017	129.6	1,229.3	1,358.9	R 6,768.6	R 5,819.6	772.2	2,162.6	11,373.7	12.2	1,250.1	R 21,390.4	751.1	R 20.7	R 30,289.7	-2,345.0	12,813.0	R 40,757.8
2018	130.2	1,224.9	1,355.1	R 7,062.1	R 7,177.3	959.4	R 2,763.0	12,502.7	9.1	1,326.8	R 24,738.3	737.0	R 29.3	R 33,922.6	-2,335.9	13,472.6	R 45,059.3
2019	155.3	1,121.1	1,276.4	R 6,969.7	R 6,387.2	915.8	R 2,566.0	11,544.1	7.8	R 1,349.3	R 22,770.3	691.8	R 30.0	R 31,738.2	-2,227.7	13,012.9	R 42,523.4
2020	126.3	614.1	740.4	R 6,094.5	R 4,850.8	813.4	992.5	7,840.9	2.7	R 1,161.7	R 15,662.1	666.8	R 34.3	R 23,198.3	-1,726.4	12,702.7	R 34,174.6
2021	136.2	847.7	983.9	R 8,531.6	R 6,812.6	1,249.6	R 2,158.3	11,980.2	11.5	R 1,377.6	R 23,589.8	667.5	R 38.8	R 33,811.7	-2,194.0	13,523.0	R 45,140.7
2022	208.7	987.5	1,196.2	R 11,942.0	R 10,600.5	1,273.4	R 4,024.8	15,663.4	18.7	R 1,830.3	R 33,411.1	641.0	R 63.4	R 47,253.7	R -2,496.1	15,937.3	R 60,694.8
2023	216.6	781.9	998.5	8,646.4	8,608.4	1,063.8	3,307.7	13,924.3	13.7	1,565.3	28,483.3	640.4	51.5	38,820.2	-1,831.0	15,062.7	52,051.8

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[l] Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
[m] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET2. Total end-use energy price and expenditure estimates, selected years, 1970-2023, Illinois

Year	Primary energy											Electricity [k]	Total energy [h,i,j]
			Petroleum							Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g,h]	Total [h,i,j]		
	Prices in dollars per million Btu												
1970	0.50	0.77	1.14	1.41	0.74	3.05	0.60	1.51	1.93	2.74	1.32	5.98	1.70
1975	1.34	1.39	2.61	2.78	2.08	4.73	1.85	3.11	3.53	2.89	2.51	9.35	3.17
1980	1.79	3.34	6.89	5.35	6.38	9.81	4.20	7.63	7.96	3.16	5.57	15.33	6.72
1985	1.88	5.00	7.64	9.52	6.00	9.03	4.28	8.91	8.69	3.37	6.50	21.07	8.48
1990	1.58	4.59	7.92	9.85	5.84	9.35	2.32	8.47	8.77	2.86	6.33	22.02	8.73
1995	1.56	4.20	7.30	7.99	3.86	9.51	2.77	9.17	8.57	2.60	6.03	22.61	8.71
2000	1.42	6.65	10.23	11.63	6.53	12.31	3.95	9.43	10.93	3.55	8.51	20.38	10.47
2005	1.87	10.92	16.63	17.26	12.81	17.73	6.75	12.55	16.24	3.70	13.55	20.43	14.75
2006	2.08	10.47	18.79	19.20	14.73	20.20	8.94	15.88	18.81	3.46	14.84	20.78	15.91
2007	2.15	10.05	20.63	21.37	15.76	22.47	8.39	18.26	20.80	3.69	15.64	24.86	17.30
2008	2.38	11.43	27.00	25.23	21.87	26.04	12.05	18.57	25.07	4.57	18.32	27.10	19.87
2009	2.88	8.38	17.45	19.85	12.63	18.88	7.73	22.56	18.07	4.66	13.36	26.88	15.78
2010	3.44	8.51	22.28	17.13	16.16	22.57	11.68	R 22.89	R 21.26	5.34	R 15.06	26.82	R 17.26
2011	4.20	8.01	28.87	19.45	22.49	28.71	15.66	R 27.63	R 27.20	10.12	R 17.83	26.38	19.40
2012	4.17	7.24	29.34	14.03	22.85	29.31	13.95	R 30.46	R 27.45	11.06	R 17.87	24.70	R 19.20
2013	3.59	7.33	R 29.24	14.93	21.90	28.59	15.18	R 29.84	R 26.98	11.10	R 17.08	24.35	R 18.38
2014	3.17	8.72	28.30	15.79	20.49	27.33	15.62	R 29.82	R 25.95	11.10	17.07	27.60	R 18.89
2015	2.92	R 6.90	19.53	9.68	11.99	19.62	9.74	R 24.91	R 18.18	R 6.13	R 12.94	27.74	R 15.56
2016	2.68	6.70	16.58	8.98	9.93	17.45	7.31	R 22.46	R 15.87	R 4.96	R 11.66	27.69	R 14.58
2017	2.95	7.49	19.19	11.41	12.23	19.59	9.82	23.71	18.09	R 5.17	R 13.24	28.02	15.88
2018	3.06	7.05	23.03	13.03	15.88	21.72	10.63	27.90	R 20.90	R 5.38	14.34	28.33	16.82
2019	3.34	6.82	R 21.75	11.01	14.44	20.70	11.35	R 26.88	19.58	R 5.43	13.45	28.25	R 16.01
2020	3.00	6.44	17.41	9.92	9.47	16.98	8.40	23.63	16.04	R 5.12	11.17	28.79	14.46
2021	2.90	9.05	R 23.59	15.02	14.73	23.99	12.33	R 27.48	22.07	R 5.92	R 15.74	29.91	R 18.35
2022	5.44	R 11.70	36.39	16.64	26.09	31.59	19.77	R 36.13	R 31.24	R 9.02	21.53	35.24	23.98
2023	6.55	9.60	30.25	13.38	20.94	28.01	17.68	32.02	26.65	7.94	18.72	34.71	21.60
	Expenditures in million dollars												
1970	155.1	784.1	277.6	148.6	95.2	1,715.3	77.0	239.7	2,553.4	21.9	3,514.5	1,417.0	4,931.4
1975	255.6	1,473.2	729.0	334.3	285.7	2,945.6	161.5	420.0	4,876.1	24.4	6,629.2	2,644.9	9,274.1
1980	236.1	3,539.3	1,439.4	707.5	704.0	5,622.7	314.9	890.4	9,678.9	54.3	13,508.7	4,948.4	18,457.1
1985	278.2	4,841.7	1,429.6	883.2	92.2	5,273.5	60.1	915.9	8,654.5	63.5	13,901.8	7,062.7	20,964.5
1990	247.2	4,247.1	1,972.3	425.8	130.1	5,202.6	21.6	844.5	8,596.9	51.0	13,248.5	8,307.0	21,555.4
1995	233.6	4,327.5	1,475.6	711.9	226.7	5,502.1	4.6	814.7	8,735.6	28.6	13,325.3	9,656.9	22,982.2
2000	200.9	6,487.8	2,533.3	824.4	840.8	7,680.0	6.2	996.7	12,881.4	20.7	19,590.7	9,292.4	28,883.1
2005	179.7	9,804.5	4,618.9	1,233.0	2,871.9	11,475.5	16.1	1,208.8	21,424.2	21.8	31,430.2	10,013.2	41,443.4
2006	204.4	8,767.0	5,336.3	1,401.6	2,386.2	13,134.6	12.4	1,363.5	23,634.6	22.7	32,628.7	10,002.3	42,631.0
2007	221.6	8,920.1	5,848.7	1,575.0	2,643.2	14,359.2	6.2	1,500.3	25,932.6	27.0	35,101.3	12,269.4	47,370.7
2008	237.6	10,814.4	7,427.6	1,876.6	3,470.7	15,927.0	13.4	1,747.8	30,463.1	34.3	41,549.4	13,240.4	54,789.7
2009	224.2	7,459.2	R 4,361.1	1,430.2	1,788.1	11,342.3	1.7	1,595.4	R 20,518.9	48.5	R 28,250.8	12,400.8	R 40,651.6
2010	343.8	7,505.3	R 5,576.2	1,315.8	2,578.5	13,350.3	1.8	R 1,382.0	R 24,204.7	59.5	R 32,113.3	13,111.8	R 45,225.0
2011	478.2	7,222.2	R 7,706.3	1,423.7	3,571.0	16,207.1	2.9	R 1,422.1	R 30,333.2	62.1	R 38,095.7	12,722.1	R 50,817.9
2012	486.3	5,866.0	R 7,343.2	974.8	3,444.9	16,253.2	2.9	R 1,301.1	R 29,320.1	58.1	R 35,730.6	11,958.3	R 47,688.9
2013	411.0	R 7,004.9	R 7,759.6	1,066.7	3,380.5	15,943.9	6.6	R 1,578.6	R 29,736.0	72.8	R 37,224.7	11,518.5	R 48,743.2
2014	356.4	R 8,827.8	R 8,012.3	1,201.7	3,282.3	15,273.2	1.6	R 1,656.0	R 29,427.1	R 72.1	R 38,683.4	13,026.9	R 51,710.2
2015	259.5	R 6,050.1	R 6,100.1	672.4	2,062.3	11,196.7	0.8	R 1,521.0	R 21,553.2	R 21.0	R 27,883.8	12,823.4	R 40,707.1
2016	221.4	R 5,685.4	R 4,894.5	594.0	1,746.0	10,198.2	4.2	R 1,285.5	R 18,722.4	R 16.6	R 24,645.9	13,024.3	R 37,670.1
2017	249.2	R 6,296.7	R 5,811.7	772.2	2,162.6	11,373.7	12.2	1,250.1	R 21,382.5	R 16.4	R 27,944.8	12,813.0	R 40,757.8
2018	252.8	R 6,581.0	R 7,167.3	959.4	R 2,763.0	12,502.7	9.1	1,326.8	R 24,728.3	R 24.7	R 31,586.7	13,472.6	R 45,059.3
2019	272.5	R 6,451.0	R 6,378.5	915.8	R 2,566.0	11,544.1	7.8	R 1,349.3	R 22,761.6	R 25.4	R 29,510.5	13,012.9	R 42,523.4
2020	237.9	R 5,547.5	R 4,846.1	813.4	992.5	7,840.9	2.7	R 1,161.7	R 15,657.5	R 29.0	R 21,471.8	12,702.7	R 34,174.6
2021	211.3	R 7,793.7	R 6,801.3	1,249.6	R 2,158.3	11,980.2	11.5	R 1,377.6	R 23,578.5	R 34.2	R 31,617.7	13,523.0	R 45,140.7
2022	380.5	R 10,916.7	R 10,590.3	1,273.4	R 4,024.8	15,663.4	18.7	R 1,830.3	R 33,400.8	R 59.5	R 44,757.6	15,937.3	R 60,694.8
2023	414.4	8,051.4	8,599.7	1,063.8	3,307.7	13,924.3	13.7	1,565.3	28,474.6	48.8	36,989.1	15,062.7	52,051.8

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. · Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2023, Illinois

Year	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
	Prices in dollars per million Btu									
1970	1.03	1.02	1.21	1.98	1.65	1.47	0.57	1.10	7.97	1.89
1975	2.11	1.57	2.57	3.72	3.18	2.96	1.12	1.83	11.41	3.06
1980	2.15	3.53	6.91	7.07	8.71	7.02	2.87	3.76	17.78	6.00
1985	2.34	5.34	7.38	7.82	7.02	7.54	3.24	5.43	26.42	8.96
1990	2.26	4.95	7.36	7.90	7.24	7.67	3.56	5.04	29.07	9.55
1995	2.30	4.57	6.02	7.97	7.28	7.52	2.90	4.66	30.40	9.71
2000	1.87	7.17	8.40	11.22	9.29	10.89	4.41	7.32	25.89	11.28
2005	2.21	11.45	15.50	15.78	15.52	15.75	6.91	11.60	24.46	14.98
2006	3.07	11.01	17.78	17.82	19.73	17.86	7.96	11.30	24.69	14.93
2007	3.06	10.61	19.50	19.60	22.38	19.63	8.79	11.01	29.67	15.89
2008	—	11.91	24.34	23.34	23.52	23.38	10.83	12.56	32.44	17.35
2009	—	8.86	16.65	18.69	23.75	18.68	8.13	9.38	33.04	15.09
2010	—	9.32	21.24	20.74	25.23	20.78	9.60	9.99	33.78	16.39
2011	—	8.69	27.42	21.92	28.56	22.11	11.54	9.41	34.54	16.01
2012	—	8.17	27.33	19.25	29.95	19.43	12.85	8.76	33.34	15.95
2013	—	8.07	28.35	19.01	30.61	19.20	12.58	8.70	31.14	14.17
2014	—	9.37	27.40	24.33	32.95	24.43	12.27	10.03	34.92	15.82
2015	—	7.74	17.94	16.32	17.01	16.36	8.45	8.13	36.64	15.53
2016	—	7.63	15.53	14.75	13.56	14.77	7.22	7.95	36.74	15.78
2017	—	8.57	17.69	18.15	16.96	18.14	8.08	9.01	37.96	16.75
2018	—	7.92	19.29	18.69	26.13	18.72	8.94	8.44	37.41	15.77
2019	—	7.79	18.57	16.69	22.88	16.74	8.60	8.31	38.18	15.55
2020	—	7.65	16.10	15.07	14.86	15.08	7.11	8.10	38.23	R 16.03
2021	—	10.17	20.42	21.17	23.47	21.17	R 8.53	R 10.87	38.61	R 18.36
2022	—	R 13.25	30.06	23.51	40.76	23.68	R 13.20	R 13.81	45.87	R 21.89
2023	—	11.12	27.52	21.02	36.41	21.17	12.07	11.82	46.03	20.90
	Expenditures in million dollars									
1970	29.1	459.4	84.1	65.9	12.5	162.5	1.3	652.3	612.9	1,265.2
1975	10.9	772.0	185.3	131.1	22.1	338.4	2.8	1,124.1	1,026.4	2,150.4
1980	1.9	1,728.1	141.3	110.3	7.9	259.6	26.4	2,016.0	1,815.6	3,831.6
1985	3.1	2,480.4	100.8	106.1	22.6	229.5	30.8	2,743.8	2,702.2	5,446.0
1990	2.7	2,238.2	59.8	97.7	4.2	161.6	36.2	2,438.7	3,260.4	5,699.1
1995	1.5	2,335.2	26.7	118.9	3.5	149.0	15.8	2,501.5	3,981.8	6,483.3
2000	1.0	3,423.5	20.1	235.1	6.4	261.6	15.9	3,702.0	3,546.3	7,248.3
2005	0.6	5,084.6	19.1	263.9	10.3	293.3	13.8	5,392.3	4,054.9	9,447.2
2006	0.8	4,452.2	18.5	321.6	7.6	347.7	14.1	4,814.9	3,907.2	8,722.1
2007	1.1	4,659.6	17.5	401.3	6.6	425.3	17.2	5,103.3	4,863.3	9,966.6
2008	—	5,623.7	28.6	645.3	3.2	677.0	23.7	6,324.5	5,177.7	11,502.2
2009	—	3,947.4	11.2	468.8	4.2	484.3	36.0	4,467.6	4,996.4	9,464.0
2010	—	3,911.6	14.3	526.6	4.9	545.8	45.5	4,502.9	5,599.0	10,101.9
2011	—	3,671.3	17.4	490.2	3.9	511.5	53.1	4,235.9	5,545.1	9,781.0
2012	—	2,981.0	10.3	354.8	1.2	366.3	49.4	3,396.6	5,335.1	8,731.7
2013	—	3,711.3	12.6	483.0	1.7	R 497.4	63.1	4,271.8	4,927.7	9,199.5
2014	—	4,598.1	13.4	508.6	3.1	525.1	62.3	5,185.5	5,481.1	10,666.6
2015	—	3,195.0	7.4	314.0	1.1	322.5	15.8	R 3,533.3	5,581.1	9,114.4
2016	—	3,046.3	6.6	270.0	1.4	278.0	12.0	3,336.3	5,764.9	9,101.3
2017	—	3,333.4	7.5	329.0	1.1	R 337.6	11.7	3,682.7	5,661.9	9,344.6
2018	—	3,571.5	9.5	416.6	1.2	427.3	R 16.8	R 4,015.5	6,028.5	10,044.0
2019	—	3,522.5	6.9	464.2	1.9	R 473.0	17.1	R 4,012.6	5,891.0	9,903.5
2020	—	3,141.3	5.0	402.9	0.8	408.6	R 19.3	R 3,569.2	6,022.0	R 9,591.2
2021	—	4,079.9	9.1	580.9	1.5	591.5	R 23.9	R 4,695.4	6,167.8	R 10,863.1
2022	—	5,855.2	14.2	584.7	2.5	R 601.4	R 46.6	R 6,503.2	7,274.1	R 13,777.3
2023	—	4,207.0	11.9	576.0	3.7	591.6	36.2	4,834.9	6,804.1	11,639.0

[a] Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2023, Illinois

Year	Primary energy										Electricity [j]	Total energy [g,h,i]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f,g]	Total [g,h,i]		
	Prices in dollars per million Btu											
1970	0.46	0.73	1.04	1.10	0.82	3.05	0.60	0.85	0.57	0.74	6.61	1.94
1975	1.19	1.28	2.39	2.21	2.51	4.73	1.36	2.00	1.12	1.43	10.38	3.61
1980	1.71	3.27	6.49	4.71	5.93	9.81	5.51	6.40	2.87	3.67	16.70	7.35
1985	1.72	4.84	6.10	8.76	7.02	9.03	4.14	6.44	3.24	4.98	22.36	10.20
1990	1.39	4.54	5.37	9.57	7.24	9.35	2.29	6.37	3.56	4.61	22.18	11.09
1995	1.27	4.33	4.55	7.80	7.28	9.51	2.78	5.40	2.85	4.34	22.54	11.69
2000	1.25	6.75	7.32	11.08	9.29	12.31	4.39	8.69	4.18	6.76	20.57	12.91
2005	1.53	11.04	13.89	16.36	15.52	17.73	6.74	14.94	6.85	11.07	22.72	16.19
2006	1.71	10.74	16.18	18.16	19.73	20.20	9.34	17.62	7.90	10.97	23.30	16.49
2007	1.74	10.25	17.93	19.61	22.38	22.47	—	19.24	8.68	10.47	25.13	17.04
2008	2.19	11.54	24.37	23.35	23.52	26.04	12.44	24.24	10.80	11.99	27.10	18.36
2009	2.86	8.55	13.94	18.68	23.75	18.88	—	16.99	8.10	8.91	26.51	16.19
2010	2.89	8.69	17.97	19.65	25.23	22.57	11.68	19.04	9.59	9.06	26.01	16.71
2011	2.73	8.18	24.23	22.99	28.56	28.71	15.66	24.21	11.53	8.76	25.33	15.83
2012	2.79	7.70	24.44	16.92	29.95	29.31	—	23.40	12.80	8.35	23.41	15.29
2013	2.61	7.45	24.61	18.03	30.61	28.59	—	22.70	12.58	8.16	23.87	14.56
2014	2.59	8.66	23.86	20.25	32.95	27.33	15.99	23.22	12.27	9.22	27.14	16.27
2015	2.54	7.08	14.62	11.33	17.01	19.62	—	17.20	8.45	7.97	26.45	15.55
2016	2.40	6.91	12.34	10.54	13.56	17.45	—	15.15	7.22	7.62	26.43	15.44
2017	2.33	7.55	14.38	14.45	16.96	19.59	—	R 17.31	8.08	8.41	26.63	15.84
2018	2.36	7.03	17.79	15.88	26.13	21.72	—	R 19.79	8.94	8.04	26.74	15.28
2019	2.34	6.80	15.73	12.10	22.88	20.70	—	17.80	8.60	7.72	26.62	14.78
2020	2.36	6.59	10.63	11.28	14.86	16.98	—	14.26	7.11	7.30	26.81	14.77
2021	2.25	8.81	16.93	18.45	23.47	23.99	—	20.92	R 8.53	10.00	28.29	R 16.98
2022	2.22	R 11.71	28.31	19.57	40.76	31.59	—	29.12	R 13.20	R 13.38	33.17	R 20.51
2023	2.61	9.53	21.80	15.20	36.41	28.01	—	24.54	12.07	10.85	32.95	19.27
	Expenditures in million dollars											
1970	10.3	144.9	22.9	6.3	0.2	8.5	28.8	66.7	(s)	221.9	505.6	727.5
1975	14.4	283.2	54.4	13.5	0.7	16.8	42.4	127.8	0.1	425.4	994.8	1,420.2
1980	5.5	761.8	79.4	12.7	0.5	51.9	91.1	235.7	0.7	1,003.7	1,799.3	2,803.0
1985	8.0	1,073.9	146.7	20.5	3.8	26.1	8.9	205.9	0.7	1,288.9	2,485.9	3,774.8
1990	6.6	929.2	56.3	20.4	1.1	27.5	2.9	108.2	4.0	1,048.6	2,951.6	4,000.1
1995	5.6	901.0	49.6	20.0	3.3	6.8	0.8	80.5	2.2	989.3	3,476.5	4,465.8
2000	5.6	1,392.2	68.3	40.0	3.6	14.3	0.4	126.5	2.7	1,527.0	3,730.1	5,257.1
2005	4.7	2,261.1	67.3	50.6	4.6	22.9	2.6	148.0	2.2	2,416.0	3,874.7	6,290.8
2006	4.8	2,142.3	86.6	56.5	3.7	44.8	0.1	191.7	2.4	2,341.1	4,025.1	6,366.2
2007	5.8	2,115.0	77.1	52.7	4.5	27.7	—	162.0	2.8	2,285.6	4,461.5	6,747.2
2008	10.2	2,601.9	172.6	83.9	0.9	35.6	0.3	293.3	3.6	2,908.9	4,786.4	7,695.4
2009	11.2	1,929.2	68.4	65.7	1.4	86.3	—	221.8	5.1	2,167.3	4,552.3	6,719.6
2010	11.0	1,734.8	92.4	60.0	1.4	27.5	1.6	182.9	5.9	1,934.7	4,565.3	6,499.9
2011	9.1	1,783.1	130.8	64.0	0.8	27.0	1.9	224.5	6.9	2,023.6	4,361.2	6,384.8
2012	8.0	1,463.4	142.2	35.4	0.3	37.0	—	214.9	6.7	1,693.0	4,058.5	5,751.5
2013	7.7	1,747.3	R 182.3	74.9	0.5	24.9	—	R 282.6	7.6	R 2,045.2	4,110.8	R 6,156.0
2014	7.1	2,182.0	R 181.3	58.1	1.1	22.5	(s)	R 263.1	R 7.4	2,459.6	4,687.9	7,147.5
2015	5.5	1,568.9	R 100.8	27.7	0.4	259.9	—	R 388.8	R 2.1	R 1,965.3	4,540.5	6,505.8
2016	5.7	1,517.1	R 82.0	25.9	0.4	228.5	—	R 336.9	R 1.9	R 1,861.5	4,591.7	6,453.3
2017	5.4	1,679.8	R 88.9	57.1	0.3	253.8	—	R 400.0	R 1.9	R 2,087.1	4,542.6	R 6,629.7
2018	6.0	1,751.9	R 104.3	55.4	0.6	285.9	—	R 446.2	R 2.2	R 2,206.3	4,631.4	6,837.8
2019	4.7	1,736.5	R 107.9	51.9	0.6	274.2	—	R 434.6	R 2.1	R 2,177.9	4,475.9	R 6,653.8
2020	4.3	1,473.0	R 60.5	59.6	0.3	226.9	—	R 347.4	R 3.8	R 1,828.5	4,160.6	R 5,989.1
2021	4.1	2,028.4	R 101.8	130.3	0.5	323.7	—	R 556.2	R 4.6	R 2,593.4	4,529.4	R 7,122.8
2022	3.6	2,982.9	R 178.2	79.5	0.8	558.9	—	R 817.4	R 7.1	R 3,811.1	5,332.1	R 9,143.1
2023	4.1	2,169.6	125.6	52.2	1.2	383.3	—	562.3	6.5	2,742.5	5,124.3	7,866.8

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[g] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[j] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: Expenditure totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2023, Illinois

Year	Primary energy												Electricity [i]	Total energy [f,g,h]
	Coal			Natural gas [a]	Petroleum						Biomass	Total [f,g,h]		
	Coking coal	Steam coal	Total		Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e,f]			
	Prices in dollars per million Btu													
1970	0.42	0.46	0.44	0.49	0.76	1.15	3.05	0.59	1.31	1.19	3.64	0.76	3.56	0.97
1975	1.49	1.19	1.33	1.19	2.33	2.41	4.73	2.14	2.78	2.63	3.64	1.80	6.43	2.26
1980	1.93	1.71	1.79	3.10	5.37	5.13	9.81	3.78	7.03	5.78	3.51	4.02	11.82	4.96
1985	2.08	1.72	1.88	4.57	6.16	9.84	9.03	4.14	8.11	8.20	3.51	5.21	15.35	6.78
1990	1.84	1.39	1.58	4.01	5.72	10.66	9.35	2.29	7.19	7.17	1.66	4.33	15.82	6.36
1995	1.97	1.27	1.57	3.50	5.34	7.93	9.51	2.78	7.75	7.31	2.21	4.23	15.45	6.19
2000	1.66	1.25	1.43	5.72	7.75	11.78	12.31	4.39	8.02	8.95	1.33	5.76	14.62	7.36
2005	3.47	1.53	1.88	9.87	14.56	17.72	17.73	6.74	10.37	13.69	1.61	9.86	13.51	10.66
2006	3.83	1.71	2.09	9.29	16.63	19.64	20.20	9.34	12.95	16.16	1.39	10.42	13.74	11.15
2007	3.83	1.74	2.16	8.87	19.60	22.10	22.47	8.61	14.99	18.54	1.39	10.87	19.36	12.75
2008	4.71	1.84	2.39	10.44	25.83	26.42	26.04	12.44	15.30	21.08	1.39	12.65	21.51	14.59
2009	5.66	2.27	2.88	7.22	15.22	20.47	18.88	8.00	18.98	18.57	1.38	10.12	20.56	12.58
2010	6.24	2.43	3.46	7.08	19.04	15.05	22.57	11.68	R 19.32	R 18.10	1.39	R 9.52	19.97	R 11.84
2011	7.43	2.47	4.24	6.77	26.04	18.06	28.71	15.66	R 22.78	R 22.44	2.32	R 10.49	18.82	R 12.35
2012	6.87	2.40	4.21	5.57	25.09	11.92	29.31	16.95	R 25.28	R 20.57	2.30	R 9.20	16.99	R 10.99
2013	5.44	2.37	3.62	5.90	24.57	12.10	28.59	16.72	R 25.72	R 21.50	2.25	R 9.64	17.42	R 11.31
2014	4.68	2.22	3.19	7.57	22.85	12.09	27.33	15.99	R 25.72	R 20.38	2.92	R 10.37	20.08	R 12.39
2015	4.34	2.18	2.93	5.31	14.81	6.89	19.62	10.30	R 20.36	R 14.63	2.35	R 7.88	19.54	R 10.44
2016	3.59	2.20	2.69	4.87	11.76	6.53	17.45	7.34	R 17.91	R 12.67	1.93	R 7.02	19.07	R 9.80
2017	4.56	2.13	2.97	5.59	14.07	8.38	19.59	9.82	19.07	14.28	1.87	7.87	18.98	10.41
2018	4.76	2.21	3.08	5.39	17.40	9.97	21.72	11.15	22.89	16.89	2.32	8.60	19.92	11.23
2019	5.41	2.22	3.37	5.01	16.08	7.61	20.70	11.35	R 22.28	R 15.42	2.51	R 8.03	19.12	R 10.53
2020	4.71	2.12	3.02	4.10	10.83	6.98	16.98	8.40	19.30	12.53	2.43	6.66	19.63	9.48
2021	4.64	1.70	2.92	7.33	17.19	11.00	23.99	12.56	R 22.80	R 17.35	2.34	R 9.90	21.38	R 12.48
2022	7.29	4.24	5.52	R 8.80	28.91	12.72	31.59	20.07	R 30.57	R 24.40	R 2.29	13.35	25.12	R 15.99
2023	7.85	5.67	6.65	7.20	22.25	8.87	28.01	18.02	27.08	19.71	2.32	11.24	24.04	14.13
	Expenditures in million dollars													
1970	41.6	73.9	115.5	179.9	47.4	74.2	96.4	46.8	185.9	450.7	20.6	766.6	294.3	1,060.9
1975	120.7	109.5	230.2	418.0	150.9	185.6	106.5	117.0	330.0	890.0	21.6	1,559.8	618.3	2,178.0
1980	93.7	135.1	228.7	1,049.4	240.0	581.2	180.7	214.4	744.1	1,960.4	27.3	3,265.9	1,322.1	4,587.9
1985	131.6	135.5	267.1	1,287.4	236.6	740.2	82.5	44.3	726.8	1,830.5	32.0	3,418.0	1,849.8	5,267.8
1990	116.4	121.6	237.9	1,079.6	294.8	293.1	62.1	17.7	637.8	1,305.5	10.9	2,635.1	2,067.8	4,702.9
1995	120.5	106.0	226.5	1,091.0	243.3	559.1	74.2	3.2	603.7	1,483.6	10.7	2,811.8	2,171.8	4,983.6
2000	95.7	98.5	194.2	1,670.9	351.5	536.1	66.1	3.9	755.8	1,713.4	2.1	3,580.7	1,990.9	5,571.6
2005	58.5	115.9	174.4	2,455.7	692.4	893.6	243.0	12.5	900.1	2,741.6	5.7	5,377.4	2,054.0	7,431.4
2006	65.5	133.3	198.8	2,169.9	806.5	983.7	287.6	10.2	997.4	3,085.4	6.2	5,460.2	2,041.0	7,501.2
2007	77.0	137.7	214.7	2,143.2	980.4	1,088.4	207.3	4.4	1,096.3	3,376.8	7.0	5,741.6	2,909.5	8,651.1
2008	85.4	142.0	227.5	2,585.8	1,363.8	1,065.0	199.3	10.9	1,315.1	3,954.2	6.9	6,774.3	3,233.6	10,008.0
2009	75.6	137.4	213.0	1,581.0	480.1	850.7	144.5	0.6	1,203.0	2,678.8	7.4	4,480.2	2,807.9	7,288.1
2010	163.0	169.8	332.8	1,856.8	665.8	725.9	241.2	0.3	R 1,048.5	R 2,681.7	8.1	R 4,879.3	2,909.8	R 7,789.2
2011	293.6	175.4	469.0	1,764.8	932.1	866.0	299.0	1.0	R 1,037.0	R 3,135.2	2.2	R 5,371.2	2,780.6	R 8,151.8
2012	315.6	162.6	478.3	1,418.7	889.7	582.4	290.2	1.3	R 947.9	R 2,711.5	2.0	R 4,610.4	2,530.8	R 7,141.2
2013	246.7	156.6	403.3	1,543.0	972.4	505.3	291.2	5.0	R 1,221.0	R 2,995.0	2.1	R 4,943.4	2,449.4	R 7,392.8
2014	202.0	147.3	349.2	2,042.6	1,017.9	631.0	219.4	1.5	R 1,284.3	R 3,154.1	2.4	R 5,548.3	2,818.0	R 8,366.3
2015	130.4	123.6	254.0	1,281.2	659.5	327.6	188.9	0.7	R 1,112.3	R 2,288.9	3.1	R 3,827.2	2,666.1	R 6,493.3
2016	100.8	114.9	215.7	1,116.5	499.1	294.5	180.9	4.2	R 918.3	R 1,896.9	2.7	R 3,231.8	2,633.0	R 5,864.9
2017	129.6	114.2	243.8	1,281.2	584.5	379.3	205.4	12.2	899.8	2,081.2	2.8	3,608.9	2,575.5	6,184.4
2018	130.2	116.6	246.8	1,256.0	779.4	466.6	230.0	8.0	967.2	2,451.3	5.7	3,959.7	2,775.4	6,735.2
2019	155.3	112.5	267.8	1,190.5	685.3	380.7	214.4	7.8	R 1,009.0	R 2,297.2	6.1	R 3,761.7	2,606.6	R 6,368.3
2020	126.3	107.2	233.6	932.0	471.3	347.5	177.6	2.7	R 867.0	R 1,866.2	5.9	R 3,037.6	2,490.7	R 5,528.3
2021	136.2	70.9	207.2	1,684.4	735.9	533.6	251.3	11.1	R 1,040.6	R 2,572.6	5.7	R 4,469.8	2,796.6	R 7,266.4
2022	208.7	168.2	376.9	2,077.5	1,250.9	601.7	340.5	17.9	R 1,404.4	R 3,615.3	R 5.8	R 6,075.5	3,298.3	R 9,373.9
2023	216.6	193.8	410.4	1,672.1	939.7	428.5	287.1	13.2	1,225.8	2,894.4	6.1	4,982.8	3,105.7	8,088.5

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[i] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET6. Transportation sector energy price and expenditure estimates, selected years, 1970-2023, Illinois

Year	Primary energy											Electricity [g]	Total energy [f]
			Petroleum										
	Coal	Natural gas[a]	Aviation gasoline	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Lubricants	Motor gasoline [e]	Residual fuel oil	Total	Total [f]		
	Prices in dollars per million Btu												
1970	0.46	—	2.17	1.39	1.10	0.74	5.08	3.05	0.57	2.47	2.47	4.08	2.47
1975	1.19	—	3.45	2.84	2.21	2.08	7.48	4.73	1.61	4.06	4.06	6.11	4.07
1980	—	—	9.02	7.45	4.71	6.38	14.36	9.81	5.32	8.99	8.99	11.82	9.00
1985	—	—	9.99	8.52	10.15	6.00	18.18	9.03	5.88	8.99	8.99	19.14	9.01
1990	—	4.41	9.32	8.73	11.62	5.84	20.61	9.35	3.11	9.24	9.24	19.60	9.26
1995	—	2.83	8.36	8.18	12.57	3.86	21.75	9.51	2.73	8.98	8.98	20.00	9.00
2000	—	4.30	10.87	10.98	15.80	6.53	23.20	12.31	3.21	11.36	11.36	16.04	11.37
2005	—	9.74	18.56	17.13	21.22	12.81	35.22	17.73	6.89	16.73	16.73	16.45	16.73
2006	—	9.60	22.31	19.31	22.86	14.73	43.88	20.20	7.46	19.33	19.33	16.37	19.32
2007	—	9.46	23.70	20.91	25.06	15.76	47.16	22.47	7.90	21.23	21.23	18.84	21.23
2008	—	12.58	27.23	27.39	29.01	21.87	55.12	26.04	10.46	25.89	25.89	22.08	25.88
2009	—	7.18	20.32	17.86	23.84	12.63	56.07	18.88	7.59	18.00	17.99	24.59	18.01
2010	—	7.17	25.19	22.93	26.16	16.16	58.80	22.57	—	21.78	21.78	19.69	21.78
2011	—	11.49	31.64	29.43	29.39	22.49	69.54	28.71	—	28.06	28.06	19.97	28.04
2012	—	11.27	33.04	30.20	22.22	22.85	72.11	29.31	12.27	28.66	R 28.65	18.02	28.63
2013	—	R 11.08	32.71	30.25	23.52	21.90	69.42	28.59	11.78	28.08	28.08	15.64	28.05
2014	—	R 12.35	33.16	29.50	26.15	20.49	69.44	27.33	11.38	26.93	26.93	20.08	26.91
2015	—	R 12.42	24.86	20.47	15.61	11.99	67.28	19.62	6.13	18.80	18.80	19.95	18.80
2016	—	R 11.30	21.62	17.53	14.68	9.93	65.78	17.45	4.45	16.40	R 16.39	19.54	16.40
2017	—	R 11.61	24.13	20.14	19.07	12.23	67.25	19.59	—	R 18.66	18.66	18.62	18.66
2018	—	R 11.66	27.04	24.12	19.82	15.88	72.37	21.72	7.88	21.57	21.57	19.78	21.56
2019	—	R 11.51	25.57	22.92	17.61	14.44	74.92	20.70	—	20.35	20.35	20.24	20.35
2020	—	R 11.36	22.34	18.83	17.91	9.47	75.34	16.98	—	16.80	16.80	19.22	16.81
2021	—	R 13.22	28.86	24.91	26.86	14.73	81.25	23.99	8.16	R 22.94	R 22.94	18.81	R 22.93
2022	—	R 13.20	36.02	37.95	26.78	26.09	97.37	31.59	14.30	32.70	R 32.69	21.13	R 32.67
2023	—	14.42	32.62	31.89	22.45	20.94	105.48	28.01	11.62	28.05	28.05	20.24	28.04
	Expenditures in million dollars												
1970	0.2	—	2.9	123.2	2.2	95.2	38.2	1,610.4	1.5	1,873.5	1,873.7	4.1	1,877.8
1975	(s)	—	1.4	338.4	4.1	285.7	65.9	2,822.2	2.2	3,519.9	3,519.9	5.5	3,525.4
1980	—	—	6.0	978.7	3.2	704.0	131.8	5,390.1	9.4	7,223.2	7,223.2	11.4	7,234.5
1985	—	—	10.7	945.5	16.5	92.2	151.9	5,164.9	6.9	6,388.6	6,451.2	24.8	6,476.0
1990	—	(s)	7.7	1,561.4	14.6	130.1	193.8	5,113.0	1.0	7,021.6	7,126.1	27.3	7,153.3
1995	—	0.3	9.1	1,156.0	13.8	226.7	195.1	5,421.1	0.6	7,022.4	7,022.7	26.8	7,049.5
2000	—	1.2	8.6	2,093.4	13.2	840.8	222.3	7,599.7	1.9	10,779.8	10,781.0	25.1	10,806.2
2005	—	3.1	9.1	3,840.1	25.0	2,871.9	284.7	11,209.5	1.0	18,241.3	18,244.4	29.6	18,274.1
2006	—	2.6	9.3	4,424.6	39.8	2,386.2	345.6	12,802.3	2.2	20,009.9	20,012.5	29.0	20,041.5
2007	—	2.3	9.4	4,773.8	32.7	2,643.2	383.5	14,124.1	1.8	21,968.5	21,970.8	35.1	22,005.9
2008	—	3.0	12.4	5,862.6	82.4	3,470.7	416.2	15,692.1	2.3	25,538.6	25,541.6	42.6	25,584.2
2009	—	1.7	6.1	R 3,801.4	45.0	1,788.1	380.6	11,111.5	1.1	R 17,133.9	R 17,135.7	44.2	R 17,179.9
2010	—	2.1	13.4	R 4,803.6	3.4	2,578.5	313.8	13,081.6	—	R 20,794.3	R 20,796.4	37.6	R 20,834.0
2011	—	3.0	18.3	R 6,626.0	3.5	3,571.0	362.1	15,881.2	—	R 26,462.1	R 26,465.1	35.2	R 26,500.3
2012	—	3.0	17.7	R 6,300.9	2.3	3,444.9	334.0	15,926.1	1.7	R 26,027.5	R 26,030.5	34.0	R 26,064.5
2013	—	R 3.2	13.9	R 6,592.3	3.5	3,380.5	341.5	15,627.8	1.6	R 25,961.0	R 25,964.3	30.6	R 25,994.8
2014	—	R 5.1	11.8	R 6,799.7	4.0	3,282.3	355.7	15,031.3	0.1	R 25,484.8	R 25,489.9	39.9	R 25,529.8
2015	—	R 5.0	11.0	R 5,332.4	3.1	2,062.3	396.2	10,747.9	0.1	R 18,553.0	R 18,558.0	35.7	R 18,593.6
2016	—	R 5.5	8.6	R 4,306.8	3.6	1,746.0	356.8	9,788.9	(s)	R 16,210.6	R 16,216.2	34.6	R 16,250.7
2017	—	R 2.2	10.0	R 5,130.7	6.8	2,162.6	339.0	10,914.6	—	R 18,563.8	R 18,566.0	33.1	R 18,599.0
2018	—	R 1.6	12.0	R 6,274.1	20.8	R 2,763.0	345.7	11,986.7	1.1	R 21,403.5	R 21,405.1	37.2	R 21,442.3
2019	—	R 1.5	11.2	R 5,578.4	19.0	R 2,566.0	R 326.6	11,055.5	—	R 19,556.9	R 19,558.4	39.4	R 19,597.7
2020	—	1.2	9.0	R 4,309.3	3.4	992.5	R 284.6	7,436.5	—	R 13,035.3	R 13,036.5	29.5	R 13,066.0
2021	—	1.0	13.1	R 5,954.5	4.8	R 2,158.3	R 321.9	11,405.2	0.4	R 19,858.2	R 19,859.1	29.2	R 19,888.3
2022	—	R 1.0	16.9	R 9,147.0	7.6	R 4,024.8	R 405.7	14,764.1	0.7	R 28,366.7	R 28,367.8	32.8	R 28,400.6
2023	—	2.6	14.5	7,522.5	7.1	3,307.7	320.0	13,253.9	0.5	24,426.3	24,428.9	28.6	24,457.5

[a] Transportation use of natural gas as vehicle fuel only.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET7. Electric power sector price and expenditure estimates, selected years, 1970-2023, Illinois

Year	Coal	Natural gas [a]	Petroleum: Distillate fuel oil	Petroleum: Petroleum coke	Petroleum: Residual fuel oil	Petroleum: Total	Nuclear fuel	Biomass: Wood and waste [b]	Electricity imports [c]	Total energy [d]
	Prices in dollars per million Btu									
1970	0.30	0.35	0.67	—	0.60	0.63	0.15	0.65	—	0.32
1975	0.75	1.13	2.21	—	1.35	1.63	0.18	—	—	0.69
1980	1.62	3.19	6.38	—	5.60	5.64	0.33	—	—	1.60
1985	2.18	5.19	6.05	—	6.03	6.03	0.64	—	—	1.68
1990	1.75	2.67	5.26	—	3.63	3.99	0.57	0.46	—	1.12
1995	1.63	1.68	3.87	0.62	2.70	2.60	0.51	0.87	—	1.04
2000	1.15	4.69	7.06	—	3.35	4.45	0.46	0.92	—	0.91
2005	1.17	8.78	12.72	0.93	6.83	8.14	0.44	0.25	16.53	1.05
2006	1.25	6.98	14.93	1.31	7.20	11.51	0.41	0.25	—	0.96
2007	1.33	7.10	18.30	—	7.55	17.79	0.43	2.42	18.25	1.09
2008	1.58	9.91	23.31	—	10.59	22.87	0.46	2.66	18.28	1.20
2009	1.62	4.60	13.94	—	7.50	13.90	0.56	2.20	12.10	1.15
2010	1.69	5.07	17.28	—	8.93	16.96	0.65	2.40	13.31	1.26
2011	1.72	5.15	23.09	—	—	23.09	0.69	2.44	11.53	1.30
2012	1.93	3.25	24.35	—	—	24.35	0.75	2.21	9.51	1.39
2013	1.88	4.82	23.49	—	—	23.49	0.81	2.26	—	1.42
2014	1.99	6.02	22.36	—	—	22.36	0.77	2.73	—	1.46
2015	1.92	3.71	14.05	—	—	14.05	0.72	0.85	—	1.35
2016	1.97	2.82	11.05	—	—	11.05	0.68	0.81	—	1.31
2017	1.85	3.24	13.39	—	—	13.39	0.74	0.70	9.18	1.33
2018	1.77	3.37	16.39	—	—	16.39	0.72	0.72	10.74	1.30
2019	1.97	2.94	15.71	—	—	15.71	0.67	0.74	—	1.29
2020	1.61	2.28	10.76	—	—	10.76	0.64	0.90	—	1.08
2021	1.72	4.16	17.54	—	—	17.54	0.66	0.84	—	1.33
2022	1.91	R 6.88	21.13	—	—	21.13	0.62	0.87	—	R 1.55
2023	2.09	2.84	23.88	—	—	23.88	0.63	0.71	—	1.21
	Expenditures in million dollars									
1970	180.2	47.7	10.3	—	12.2	22.5	4.1	(s)	—	254.5
1975	494.2	39.8	49.1	—	61.4	110.5	45.2	—	—	689.6
1980	1,151.8	62.5	31.3	—	449.3	480.6	99.4	—	—	1,794.2
1985	1,441.6	31.3	15.4	—	97.4	112.7	265.7	—	—	1,851.3
1990	1,035.5	25.2	15.0	—	37.0	52.1	432.4	1.1	—	1,546.2
1995	1,106.3	67.0	12.1	1.4	17.2	30.8	416.4	3.7	—	1,624.2
2000	1,007.3	225.7	14.9	—	16.7	31.7	425.5	10.1	—	1,700.2
2005	1,116.7	523.4	25.0	1.0	6.1	32.1	426.1	2.0	0.1	2,100.3
2006	1,184.5	305.1	17.3	0.4	1.4	19.1	400.6	2.0	—	1,911.2
2007	1,313.5	454.2	27.6	—	0.6	28.1	435.5	20.2	4.1	2,255.7
2008	1,581.1	349.3	35.4	—	0.6	36.0	453.5	25.3	3.3	2,448.6
2009	1,518.4	155.8	18.3	—	0.1	18.4	562.6	20.7	0.4	2,276.3
2010	1,634.8	235.9	19.7	—	0.4	20.1	650.2	22.7	(s)	2,563.8
2011	1,614.8	249.2	21.4	—	—	21.4	688.2	20.1	(s)	2,593.8
2012	1,647.7	293.4	19.2	—	—	19.2	758.2	18.2	0.2	2,736.8
2013	1,717.5	255.6	18.3	—	—	18.3	820.8	18.2	—	2,830.4
2014	1,798.2	259.9	21.6	—	—	21.6	785.7	22.3	—	2,887.6
2015	1,463.0	316.9	8.6	—	—	8.6	727.8	6.0	—	2,522.4
2016	1,223.3	419.7	8.5	—	—	8.5	705.3	5.5	—	2,362.3
2017	1,109.7	471.9	8.0	—	—	8.0	751.1	4.3	0.1	2,345.0
2018	1,102.3	481.1	10.0	—	—	10.0	737.0	4.6	0.9	2,335.9
2019	1,003.9	518.7	8.7	—	—	8.7	691.8	4.7	—	2,227.7
2020	502.6	547.0	4.7	—	—	4.7	666.8	5.4	—	1,726.4
2021	772.6	738.0	11.3	—	—	11.3	667.5	4.5	—	2,194.0
2022	815.7	R 1,025.3	10.2	—	—	10.2	641.0	3.9	—	R 2,496.1
2023	584.1	595.0	8.7	—	—	8.7	640.4	2.8	—	1,831.0

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[c] Electricity imported from Canada and Mexico.
[d] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET1. Primary energy, electricity, and total energy price and expenditure estimates, selected years, 1970-2023, Indiana

	Primary energy														Electric power sector [i,k,l]	Electricity [m]	Total energy [h,i,j]
	Coal				Petroleum								Biomass				
	Coking coal	Steam coal	Total	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Nuclear fuel	Wood and waste [g,h]	Total [h,i,j,k]			
Year	Prices in dollars per million Btu																
1970	0.44	0.32	0.36	0.68	1.03	1.86	0.74	2.98	0.57	1.46	2.06	—	2.19	0.94	0.26	5.15	1.45
1975	1.76	0.73	1.09	1.16	2.49	3.42	2.08	4.75	1.81	2.87	3.57	—	2.57	1.91	0.62	7.08	2.83
1980	2.13	1.31	1.53	2.88	6.85	6.22	6.38	10.00	3.63	6.27	7.90	—	2.93	3.67	1.30	12.32	5.65
1985	2.24	1.64	1.77	4.71	7.67	9.09	5.81	8.85	4.40	7.26	7.90	—	3.09	4.11	1.66	16.95	6.92
1990	1.84	1.37	1.46	4.26	7.50	10.16	5.62	8.74	2.66	5.42	7.54	—	2.49	3.75	1.38	15.75	6.74
1995	1.97	1.27	1.35	4.12	6.95	8.85	3.85	8.60	2.54	6.17	7.28	—	2.02	3.62	1.27	15.39	6.89
2000	1.71	1.10	1.18	5.39	9.62	12.27	6.51	11.52	3.72	6.79	10.00	—	1.99	4.39	1.13	15.24	8.23
2005	3.39	1.50	1.73	10.54	16.05	17.83	12.93	17.30	6.48	7.70	15.56	—	3.80	7.13	1.61	17.28	12.60
2006	3.76	1.60	1.84	10.41	18.21	19.71	14.56	19.63	7.94	9.63	17.73	—	3.36	7.75	1.64	19.00	13.91
2007	3.85	1.69	1.92	9.23	19.63	21.75	15.67	21.89	8.88	11.25	19.72	—	4.15	8.13	1.78	19.12	14.46
2008	4.61	2.04	2.28	11.02	26.32	25.81	23.05	25.45	13.01	13.44	24.37	—	4.36	9.73	2.15	20.84	17.08
2009	5.70	2.10	2.40	8.12	16.66	21.14	12.50	18.38	7.86	11.83	16.99	—	3.12	7.56	2.11	22.41	14.04
2010	6.20	2.21	2.61	6.51	21.61	21.80	16.09	21.81	9.42	R 18.76	R 21.32	—	3.54	R 8.19	2.28	22.55	R 15.02
2011	7.38	2.57	3.12	6.99	27.70	25.31	22.40	27.74	11.74	R 20.31	R 26.85	—	4.75	R 10.22	2.65	23.55	R 17.84
2012	6.88	2.67	3.25	6.20	28.47	20.39	22.80	28.32	13.95	R 19.96	R 27.25	—	4.56	R 10.49	2.66	24.40	R 18.16
2013	5.47	2.61	2.98	6.69	28.53	20.56	21.85	27.62	13.32	R 20.46	R 26.97	—	5.08	R 10.49	2.66	25.65	R 17.99
2014	4.96	2.61	2.88	R 7.43	R 27.58	24.80	20.67	26.41	12.88	R 20.00	R 26.09	—	R 5.24	R 10.38	2.76	26.63	R 18.07
2015	4.53	2.37	2.65	6.21	18.82	15.84	11.82	18.96	7.79	R 16.39	R 18.34	—	R 3.52	R 8.34	2.40	26.45	R 15.01
2016	3.62	2.32	2.47	5.00	16.06	15.27	9.58	16.86	5.32	R 19.85	R 16.43	—	R 2.93	R 7.34	2.37	27.11	R 13.81
2017	4.66	2.24	2.51	5.93	18.41	19.02	11.93	18.93	7.07	22.32	18.64	—	R 2.84	8.24	2.32	28.75	15.16
2018	4.83	2.19	2.48	5.79	22.14	20.16	15.47	20.98	9.32	22.05	21.16	—	R 3.50	8.60	2.35	28.68	15.87
2019	5.42	2.27	2.69	5.31	21.02	16.78	14.18	20.00	8.27	R 21.02	20.04	—	R 3.53	8.57	2.26	29.14	15.39
2020	4.72	2.21	2.61	4.89	17.11	15.14	9.42	16.41	5.58	R 20.54	16.64	—	R 2.39	7.58	2.08	29.19	14.19
2021	4.66	2.37	2.73	R 6.54	R 22.86	21.72	14.50	23.18	9.35	R 22.65	22.64	—	R 2.54	10.07	2.79	30.49	17.13
2022	7.46	2.89	3.56	R 8.18	R 35.03	23.55	25.80	30.53	15.74	R 33.16	31.76	—	R 4.06	R 13.63	R 3.83	34.31	22.01
2023	7.90	3.25	4.14	6.28	29.29	20.75	20.65	27.07	13.34	26.03	27.27	—	3.73	12.10	2.98	33.83	19.87
	Expenditures in million dollars																
1970	151.8	214.7	366.5	359.0	176.3	63.4	10.6	921.2	14.2	116.2	1,301.8	—	10.9	2,038.2	-136.5	657.3	2,558.9
1975	651.7	502.3	1,154.1	532.0	473.9	155.1	30.4	1,614.2	120.0	209.8	2,603.4	—	14.9	4,304.4	-372.6	1,252.3	5,184.0
1980	684.0	1,091.4	1,775.3	1,343.1	1,227.3	179.2	76.5	3,162.9	261.7	397.7	5,305.4	—	29.7	8,453.4	-951.4	2,524.5	10,026.4
1985	560.1	1,546.5	2,106.6	1,995.4	1,385.8	163.2	507.4	2,694.9	57.9	481.7	5,291.0	—	34.8	9,468.0	-1,359.6	3,647.8	11,756.3
1990	437.9	1,543.8	1,981.7	1,876.5	1,439.1	343.1	569.3	2,843.4	46.9	494.4	5,736.2	—	29.8	9,669.9	-1,404.9	3,926.7	12,191.6
1995	310.2	1,509.7	1,820.0	2,142.9	1,348.4	221.3	378.8	3,138.5	16.9	482.5	5,586.4	—	19.8	9,569.1	-1,384.3	4,515.4	12,700.1
2000	388.5	1,499.4	1,888.0	3,038.3	2,246.2	382.9	517.1	4,424.7	13.4	566.8	8,151.1	—	14.2	13,091.6	-1,452.0	5,021.2	16,660.8
2005	654.8	2,098.1	2,752.9	5,462.9	4,084.8	454.4	509.4	6,918.2	34.4	716.2	12,717.4	—	45.7	20,979.6	-2,105.0	6,199.7	25,074.3
2006	669.6	2,247.9	2,917.5	5,008.4	4,628.7	465.0	649.1	7,846.5	53.2	858.6	14,501.1	—	44.8	22,473.6	-2,145.2	6,751.8	27,080.2
2007	625.7	2,386.7	3,012.4	4,815.9	4,899.6	596.9	662.1	8,623.2	33.1	905.3	15,720.2	—	48.8	23,602.1	-2,340.5	7,039.9	28,301.6
2008	680.5	2,870.6	3,551.1	5,848.5	6,083.4	742.8	818.7	9,636.5	59.4	990.6	18,331.4	—	71.2	27,803.7	-2,832.7	7,498.3	32,469.4
2009	649.1	2,624.9	3,274.0	3,963.1	R 3,348.5	631.5	528.0	6,936.0	11.4	867.7	R 12,323.0	—	48.7	R 19,609.0	-2,480.6	7,477.7	R 24,606.1
2010	903.3	2,883.4	3,786.7	3,583.0	R 4,596.6	565.8	346.2	8,277.8	11.9	R 970.1	R 14,768.3	—	59.5	R 22,197.8	-2,823.4	8,035.5	R 27,409.9
2011	1,111.7	3,045.5	4,157.2	4,220.2	R 6,207.0	654.8	494.0	10,077.6	18.4	R 1,098.4	R 18,550.2	—	64.9	R 26,992.5	-3,152.9	8,373.1	R 32,212.7
2012	1,133.9	2,749.2	3,883.1	3,874.9	R 6,268.6	422.4	498.9	10,221.9	19.7	R 1,088.9	R 18,520.5	—	61.4	R 26,340.9	-2,925.2	8,611.0	R 32,026.8
2013	845.0	2,723.8	3,568.9	4,405.2	R 6,787.6	516.2	481.5	10,112.4	12.2	R 1,025.6	R 18,935.4	—	73.0	R 26,985.7	-2,881.9	9,112.0	R 33,215.8
2014	683.2	2,830.7	3,513.9	R 5,219.5	R 6,947.8	592.7	497.7	9,651.8	11.4	R 1,053.5	R 18,755.0	—	R 73.6	R 27,564.0	-3,135.4	9,582.3	R 34,010.9
2015	589.9	2,081.5	2,671.4	R 4,442.3	R 4,615.4	301.8	303.3	7,172.6	8.2	R 1,037.0	R 13,438.3	—	R 51.8	R 20,608.2	-2,367.7	9,298.4	R 27,538.9
2016	400.8	1,945.3	2,346.1	R 3,787.6	R 3,766.2	278.2	260.4	6,446.0	9.2	R 881.3	R 11,641.2	—	R 42.3	R 17,817.7	-2,301.1	9,454.5	R 24,971.1
2017	493.3	1,841.4	2,334.7	4,299.8	R 3,949.3	336.1	294.9	7,212.3	25.6	850.6	R 12,668.8	—	R 40.6	R 19,344.4	-2,118.8	9,559.2	R 26,784.8
2018	527.2	1,920.5	2,447.7	5,023.5	R 4,771.6	426.1	396.3	7,824.7	13.5	973.2	R 14,405.4	—	R 59.5	R 21,938.8	-2,449.4	10,050.4	R 29,539.7
2019	605.0	1,608.9	2,213.9	4,817.7	R 4,674.7	395.5	R 375.0	7,303.6	13.9	R 998.4	R 13,761.2	—	R 58.2	R 20,850.9	-2,035.8	10,007.7	R 28,822.9
2020	504.2	1,242.9	1,747.1	4,145.9	R 3,547.2	337.6	R 176.5	5,506.3	7.3	R 866.6	R 10,441.5	—	R 37.5	R 16,372.0	-1,606.3	9,536.6	R 24,302.3
2021	555.5	1,505.0	2,060.5	R 5,509.4	R 5,144.4	458.1	R 361.4	8,486.6	21.1	R 1,060.7	R 15,532.3	—	R 40.5	R 23,142.8	-2,288.4	10,224.7	R 31,079.1
2022	789.5	1,770.3	2,559.8	R 7,248.9	R 7,874.2	525.4	R 575.1	10,984.8	36.4	R 1,421.5	R 21,417.3	—	R 63.3	R 31,289.3	R -3,173.6	11,539.8	R 39,655.5
2023	929.5	1,611.9	2,541.4	5,609.7	6,448.3	441.7	464.4	9,758.1	25.5	1,210.1	18,348.1	—	55.6	26,554.9	-2,221.4	10,908.4	35,241.9

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[l] Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
[m] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.
Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET2. Total end-use energy price and expenditure estimates, selected years, 1970-2023, Indiana

Year	Primary energy											Electricity [k]	Total energy [h,i,j]
			Petroleum							Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g,h]	Total [h,i,j]		
	Prices in dollars per million Btu												
1970	0.48	0.70	1.03	1.86	0.74	2.98	0.56	1.48	2.07	2.19	1.16	5.15	1.45
1975	1.68	1.17	2.50	3.42	2.08	4.75	1.82	2.87	3.60	2.57	2.38	7.08	2.83
1980	1.99	2.88	6.87	6.22	6.38	10.00	3.63	6.27	7.91	2.93	4.78	12.32	5.65
1985	2.03	4.71	7.69	9.09	5.81	8.85	4.40	7.26	7.90	3.09	5.47	16.95	6.92
1990	1.72	4.29	7.53	10.16	5.62	8.74	2.66	5.73	7.60	2.49	5.30	15.75	6.74
1995	1.76	4.14	6.98	8.85	3.85	8.60	2.54	6.21	7.30	2.09	5.28	15.39	6.89
2000	1.57	5.42	9.66	12.27	6.51	11.52	3.72	7.35	10.09	2.22	6.86	15.24	8.23
2005	3.03	10.69	16.11	17.83	12.93	17.30	6.48	7.78	15.59	3.83	11.57	17.28	12.60
2006	3.24	10.59	18.23	19.71	14.56	19.63	7.94	9.63	17.73	3.94	12.78	19.00	13.91
2007	3.28	9.37	19.66	21.75	15.67	21.89	8.88	11.25	19.72	5.04	13.38	19.12	14.46
2008	3.87	11.13	26.35	25.81	23.05	25.45	13.01	13.44	24.37	5.29	16.20	20.84	17.08
2009	4.24	8.41	16.69	21.14	12.50	18.38	7.86	11.85	17.00	3.74	12.07	22.41	14.04
2010	4.69	6.72	21.65	21.80	16.09	21.81	9.42	R 18.76	R 21.33	4.26	R 13.20	22.55	R 15.02
2011	6.07	7.42	27.75	25.31	22.40	27.74	11.74	R 23.07	R 27.13	6.21	R 16.44	23.55	R 17.84
2012	6.21	6.94	28.50	20.39	22.80	28.32	13.95	R 21.80	R 27.45	5.93	R 16.60	24.40	R 18.16
2013	5.01	7.07	28.57	20.56	21.85	27.62	13.32	R 25.08	R 27.34	6.69	R 16.16	25.65	R 17.99
2014	4.60	7.75	27.63	24.80	20.67	26.41	12.88	R 24.80	R 26.48	R 6.92	R 16.05	26.63	R 18.07
2015	4.29	6.97	18.85	15.84	11.82	18.96	7.79	R 19.65	R 18.62	R 4.63	R 12.30	26.45	R 15.01
2016	3.50	5.66	16.09	15.27	9.58	16.86	5.32	R 22.00	R 16.54	R 3.82	R 10.63	27.11	R 13.81
2017	4.27	6.58	18.44	19.02	11.93	18.93	7.07	22.32	18.65	R 3.83	12.01	28.75	15.16
2018	4.44	6.57	22.18	20.16	15.47	20.98	9.32	22.05	21.17	R 4.50	12.89	28.68	15.87
2019	5.06	6.26	21.06	16.78	14.18	20.00	8.27	R 21.02	20.05	R 4.65	12.30	29.14	15.39
2020	4.51	6.04	17.15	15.14	9.42	16.41	5.58	R 20.54	16.66	R 3.09	10.65	29.19	14.19
2021	4.49	R 7.36	22.92	21.72	14.50	23.18	9.35	R 22.65	22.65	R 3.27	R 14.11	30.49	17.13
2022	6.89	R 8.91	R 35.08	23.55	25.80	30.53	15.74	R 33.16	31.77	R 5.09	19.18	34.31	22.01
2023	7.74	7.77	29.33	20.75	20.65	27.07	13.34	26.03	27.28	4.37	16.77	33.83	19.87
	Expenditures in million dollars												
1970	242.7	348.7	175.2	63.4	10.6	921.2	13.2	115.8	1,299.3	10.9	1,901.7	657.3	2,558.9
1975	810.9	523.0	468.0	155.1	30.4	1,614.2	105.4	209.8	2,582.9	14.9	3,931.7	1,252.3	5,184.0
1980	854.1	1,338.3	1,201.9	179.2	76.5	3,162.9	261.7	397.7	5,279.9	29.7	7,502.0	2,524.5	10,026.4
1985	765.9	1,990.8	1,371.7	163.2	507.4	2,694.9	57.9	481.7	5,276.9	34.8	8,108.5	3,647.8	11,756.3
1990	610.6	1,859.4	1,426.4	343.1	569.3	2,843.4	46.9	490.4	5,719.5	29.8	8,264.9	3,926.7	12,191.6
1995	465.1	2,122.1	1,340.4	221.3	378.8	3,138.5	16.9	482.2	5,578.1	19.4	8,184.7	4,515.4	12,700.1
2000	527.6	2,972.6	2,225.5	382.9	517.1	4,424.7	13.4	562.2	8,125.8	13.5	11,639.5	5,021.2	16,660.8
2005	976.9	5,153.0	4,068.3	454.4	509.4	6,918.2	34.4	714.9	12,699.6	45.1	18,874.6	6,199.7	25,074.3
2006	1,006.1	4,800.8	4,605.2	465.0	649.1	7,846.5	53.2	858.6	14,477.6	43.9	20,328.4	6,751.8	27,080.2
2007	986.1	4,532.6	4,874.5	596.9	662.1	8,623.2	33.1	905.3	15,695.1	47.9	21,261.7	7,039.9	28,301.6
2008	1,090.5	5,518.8	6,043.7	742.8	818.7	9,636.5	59.4	990.6	18,291.7	69.9	24,971.0	7,498.3	32,469.4
2009	985.6	3,791.5	R 3,330.0	631.5	528.0	6,936.0	11.4	867.5	R 12,304.3	47.0	R 17,128.4	7,477.7	R 24,606.1
2010	1,290.4	3,282.3	R 4,572.0	565.8	346.2	8,277.8	11.9	R 970.1	R 14,743.8	58.0	R 19,374.4	8,035.5	R 27,409.9
2011	1,464.2	3,839.1	R 6,170.6	654.8	494.0	10,077.6	18.4	R 1,058.5	R 18,473.9	62.5	R 23,839.6	8,373.1	R 32,212.7
2012	1,366.0	3,524.4	R 6,240.8	422.4	498.9	10,221.9	19.7	R 1,062.3	R 18,466.0	59.3	R 23,415.8	8,611.0	R 32,026.8
2013	1,073.6	4,071.3	R 6,755.0	516.2	481.5	10,112.4	12.2	R 1,011.0	R 18,888.2	70.7	R 24,103.8	9,112.0	R 33,215.8
2014	864.8	R 4,786.3	R 6,909.0	592.7	497.7	9,651.8	11.4	R 1,043.5	R 18,706.2	R 71.2	R 24,428.6	9,582.3	R 34,010.9
2015	733.3	R 4,051.2	R 4,594.4	301.8	303.3	7,172.6	8.2	R 1,026.5	R 13,406.9	R 49.2	R 18,240.5	9,298.4	R 27,538.9
2016	597.2	R 3,254.1	R 3,754.6	278.2	260.4	6,446.0	9.2	R 876.9	R 11,625.2	R 40.0	R 15,516.6	9,454.5	R 24,971.1
2017	684.2	3,849.3	R 3,934.5	336.1	294.9	7,212.3	25.6	850.6	R 12,653.9	R 38.2	R 17,225.6	9,559.2	R 26,784.8
2018	698.8	4,348.5	R 4,751.4	426.1	396.3	7,824.7	13.5	973.2	R 14,385.2	R 56.8	R 19,489.3	10,050.4	R 29,539.7
2019	806.9	4,211.4	R 4,654.7	395.5	R 375.0	7,303.6	13.9	R 998.4	R 13,741.1	R 55.7	R 18,815.2	10,007.7	R 28,822.9
2020	654.8	3,648.2	R 3,533.6	337.6	R 176.5	5,506.3	7.3	R 866.6	R 10,428.0	R 34.9	R 14,765.7	9,536.6	R 24,302.3
2021	700.8	R 4,607.1	R 5,120.0	458.1	R 361.4	8,486.6	21.1	R 1,060.7	R 15,507.9	R 38.6	R 20,854.4	10,224.7	R 31,079.1
2022	958.6	R 5,714.7	R 7,837.7	525.4	R 575.1	10,984.8	36.4	R 1,421.5	R 21,380.8	R 61.5	R 28,115.7	11,539.8	R 39,655.5
2023	1,153.8	4,802.4	6,423.2	441.7	464.4	9,758.1	25.5	1,210.1	18,323.1	54.1	24,333.5	10,908.4	35,241.9

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. · Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2023, Indiana

Year	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
	Prices in dollars per million Btu									
1970	1.10	1.00	1.21	2.07	1.59	1.52	0.57	1.17	6.56	2.00
1975	2.52	1.47	2.57	3.92	3.11	3.04	1.12	2.00	8.55	3.19
1980	2.43	3.19	7.18	7.37	8.55	7.32	2.87	4.09	13.86	6.38
1985	2.77	5.50	7.50	8.76	9.50	8.12	3.24	5.79	20.37	9.74
1990	2.62	5.29	7.52	10.09	7.82	8.85	3.56	5.74	20.14	10.03
1995	2.43	5.30	6.18	9.50	8.75	8.30	2.90	5.64	19.75	10.18
2000	2.41	6.26	9.15	12.70	9.18	11.71	4.41	7.00	20.12	11.37
2005	3.69	11.92	15.43	18.08	15.49	17.27	6.91	12.44	21.98	16.18
2006	4.00	12.83	17.78	19.95	19.69	19.50	7.96	13.49	24.10	17.96
2007	3.74	11.04	19.68	21.80	22.33	21.53	8.79	12.21	24.21	17.13
2008	—	12.49	24.09	26.11	23.64	25.78	10.83	14.19	26.01	18.77
2009	—	10.65	17.03	21.72	23.92	21.41	8.13	11.99	27.85	18.31
2010	—	8.52	20.78	22.62	25.41	22.56	9.60	10.21	28.01	17.73
2011	—	9.35	27.62	26.39	28.76	26.54	11.54	11.45	29.47	19.12
2012	—	8.83	27.53	22.98	30.16	23.50	12.85	10.40	30.85	19.75
2013	—	8.31	28.55	22.48	30.83	23.04	12.58	9.79	32.22	18.91
2014	—	8.86	27.60	27.61	33.18	27.70	12.27	10.59	33.58	19.57
2015	—	8.72	18.07	18.79	17.13	18.71	8.45	9.56	33.91	19.78
2016	—	7.65	15.64	18.35	13.66	18.05	7.22	8.51	34.54	19.87
2017	—	8.59	17.81	22.08	17.08	21.69	8.08	9.66	36.03	20.94
2018	—	8.34	19.43	22.64	26.31	22.42	8.94	9.58	35.94	20.39
2019	—	8.25	18.92	19.92	23.04	19.87	8.60	9.34	36.87	20.36
2020	—	8.17	16.21	18.29	14.96	18.11	7.11	R 9.04	37.59	R 20.94
2021	—	9.52	20.47	24.31	23.63	23.96	R 8.53	R 10.77	39.20	R 22.87
2022	—	11.04	30.35	27.10	41.05	27.54	R 13.20	12.40	42.77	R 24.86
2023	—	11.10	27.20	25.00	36.66	25.37	12.07	12.45	43.78	25.81
	Expenditures in million dollars									
1970	10.0	160.3	56.3	51.4	16.6	124.4	1.2	295.8	301.8	597.7
1975	15.0	237.0	129.4	103.0	12.6	245.0	2.3	499.3	477.5	976.8
1980	2.5	516.3	225.8	97.4	23.8	347.0	12.9	878.7	910.8	1,789.4
1985	7.1	810.4	116.1	80.8	25.1	221.9	15.1	1,054.6	1,376.4	2,430.9
1990	6.5	756.4	87.5	139.0	12.3	238.8	18.1	1,019.7	1,519.3	2,539.0
1995	2.0	864.4	53.1	141.0	10.7	204.8	8.0	1,079.2	1,790.1	2,869.3
2000	1.7	1,035.0	51.9	252.4	18.7	323.1	8.3	1,368.1	1,966.8	3,334.9
2005	1.7	1,803.2	80.7	271.5	23.0	375.2	27.8	2,207.9	2,522.6	4,730.5
2006	0.5	1,665.8	63.3	262.9	19.4	345.6	28.4	2,040.2	2,655.4	4,695.7
2007	1.5	1,609.3	54.3	362.0	16.4	432.6	34.7	2,078.1	2,862.3	4,940.4
2008	—	1,931.7	82.2	526.4	9.5	618.1	47.8	2,597.6	3,015.4	5,613.0
2009	—	1,510.6	29.9	417.3	17.5	464.7	31.1	2,006.5	3,093.2	5,099.7
2010	—	1,194.5	31.0	391.4	15.1	437.5	39.4	1,671.5	3,350.4	5,021.8
2011	—	1,249.6	44.1	438.8	10.4	493.4	46.0	1,789.0	3,410.4	5,199.4
2012	—	1,032.8	37.8	273.4	3.1	314.3	42.8	1,389.8	3,469.9	4,859.7
2013	—	1,218.1	R 35.1	316.5	4.0	355.6	54.6	R 1,628.4	3,672.7	R 5,301.1
2014	—	1,412.9	32.9	393.8	7.8	R 434.5	53.9	1,901.3	3,861.6	5,762.9
2015	—	1,186.8	R 22.4	218.9	2.8	244.0	33.4	R 1,464.2	3,753.1	R 5,217.3
2016	—	990.3	14.2	204.3	3.3	221.8	27.6	R 1,239.7	3,892.5	5,132.1
2017	—	1,107.2	16.8	237.6	1.9	256.3	R 26.0	R 1,389.5	3,878.3	R 5,267.8
2018	—	1,257.5	22.4	306.2	2.7	R 331.3	R 37.4	R 1,626.2	4,239.9	R 5,866.0
2019	—	1,239.6	R 24.3	286.5	3.4	R 314.2	R 35.4	R 1,589.1	4,182.9	R 5,772.0
2020	—	1,149.2	R 17.2	233.2	1.9	R 252.3	R 15.7	R 1,417.1	4,217.0	R 5,634.1
2021	—	1,316.4	24.1	295.6	3.4	R 323.1	R 19.4	R 1,658.9	4,476.5	R 6,135.4
2022	—	1,665.4	37.2	326.0	5.4	R 368.7	R 37.9	R 2,072.0	4,970.2	R 7,042.2
2023	—	1,439.0	30.3	307.3	8.1	345.7	29.5	1,814.2	4,741.4	6,555.5

[a] Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2023, Indiana

Year	Primary energy										Electricity [j]	Total energy [g,h,i]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f,g]	Total [g,h,i]		
	Prices in dollars per million Btu											
1970	0.52	0.83	1.04	1.26	0.81	2.98	0.70	1.09	0.57	0.87	6.58	1.81
1975	1.36	1.26	2.39	2.55	2.41	4.75	1.74	2.25	1.12	1.55	8.53	3.01
1980	1.58	2.99	6.66	4.88	6.14	10.00	4.35	5.50	2.87	3.67	13.36	6.15
1985	1.61	5.00	6.06	8.53	9.50	8.85	4.40	6.38	3.24	5.00	17.51	8.64
1990	1.45	4.52	5.31	9.28	7.82	8.74	2.64	6.68	1.74	4.43	17.95	9.44
1995	1.44	4.33	4.21	7.70	8.75	8.60	2.49	5.50	1.22	4.20	17.60	9.34
2000	1.27	5.60	7.09	10.95	9.18	11.52	4.26	8.30	1.21	5.53	17.67	10.26
2005	2.48	10.92	13.84	16.32	15.49	17.30	6.37	14.26	3.02	10.58	19.24	14.51
2006	2.55	11.34	15.93	18.12	19.69	19.63	—	16.73	2.68	11.52	21.14	16.14
2007	2.60	9.97	17.41	19.57	22.33	21.89	9.81	18.60	5.52	10.50	21.37	15.73
2008	3.02	11.00	24.74	23.30	23.64	25.45	15.54	24.41	3.46	11.64	22.91	16.49
2009	3.25	9.04	14.48	18.81	23.92	18.38	8.06	16.80	2.23	9.30	24.38	15.88
2010	3.10	7.46	17.95	19.79	25.41	21.81	—	19.73	2.51	8.07	24.55	15.60
2011	3.69	7.94	24.48	23.15	28.76	27.74	—	25.21	2.96	9.13	25.72	16.73
2012	6.00	7.60	25.03	17.04	30.16	28.32	—	24.32	2.62	9.03	26.79	17.73
2013	3.22	7.48	24.71	18.15	30.83	27.62	—	23.65	2.83	8.73	28.14	17.50
2014	3.20	8.05	23.03	20.39	33.18	26.41	16.10	23.44	R 3.19	9.19	29.19	17.78
2015	5.14	7.44	13.85	11.41	17.13	18.96	10.37	16.17	R 2.34	8.52	28.66	17.59
2016	5.06	6.32	11.27	10.61	13.66	16.86	—	14.28	R 1.67	7.30	29.34	17.43
2017	5.71	7.23	13.95	14.55	17.08	18.93	—	16.72	R 1.53	8.29	30.91	18.55
2018	5.80	7.05	17.18	15.99	26.31	20.98	11.22	18.78	R 1.76	8.43	31.06	18.12
2019	6.65	6.63	15.84	12.19	23.04	20.00	11.43	16.89	R 2.19	7.95	32.33	18.01
2020	6.71	6.52	10.70	11.36	14.96	16.41	8.46	13.99	R 1.60	7.33	32.84	R 18.03
2021	6.53	7.41	17.05	18.58	23.63	23.18	12.65	20.43	R 1.61	8.98	33.93	R 19.16
2022	7.51	9.04	28.58	19.71	41.05	30.53	20.22	27.51	R 2.27	11.36	37.68	21.76
2023	9.88	8.47	21.77	15.31	36.66	27.07	18.15	23.49	2.27	10.24	36.79	21.42
	Expenditures in million dollars											
1970	3.7	64.5	16.9	4.6	0.8	3.9	3.7	29.9	(s)	98.2	146.4	244.6
1975	19.0	87.7	41.9	9.8	1.0	3.0	18.0	73.6	(s)	180.4	264.0	444.4
1980	6.0	206.9	77.0	9.5	1.1	11.7	66.5	165.8	0.3	379.1	475.1	854.2
1985	14.6	350.9	96.7	11.5	7.2	16.4	10.7	142.5	0.4	508.6	732.3	1,241.0
1990	14.3	309.6	38.5	18.7	1.5	25.7	1.0	85.5	3.7	413.5	987.2	1,400.7
1995	8.0	362.5	27.0	16.8	3.5	7.8	0.5	55.6	3.7	429.8	1,120.5	1,550.3
2000	7.3	518.8	55.5	32.0	2.5	5.2	(s)	95.2	3.7	624.9	1,270.6	1,895.6
2005	13.1	847.5	102.6	36.3	4.1	21.5	4.5	169.0	11.0	1,040.7	1,573.2	2,613.8
2006	3.0	819.6	123.9	31.6	4.4	21.8	—	181.8	9.9	1,014.2	1,719.0	2,733.1
2007	9.2	770.7	100.3	36.5	3.5	31.0	0.2	171.6	6.9	958.4	1,805.8	2,764.2
2008	23.7	945.3	169.9	86.1	1.8	49.6	0.2	307.6	15.9	1,292.5	1,920.6	3,213.1
2009	24.2	723.1	80.2	64.3	2.3	66.7	0.4	214.0	9.5	970.7	1,970.8	2,941.6
2010	24.4	572.9	73.5	46.0	3.8	66.1	—	189.4	11.4	798.1	2,040.8	2,838.8
2011	25.5	611.0	78.3	69.2	1.5	90.7	—	239.6	11.6	887.7	2,115.5	3,003.2
2012	26.5	512.6	96.2	35.9	0.6	88.4	—	221.1	11.7	771.9	2,195.8	2,967.7
2013	9.7	626.9	R 94.5	52.2	0.6	81.1	—	R 228.3	11.0	R 875.9	2,328.2	R 3,204.2
2014	10.1	744.6	R 110.5	50.2	3.4	75.6	(s)	R 239.7	R 11.2	R 1,005.5	2,403.0	3,408.6
2015	7.1	590.2	R 62.9	28.4	1.2	151.8	(s)	R 244.3	R 9.6	R 851.2	2,349.2	R 3,200.3
2016	7.7	485.6	R 50.2	21.9	1.1	136.8	—	R 209.9	R 7.0	R 710.2	2,425.3	R 3,135.5
2017	7.4	566.3	R 56.8	31.4	0.8	136.6	—	R 225.6	R 6.1	R 805.5	2,494.6	R 3,300.1
2018	8.2	635.2	R 76.6	51.4	0.9	154.1	0.5	R 283.6	R 7.3	R 934.3	2,576.0	R 3,510.3
2019	9.3	615.1	R 79.1	47.0	1.3	148.3	0.1	R 275.7	R 8.0	R 908.0	2,593.9	R 3,501.9
2020	5.2	558.5	30.2	37.9	0.5	122.3	0.1	R 191.1	R 6.0	R 760.9	2,465.1	R 3,225.9
2021	7.0	690.4	R 68.7	71.0	1.3	174.2	0.2	R 315.4	R 6.0	R 1,018.8	2,653.8	R 3,672.7
2022	9.5	910.2	R 118.5	78.5	2.1	264.4	0.4	R 463.8	R 8.6	R 1,392.2	3,020.3	R 4,412.5
2023	5.2	755.9	82.0	41.3	3.1	208.3	0.3	334.9	8.7	1,104.8	2,889.4	3,994.3

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[g] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[j] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: Expenditure totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2023, Indiana

Year	Primary energy												Electricity [i]	Total energy [f,g,h]
	Coal			Natural gas [a]	Petroleum						Biomass	Total [f,g,h]		
	Coking coal	Steam coal	Total		Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e,f]			
	Prices in dollars per million Btu													
1970	0.44	0.52	0.47	0.47	0.74	1.32	2.98	0.50	1.23	1.10	3.38	0.58	3.52	0.76
1975	1.76	1.36	1.68	0.91	2.24	2.77	4.75	1.86	2.51	2.37	3.38	1.64	5.67	2.02
1980	2.13	1.58	1.99	2.63	5.57	5.31	10.00	3.43	5.47	4.87	2.97	2.73	11.00	3.66
1985	2.24	1.61	2.04	4.04	6.15	9.58	8.85	4.40	6.30	6.40	2.97	3.33	14.54	4.83
1990	1.84	1.45	1.72	3.57	5.89	10.33	8.74	2.64	4.80	5.54	1.68	3.07	11.94	4.34
1995	1.97	1.44	1.76	3.37	4.81	7.83	8.60	2.49	5.23	5.31	2.20	3.07	11.54	4.57
2000	1.71	1.27	1.57	4.88	7.85	11.65	11.52	4.26	6.26	7.20	1.35	3.75	11.16	5.07
2005	3.39	2.48	3.04	9.88	14.66	17.68	17.30	6.37	6.33	9.82	1.55	6.80	12.96	7.94
2006	3.76	2.55	3.25	9.21	16.49	19.59	19.63	8.03	7.93	11.35	1.45	6.97	14.51	8.39
2007	3.85	2.60	3.28	8.26	18.10	22.05	21.89	9.81	9.25	13.65	1.47	7.14	14.33	8.52
2008	4.61	3.06	3.90	10.35	24.75	26.36	25.45	15.65	11.20	16.95	1.48	8.82	16.01	10.23
2009	5.70	2.81	4.27	6.81	14.40	20.61	18.38	8.06	9.65	12.27	1.42	6.87	17.02	8.88
2010	6.20	2.99	4.74	5.58	18.62	20.22	21.81	11.77	R 15.11	R 16.99	1.45	R 6.70	17.22	R 8.77
2011	7.38	3.90	6.14	6.45	23.91	23.34	27.74	15.77	R 18.57	R 21.50	2.28	R 8.31	18.07	R 10.27
2012	6.88	4.03	6.21	6.12	25.15	16.74	28.32	17.07	R 17.69	R 20.98	2.21	R 8.23	18.58	R 10.31
2013	5.47	3.87	5.04	6.45	24.39	17.94	27.62	16.84	R 20.28	R 22.08	2.15	R 7.87	19.63	R 10.21
2014	4.96	3.66	4.63	7.19	22.60	20.36	26.41	16.10	R 19.92	R 21.35	2.55	R 8.21	20.42	R 10.71
2015	4.53	3.48	4.29	6.22	13.71	10.66	18.96	10.37	R 15.33	R 14.70	2.42	R 6.88	20.11	R 9.56
2016	3.62	3.24	3.49	4.82	11.58	9.80	16.86	7.39	R 17.14	R 14.38	2.20	R 5.63	20.44	R 8.58
2017	4.66	3.45	4.25	5.76	13.97	13.75	18.93	9.89	17.76	15.89	2.20	6.65	22.10	9.57
2018	4.83	3.49	4.43	5.83	17.27	15.18	20.98	11.22	17.97	17.70	2.81	6.99	21.63	9.67
2019	5.42	4.16	5.05	5.48	16.89	11.36	20.00	11.43	R 17.17	R 16.87	2.94	6.90	21.57	9.53
2020	4.72	3.88	4.50	5.14	12.45	10.52	16.41	8.46	R 16.59	R 14.51	2.48	6.24	20.46	R 8.89
2021	4.66	3.87	4.48	6.56	17.58	17.68	23.18	12.65	R 18.42	R 18.32	2.27	7.62	21.64	10.18
2022	7.46	4.97	6.88	8.02	27.67	18.75	30.53	20.22	R 27.80	R 27.24	R 2.77	R 10.36	25.35	R 13.14
2023	7.90	7.11	7.74	6.49	22.39	14.32	27.07	18.15	21.66	21.75	2.61	8.85	24.16	11.52
	Expenditures in million dollars													
1970	151.8	76.9	228.6	123.9	43.8	6.9	35.0	8.2	75.6	169.5	9.7	531.7	209.0	740.8
1975	651.7	125.1	776.8	198.3	121.5	41.0	31.5	84.2	157.9	436.1	12.6	1,423.8	510.8	1,934.6
1980	684.0	161.6	845.6	615.0	162.6	70.8	39.5	190.3	300.7	763.9	16.5	2,241.0	1,138.6	3,379.5
1985	560.1	184.1	744.2	829.5	167.0	65.2	41.9	46.2	360.2	680.5	19.3	2,274.2	1,539.1	3,813.3
1990	437.9	151.9	589.8	793.3	181.5	179.9	28.7	42.4	373.7	806.2	8.0	2,197.7	1,419.5	3,617.2
1995	310.2	144.9	455.1	894.4	133.1	59.3	38.0	12.4	372.8	615.6	7.8	1,972.8	1,603.9	3,576.7
2000	388.5	130.1	518.6	1,416.2	249.5	95.3	35.4	7.3	433.2	820.6	1.6	2,757.1	1,782.7	4,539.8
2005	654.8	307.2	962.0	2,501.0	593.6	134.1	125.2	21.6	542.4	1,416.9	6.4	4,886.3	2,102.4	6,988.7
2006	669.6	333.1	1,002.6	2,314.5	562.1	158.8	149.1	44.9	663.8	1,578.7	5.6	4,901.5	2,375.7	7,277.2
2007	625.7	349.8	975.4	2,151.8	647.9	186.1	285.1	18.6	696.4	1,834.1	6.4	4,967.7	2,369.9	7,337.6
2008	680.5	386.3	1,066.8	2,640.8	830.2	104.7	307.2	34.9	776.5	2,053.6	6.2	5,767.4	2,560.5	8,327.9
2009	649.1	312.2	961.3	1,557.6	392.6	134.1	214.2	6.2	664.2	1,411.3	6.4	3,936.6	2,411.7	6,348.3
2010	903.3	362.7	1,266.0	1,514.6	429.8	125.3	144.4	5.4	R 701.4	R 1,406.4	7.1	R 4,194.2	2,642.5	R 6,836.7
2011	1,111.7	327.0	1,438.7	1,978.3	690.1	142.6	183.2	3.7	R 763.8	R 1,783.4	4.9	R 5,205.2	2,845.1	R 8,050.3
2012	1,133.9	205.6	1,339.5	1,978.8	760.5	110.5	195.5	8.5	R 789.2	R 1,864.2	4.9	R 5,187.4	2,943.4	R 8,130.8
2013	845.0	218.9	1,063.9	2,226.0	647.3	143.2	190.3	4.7	R 729.8	R 1,715.2	5.0	R 5,010.1	3,108.9	R 8,119.0
2014	683.2	171.6	854.8	2,627.7	694.2	138.0	122.6	4.5	R 745.9	R 1,705.1	6.1	R 5,193.7	3,315.6	R 8,509.3
2015	589.9	136.3	726.2	2,273.0	428.4	48.6	95.8	4.3	R 726.5	R 1,303.5	6.2	R 4,308.9	3,194.0	R 7,502.9
2016	400.8	188.7	589.5	1,776.6	359.4	44.6	94.1	3.8	R 604.3	R 1,106.2	5.4	R 3,477.7	3,134.7	R 6,612.4
2017	493.3	183.5	676.9	2,174.3	477.7	61.9	102.9	7.7	606.1	1,256.3	6.1	4,113.6	3,184.0	7,297.6
2018	527.2	163.3	690.6	2,455.7	582.0	63.4	115.2	6.5	726.6	1,493.7	12.1	4,652.1	3,232.4	7,884.4
2019	605.0	192.6	797.6	2,356.7	637.2	58.5	106.5	4.1	R 752.7	R 1,559.0	12.4	R 4,725.7	3,228.7	R 7,954.4
2020	504.2	145.3	649.5	1,940.5	400.7	63.8	88.3	0.6	R 645.2	R 1,198.6	13.1	R 3,801.8	2,852.6	R 6,654.4
2021	555.5	138.2	693.7	2,573.4	585.4	88.0	124.5	7.3	R 795.9	R 1,601.1	13.1	R 4,881.4	3,092.6	R 7,974.0
2022	789.5	159.7	949.2	3,109.4	931.0	112.0	168.4	11.9	R 1,087.0	R 2,310.3	R 15.0	R 6,383.9	3,547.7	R 9,931.6
2023	929.5	219.1	1,148.6	2,581.3	735.5	85.2	147.5	8.8	942.1	1,919.1	15.9	5,665.0	3,276.2	8,941.2

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[i] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.
Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET6. Transportation sector energy price and expenditure estimates, selected years, 1970-2023, Indiana

Year	Primary energy											Electricity [g]	Total energy [f]
			Petroleum										
	Coal	Natural gas[a]	Aviation gasoline	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Lubricants	Motor gasoline [e]	Residual fuel oil	Total	Total [f]		
	Prices in dollars per million Btu												
1970	0.52	—	2.17	1.23	1.26	0.74	5.08	2.98	0.65	2.67	2.66	—	2.66
1975	1.36	—	3.45	2.69	2.55	2.08	7.48	4.75	1.53	4.35	4.35	—	4.35
1980	—	—	9.02	7.17	4.88	6.38	14.36	10.00	3.87	9.25	9.25	—	9.25
1985	—	—	9.99	8.28	9.93	5.81	18.18	8.85	4.85	8.27	8.28	—	8.28
1990	—	2.64	9.32	8.00	9.36	5.62	20.61	8.74	2.80	8.08	8.09	17.47	8.09
1995	—	7.05	8.36	7.55	10.50	3.85	21.75	8.60	2.72	7.66	7.66	19.07	7.66
2000	—	8.25	10.87	10.10	13.72	6.51	23.20	11.52	3.23	10.56	10.56	20.34	10.56
2005	—	8.65	18.56	16.50	19.15	12.93	35.22	17.30	6.89	16.87	16.87	26.80	16.87
2006	—	6.89	22.31	18.61	20.79	14.56	43.88	19.63	7.46	19.07	19.07	28.31	19.07
2007	—	5.95	23.70	20.00	22.98	15.67	47.16	21.89	7.90	20.98	20.97	29.58	20.97
2008	—	7.84	27.23	26.74	26.93	23.05	55.12	25.45	10.46	25.83	25.82	28.14	25.82
2009	—	4.02	20.32	17.14	21.76	12.50	56.07	18.38	7.59	17.79	17.79	28.29	17.79
2010	—	5.13	25.19	22.12	24.08	16.09	58.80	21.81	8.07	21.94	21.93	26.99	21.93
2011	—	13.08	31.64	28.39	30.26	22.40	69.54	27.74	11.02	27.99	27.99	28.55	27.99
2012	—	12.14	33.04	29.13	23.09	22.80	72.11	28.32	12.27	28.62	28.62	28.02	28.62
2013	—	R 11.93	32.71	29.18	24.40	21.85	69.42	27.62	11.78	28.20	28.20	28.94	28.20
2014	—	R 13.30	33.16	28.45	27.02	20.67	69.44	26.41	11.38	27.18	27.18	29.89	27.18
2015	—	R 13.38	24.86	19.74	16.49	11.82	67.28	18.96	6.13	19.25	19.25	29.07	19.25
2016	—	R 13.41	21.62	16.91	15.55	9.58	65.78	16.86	4.45	16.84	16.84	28.78	16.84
2017	—	R 13.48	24.13	19.43	20.90	11.93	67.25	18.93	6.29	19.01	19.01	32.90	19.01
2018	—	R 13.54	27.04	23.27	22.67	15.47	72.37	20.98	7.86	21.72	21.72	30.60	21.72
2019	—	R 13.76	25.57	22.11	19.25	14.18	74.92	20.00	7.41	20.67	20.67	31.54	20.67
2020	—	R 13.66	22.34	18.16	18.37	9.42	75.34	16.41	5.40	17.03	17.03	29.94	17.03
2021	—	R 13.83	28.86	24.02	27.47	14.50	81.25	23.18	8.16	23.35	R 23.32	29.47	R 23.32
2022	—	R 17.33	36.02	36.60	27.58	25.80	97.37	30.53	14.14	32.68	R 32.64	38.19	R 32.64
2023	—	17.84	32.62	30.76	22.96	20.65	105.48	27.07	11.64	28.30	28.27	37.31	28.28
	Expenditures in million dollars												
1970	0.4	—	4.0	58.1	0.5	10.6	18.8	882.2	1.3	975.5	975.9	—	975.9
1975	0.1	—	3.8	175.3	1.2	30.4	34.6	1,579.7	3.2	1,828.1	1,828.2	—	1,828.2
1980	—	—	11.8	736.5	1.6	76.5	60.3	3,111.7	4.9	4,003.3	4,003.3	—	4,003.3
1985	—	—	19.8	991.9	5.6	507.4	69.4	2,636.7	0.9	4,231.9	4,271.2	—	4,271.2
1990	—	0.1	14.2	1,119.0	5.5	569.3	88.6	2,788.9	3.4	4,589.0	4,633.9	0.7	4,634.7
1995	—	0.8	6.1	1,127.2	4.2	378.8	89.2	3,092.7	4.0	4,702.1	4,702.9	1.0	4,703.9
2000	—	2.5	6.2	1,868.7	3.2	517.1	101.6	4,384.1	6.1	6,886.9	6,889.4	1.1	6,890.5
2005	—	1.3	15.2	3,291.4	12.6	509.4	130.1	6,771.5	8.3	10,738.5	10,739.8	1.6	10,741.3
2006	—	0.9	13.1	3,855.9	11.6	649.1	157.9	7,675.6	8.3	12,371.6	12,372.5	1.8	12,374.2
2007	—	0.8	13.8	4,072.0	12.3	662.1	175.3	8,307.1	14.2	13,256.7	13,257.5	1.9	13,259.4
2008	—	1.0	12.7	4,961.4	25.5	818.7	190.2	9,279.7	24.3	15,312.6	15,313.5	1.9	15,315.4
2009	—	0.3	9.4	R 2,827.3	15.8	528.0	174.0	6,655.1	4.8	R 10,214.3	R 10,214.6	1.9	R 10,216.6
2010	—	0.3	13.0	R 4,037.6	3.1	346.2	236.8	8,067.3	6.5	R 12,710.4	R 12,710.6	1.8	R 12,712.4
2011	—	0.2	15.3	R 5,358.1	4.2	494.0	267.5	9,803.7	14.7	R 15,957.5	R 15,957.7	2.0	R 15,959.7
2012	—	0.2	14.8	R 5,346.3	2.6	498.9	254.5	9,938.0	11.2	R 16,066.4	R 16,066.6	1.9	R 16,068.5
2013	—	0.3	12.2	R 5,978.1	4.3	481.5	264.5	9,841.0	7.5	R 16,589.1	R 16,589.4	2.1	R 16,591.5
2014	—	R 1.1	11.2	R 6,071.4	10.7	497.7	275.3	9,453.7	6.9	R 16,326.9	R 16,328.0	2.1	R 16,330.1
2015	—	R 1.3	8.4	R 4,080.8	5.9	303.3	287.7	6,924.9	3.9	R 11,615.0	R 11,616.3	2.1	R 11,618.4
2016	—	R 1.7	7.0	R 3,330.7	7.5	260.4	261.2	6,215.1	5.4	R 10,087.3	R 10,089.0	2.1	R 10,091.0
2017	—	1.4	8.5	R 3,383.1	5.2	294.9	233.3	6,972.8	17.8	R 10,915.6	R 10,917.0	2.2	R 10,919.3
2018	—	0.1	8.9	R 4,070.4	5.1	396.3	234.0	7,555.4	6.5	R 12,276.7	R 12,276.8	2.2	R 12,279.0
2019	—	0.1	9.3	3,914.2	3.4	R 375.0	R 231.7	7,048.8	9.8	R 11,592.3	R 11,592.3	2.2	R 11,594.5
2020	—	(s)	6.9	R 3,085.5	2.7	R 176.5	R 212.1	5,295.6	6.6	R 8,786.0	R 8,786.0	1.8	R 8,787.9
2021	—	R 26.9	10.2	R 4,441.9	3.4	R 361.4	R 249.9	8,187.9	13.6	R 13,268.4	R 13,295.2	1.8	R 13,297.0
2022	—	R 29.6	13.2	R 6,751.0	8.8	R 575.1	R 313.8	10,552.0	24.1	R 18,238.1	R 18,267.6	1.6	R 18,269.3
2023	—	26.1	11.4	5,575.4	7.8	464.4	245.5	9,402.3	16.5	15,723.3	15,749.5	1.4	15,750.9

[a] Transportation use of natural gas as vehicle fuel only.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET7. Electric power sector price and expenditure estimates, selected years, 1970-2023, Indiana

Year	Coal	Natural gas [a]	Petroleum: Distillate fuel oil	Petroleum: Petroleum coke	Petroleum: Residual fuel oil	Petroleum: Total	Nuclear fuel	Biomass: Wood and waste [b]	Electricity imports [c]	Total energy [d]
	Prices in dollars per million Btu									
1970	0.25	0.35	0.77	0.24	0.75	0.58	—	—	—	0.26
1975	0.59	0.82	2.12	—	1.74	1.83	—	—	—	0.62
1980	1.27	2.51	5.99	—	—	5.99	—	—	—	1.30
1985	1.64	4.15	5.87	—	—	5.87	—	—	—	1.66
1990	1.36	2.58	5.12	0.71	—	2.03	—	—	—	1.38
1995	1.26	2.44	4.01	0.69	—	3.35	—	0.70	—	1.27
2000	1.08	4.45	6.70	0.65	—	2.49	—	0.67	—	1.13
2005	1.40	8.61	8.81	1.20	—	6.02	—	2.28	16.53	1.61
2006	1.50	7.52	15.17	—	—	15.17	—	0.39	17.32	1.64
2007	1.59	7.37	15.29	—	—	15.29	—	0.38	18.25	1.78
2008	1.93	9.48	22.29	—	—	22.29	—	0.42	18.28	2.15
2009	2.02	4.63	12.82	1.64	—	12.08	—	0.55	12.10	2.11
2010	2.13	4.87	16.61	—	—	16.61	—	0.47	13.31	2.28
2011	2.47	4.42	21.83	4.87	—	7.74	—	0.67	11.53	2.65
2012	2.59	3.01	23.19	4.56	—	7.73	—	0.59	9.51	2.66
2013	2.53	4.04	22.96	1.48	—	4.20	—	0.61	11.49	2.66
2014	2.56	5.11	21.78	0.94	—	3.94	—	0.63	13.31	2.76
2015	2.32	2.93	13.78	0.95	—	2.50	—	0.65	10.54	2.40
2016	2.25	2.92	10.60	0.96	—	2.84	—	0.58	8.74	2.37
2017	2.15	3.22	12.98	—	—	12.98	—	0.56	9.18	2.32
2018	2.11	3.27	16.34	—	—	16.34	—	0.61	10.74	2.35
2019	2.12	2.59	14.86	—	—	14.86	—	0.55	—	2.26
2020	2.08	2.05	10.33	—	—	10.33	—	0.60	—	2.08
2021	2.28	4.16	15.16	—	—	15.16	—	0.47	—	2.79
2022	2.76	R 6.27	27.13	—	—	27.13	—	0.50	—	R 3.83
2023	2.99	2.92	21.24	—	—	21.24	—	0.60	—	2.98
	Expenditures in million dollars									
1970	123.7	10.3	1.2	0.4	1.0	2.5	—	—	—	136.5
1975	343.1	9.0	5.9	—	14.7	20.6	—	—	—	372.6
1980	921.2	4.8	25.4	—	—	25.4	—	—	—	951.4
1985	1,340.7	4.7	14.2	—	—	14.2	—	—	—	1,359.6
1990	1,371.1	17.2	12.6	4.1	—	16.7	—	—	—	1,404.9
1995	1,354.8	20.8	8.0	0.3	—	8.3	—	0.4	—	1,384.3
2000	1,360.3	65.7	20.7	4.6	—	25.3	—	0.7	—	1,452.0
2005	1,776.0	309.9	16.6	1.3	—	17.9	—	0.6	0.7	2,105.0
2006	1,911.4	207.6	23.5	—	—	23.5	—	0.8	1.8	2,145.2
2007	2,026.3	283.3	25.1	—	—	25.1	—	0.9	4.9	2,340.5
2008	2,460.6	329.7	39.7	—	—	39.7	—	1.3	1.4	2,832.7
2009	2,288.5	171.5	18.5	0.2	—	18.7	—	1.7	0.3	2,480.6
2010	2,496.3	300.7	24.6	—	—	24.6	—	1.5	0.3	2,823.4
2011	2,693.0	381.1	36.4	39.9	—	76.3	—	2.4	(s)	3,152.9
2012	2,517.0	350.5	27.9	26.6	—	54.5	—	2.0	1.1	2,925.2
2013	2,495.3	333.9	32.6	14.5	—	47.1	—	2.3	3.3	2,881.9
2014	2,649.1	433.1	38.8	10.0	—	48.8	—	2.4	2.1	3,135.4
2015	1,938.1	391.1	20.9	10.5	—	31.4	—	2.7	4.4	2,367.7
2016	1,748.9	533.4	11.7	4.3	—	16.0	—	2.3	0.4	2,301.1
2017	1,650.5	450.5	14.9	—	—	14.9	—	2.4	0.4	2,118.8
2018	1,748.9	675.0	20.2	—	—	20.2	—	2.7	2.7	2,449.4
2019	1,407.0	606.3	20.0	—	—	20.0	—	2.5	—	2,035.8
2020	1,092.4	497.8	13.5	—	—	13.5	—	2.6	—	1,606.3
2021	1,359.7	902.3	24.4	—	—	24.4	—	2.0	—	2,288.4
2022	1,601.2	R 1,534.2	36.5	—	—	36.5	—	1.7	—	R 3,173.6
2023	1,387.6	807.3	25.0	—	—	25.0	—	1.5	—	2,221.4

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[c] Electricity imported from Canada and Mexico.
[d] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET1. Primary energy, electricity, and total energy price and expenditure estimates, selected years, 1970-2023, Iowa

Year	Primary energy														Electric power sector [i,k,l]	Electricity [m]	Total energy [h,i,j]
	Coal				Petroleum								Biomass				
	Coking coal	Steam coal	Total	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Nuclear fuel	Wood and waste [g,h]	Total [h,i,j,k]			
	Prices in dollars per million Btu																
1970	—	0.37	0.37	0.57	1.01	1.61	0.75	2.83	0.61	1.58	2.11	—	2.40	1.20	0.30	6.39	1.80
1975	—	0.95	0.95	1.00	2.45	3.10	2.09	4.59	1.88	3.22	3.75	0.25	2.74	2.16	0.75	9.11	3.13
1980	—	1.42	1.42	2.79	6.41	5.75	6.47	9.97	3.19	7.31	8.26	0.39	3.73	4.54	1.32	13.97	6.68
1985	—	1.51	1.51	4.60	6.52	7.64	6.28	9.47	4.07	8.35	8.30	0.94	3.70	4.93	1.57	19.02	8.04
1990	—	1.16	1.16	3.81	7.52	6.20	6.11	9.38	2.36	8.57	8.46	0.66	2.08	4.29	1.11	17.37	7.66
1995	—	1.05	1.05	4.00	6.63	7.50	4.22	8.77	2.38	8.87	7.88	0.74	2.46	4.18	0.99	17.68	7.59
2000	—	0.91	0.91	6.45	9.61	10.83	6.96	11.74	3.24	9.19	10.76	0.61	2.46	5.54	0.85	17.39	9.90
2005	—	1.09	1.09	10.40	16.15	16.64	13.57	17.38	6.59	10.32	16.38	0.55	2.67	8.70	1.35	19.60	14.30
2006	—	1.24	1.24	9.75	18.41	18.60	15.21	19.92	7.72	14.26	18.88	0.55	2.32	9.52	1.33	20.54	15.59
2007	—	1.23	1.23	9.39	20.20	20.62	16.48	22.43	8.51	16.70	21.11	0.63	2.44	9.96	1.47	20.02	16.09
2008	—	1.36	1.36	10.01	26.51	24.71	22.81	25.59	12.35	18.97	25.35	0.58	2.87	11.42	1.45	20.20	18.05
2009	—	1.43	1.43	7.29	16.87	19.73	12.94	18.73	7.98	22.20	18.44	0.57	2.44	8.70	1.26	21.59	14.31
2010	—	1.51	1.51	7.13	20.57	16.24	16.79	22.18	11.66	R 25.79	R 20.80	0.65	2.79	R 9.28	1.42	22.44	R 15.38
2011	—	1.62	1.62	6.87	26.79	18.77	23.03	28.21	15.63	R 29.40	R 26.30	0.70	5.55	R 11.35	1.48	22.16	R 17.81
2012	—	1.66	1.66	5.87	27.28	13.74	23.44	28.80	16.91	R 29.18	R 26.27	0.77	5.64	R 11.25	1.56	22.60	R 17.69
2013	—	1.83	1.83	6.32	27.16	13.16	22.81	28.09	16.68	R 24.80	R 25.16	0.84	5.95	11.25	1.70	23.65	R 17.23
2014	—	1.80	1.80	7.92	26.18	15.74	20.10	26.86	15.95	R 24.86	R 24.69	0.80	R 5.06	R 11.70	1.73	23.89	R 17.65
2015	—	1.77	1.77	5.74	17.61	8.81	11.88	19.28	—	R 25.18	R 17.34	0.71	R 3.79	R 8.62	1.58	24.47	R 13.95
2016	—	1.72	1.72	5.14	14.81	8.01	9.72	17.15	7.32	R 21.44	R 15.14	0.67	R 3.12	R 7.95	1.56	25.07	R 12.95
2017	—	1.76	1.76	5.61	17.32	10.55	12.41	19.25	9.80	21.32	17.27	0.76	R 3.42	8.60	1.67	25.60	13.71
2018	—	1.71	1.71	5.57	20.86	12.29	15.64	21.34	11.12	24.58	19.68	0.75	R 3.73	R 9.20	1.72	26.13	14.65
2019	—	1.61	1.61	4.70	19.67	10.24	14.37	20.34	11.32	R 25.11	18.37	0.69	R 3.81	R 8.82	1.60	26.62	R 13.90
2020	—	1.60	1.60	4.63	15.64	9.18	10.01	16.69	—	R 20.58	R 15.09	0.65	R 3.16	8.13	1.54	26.29	R 12.67
2021	—	1.64	1.64	6.99	21.24	14.04	15.18	23.58	12.53	R 26.30	21.22	—	R 3.52	11.19	2.09	26.77	R 16.39
2022	—	1.84	1.84	R 8.85	33.04	16.36	26.31	31.05	20.03	R 36.91	29.51	—	R 4.81	R 15.51	R 2.97	28.05	20.48
2023	—	1.77	1.77	6.89	27.61	12.42	21.08	27.53	17.98	30.73	25.25	—	4.42	13.05	2.18	27.60	18.09
	Expenditures in million dollars																
1970	—	48.1	48.1	190.2	80.7	67.2	3.0	530.1	1.5	49.0	731.6	—	3.7	973.5	-50.4	337.5	1,260.7
1975	—	125.1	125.1	332.4	207.6	157.0	9.8	942.1	7.2	79.5	1,403.2	6.3	5.1	1,872.1	-132.5	624.4	2,364.0
1980	—	332.9	332.9	719.9	594.5	234.9	29.6	1,853.2	8.3	170.4	2,891.0	10.9	36.9	3,991.5	-313.1	1,184.5	4,862.9
1985	—	406.3	406.3	1,003.4	601.0	234.0	20.9	1,566.0	4.7	178.6	2,605.0	19.3	44.3	4,139.0	-400.1	1,666.6	5,405.5
1990	—	389.0	389.0	805.3	691.7	143.8	30.7	1,561.2	1.8	147.2	2,576.3	21.1	22.6	3,843.2	-346.5	1,744.6	5,241.3
1995	—	392.4	392.4	1,004.8	684.5	454.8	25.0	1,571.3	1.4	158.7	2,895.7	28.8	19.7	4,341.4	-354.4	2,069.2	6,056.2
2000	—	405.2	405.2	1,453.3	1,077.3	755.0	30.5	2,244.5	2.9	227.0	4,337.2	28.5	10.1	6,234.2	-367.4	2,318.8	8,185.6
2005	—	468.8	468.8	2,403.8	1,931.4	1,227.4	76.2	3,537.8	8.0	284.6	7,065.5	26.1	20.6	9,984.7	-588.0	2,859.4	12,256.1
2006	—	537.8	537.8	2,228.7	2,276.6	1,385.9	89.1	4,176.3	2.3	347.8	8,278.0	29.2	22.6	11,096.2	-589.6	3,037.8	13,544.5
2007	—	571.2	571.2	2,665.6	2,672.2	1,227.3	84.1	4,641.3	2.4	356.3	8,983.5	29.7	27.1	12,277.1	-700.7	3,092.9	14,669.3
2008	—	660.5	660.5	3,151.6	3,527.7	1,785.4	101.7	5,133.4	13.2	390.0	10,951.4	32.1	32.5	14,828.1	-721.3	3,135.3	17,242.1
2009	—	633.8	633.8	2,210.7	R 2,165.4	1,468.5	38.5	3,774.3	3.3	392.3	R 7,842.3	27.9	30.7	R 10,745.4	-563.9	3,215.3	R 13,396.9
2010	—	746.8	746.8	2,150.7	R 2,825.0	1,084.1	94.2	4,586.5	1.7	R 385.4	R 8,977.1	30.4	37.7	R 11,942.7	-686.7	3,479.7	R 14,735.7
2011	—	750.2	750.2	2,052.8	R 3,723.1	1,214.9	132.9	5,860.7	3.1	R 418.4	R 11,353.1	38.0	31.7	R 14,225.9	-671.6	3,451.3	R 17,005.6
2012	—	703.5	703.5	1,697.7	R 3,760.9	724.9	141.4	5,615.9	1.2	R 446.9	R 10,691.2	34.9	29.3	R 13,156.6	-652.6	3,524.3	R 16,028.3
2013	—	736.5	736.5	R 2,045.8	R 3,763.5	919.0	126.0	5,560.6	0.6	R 486.7	R 10,856.4	46.5	35.5	R 13,720.7	-688.3	3,769.0	R 16,801.4
2014	—	722.7	722.7	2,606.8	R 3,798.1	1,113.1	108.7	5,400.9	0.6	R 486.3	R 10,907.7	34.6	R 40.6	R 14,312.4	-683.5	3,847.3	R 17,476.2
2015	—	615.2	615.2	1,854.3	R 2,603.8	555.5	70.8	3,848.6	—	R 453.8	R 7,532.6	39.1	R 27.7	R 10,068.9	-577.0	3,935.8	R 13,427.7
2016	—	512.4	512.4	R 1,744.1	R 2,216.3	509.3	57.6	3,570.1	0.1	R 397.4	R 6,750.7	32.8	R 21.7	R 9,061.7	-504.1	4,142.7	R 12,700.2
2017	—	528.5	528.5	R 2,254.4	R 2,577.0	674.5	80.1	3,658.9	1.0	406.5	R 7,398.0	41.2	R 21.5	R 10,243.6	-568.4	4,273.0	R 13,948.2
2018	—	555.8	555.8	R 2,547.7	R 3,145.9	911.5	R 101.1	4,019.6	0.8	426.7	R 8,605.6	38.1	R 33.1	R 11,780.2	-658.5	4,565.7	R 15,687.4
2019	—	429.9	429.9	R 2,137.0	R 3,091.6	834.1	R 92.7	3,801.5	1.1	R 425.4	R 8,246.5	37.5	R 36.1	R 10,887.0	-527.1	4,635.8	R 14,995.8
2020	—	293.6	293.6	R 1,945.2	R 2,441.3	683.7	R 45.7	2,753.7	—	R 432.1	R 6,356.5	19.7	R 27.5	R 8,642.5	-342.6	4,543.1	R 12,843.0
2021	—	433.0	433.0	2,862.2	R 3,273.5	969.5	86.4	4,333.3	1.2	R 481.9	R 9,145.7	—	R 32.6	R 12,473.5	-574.8	4,830.6	R 16,729.3
2022	—	418.4	418.4	R 4,056.6	R 5,221.9	1,190.7	R 167.3	6,018.1	1.9	R 616.2	R 13,216.1	—	R 48.1	R 17,739.2	R -728.0	5,187.4	R 22,198.6
2023	—	356.5	356.5	3,197.2	4,256.0	825.5	136.5	5,010.2	1.4	567.6	10,797.2	—	42.9	14,393.9	-518.5	5,122.4	18,997.8

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[l] Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
[m] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET2. Total end-use energy price and expenditure estimates, selected years, 1970-2023, Iowa

Year	Primary energy											Electricity [k]	Total energy [h,i,j]
			Petroleum							Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g,h]	Total [h,i,j]		
	Prices in dollars per million Btu												
1970	0.45	0.66	1.02	1.61	0.75	2.83	0.59	1.58	2.12	3.01	1.43	6.39	1.80
1975	1.30	1.05	2.46	3.10	2.09	4.59	1.85	3.22	3.77	3.26	2.53	9.11	3.13
1980	1.61	2.80	6.41	5.75	6.47	9.97	3.09	7.31	8.27	3.79	5.72	13.97	6.68
1985	1.71	4.61	6.52	7.64	6.28	9.47	4.07	8.35	8.30	3.86	6.39	19.02	8.04
1990	1.36	3.83	7.54	6.20	6.11	9.38	2.36	8.57	8.47	2.09	5.99	17.37	7.66
1995	1.40	4.02	6.65	7.50	4.22	8.77	2.38	8.87	7.89	2.55	5.86	17.68	7.59
2000	1.43	6.49	9.65	10.83	6.96	11.74	3.24	9.19	10.78	3.03	8.46	17.39	9.90
2005	1.83	10.56	16.23	16.64	13.57	17.38	6.59	10.32	16.40	2.83	13.21	19.60	14.30
2006	2.33	9.93	18.45	18.60	15.21	19.92	7.72	14.88	18.94	2.46	14.57	20.54	15.59
2007	2.20	9.57	20.25	20.62	16.48	22.43	8.51	17.79	21.20	2.61	15.29	20.02	16.09
2008	2.56	10.06	26.54	24.71	22.81	25.59	12.35	19.72	25.41	3.10	17.63	20.20	18.05
2009	2.73	7.37	16.89	19.73	12.94	18.73	7.98	22.54	18.46	2.57	12.93	21.59	14.31
2010	2.56	7.19	20.60	16.24	16.79	22.18	11.66	R 27.08	R 20.85	2.84	R 14.02	22.44	R 15.38
2011	2.59	6.92	26.82	18.77	23.03	28.21	15.63	R 31.04	R 26.36	6.58	R 16.96	22.16	R 17.81
2012	2.62	6.00	27.31	13.74	23.44	28.80	16.91	R 29.43	R 26.28	6.89	R 16.67	22.60	R 17.69
2013	2.58	6.38	27.20	13.16	22.81	28.09	16.68	R 24.80	R 25.16	7.07	R 15.98	23.65	R 17.23
2014	2.50	7.99	26.20	15.74	20.10	26.86	15.95	R 24.86	R 24.69	R 5.69	R 16.44	23.89	R 17.65
2015	2.50	5.89	17.63	8.81	11.88	19.28	—	R 25.18	R 17.34	R 4.19	R 11.84	24.47	R 13.95
2016	2.38	R 5.32	14.84	8.01	9.72	17.15	7.32	R 21.44	R 15.15	R 3.35	R 10.49	25.07	R 12.95
2017	2.31	5.82	17.34	10.55	12.41	19.25	9.80	21.32	17.27	R 3.87	11.38	25.60	13.71
2018	2.17	5.90	20.88	12.29	15.64	21.34	11.12	24.58	19.69	R 4.11	12.41	26.13	14.65
2019	1.96	4.97	R 19.69	10.24	14.37	20.34	11.32	R 25.11	18.37	R 4.12	11.46	26.62	R 13.90
2020	1.94	4.96	15.67	9.18	10.01	16.69	—	R 20.58	R 15.10	R 3.50	R 9.87	26.29	R 12.67
2021	1.87	7.35	R 21.29	14.04	15.18	23.58	12.53	R 26.30	21.23	R 3.79	R 14.16	26.77	R 16.39
2022	1.94	R 9.26	33.10	16.36	26.31	31.05	20.03	R 36.91	29.52	R 5.21	R 18.93	28.05	20.48
2023	1.81	7.63	27.64	12.42	21.08	27.53	17.98	30.73	25.26	4.70	16.05	27.60	18.09
	Expenditures in million dollars												
1970	21.1	168.7	79.3	67.2	3.0	530.1	1.3	49.0	729.9	3.4	923.1	337.5	1,260.7
1975	40.1	300.4	201.3	157.0	9.8	942.1	4.6	79.5	1,394.3	4.8	1,739.6	624.4	2,364.0
1980	55.2	703.3	588.6	234.9	29.6	1,853.2	6.8	170.4	2,883.6	36.3	3,678.4	1,184.5	4,862.9
1985	71.1	995.6	597.5	234.0	20.9	1,566.0	4.6	178.6	2,601.5	43.8	3,738.9	1,666.6	5,405.5
1990	80.5	792.5	688.0	143.8	30.7	1,561.2	1.8	147.2	2,572.6	22.3	3,496.7	1,744.6	5,241.3
1995	84.3	992.1	680.8	454.8	25.0	1,571.3	1.4	158.7	2,892.0	18.7	3,987.0	2,069.2	6,056.2
2000	96.5	1,431.6	1,069.0	755.0	30.5	2,244.5	2.9	227.0	4,328.8	9.9	5,866.8	2,318.8	8,185.6
2005	120.0	2,215.6	1,908.0	1,227.4	76.2	3,537.8	8.0	284.6	7,042.1	18.9	9,396.7	2,859.4	12,256.1
2006	158.5	2,074.6	2,252.6	1,385.9	89.1	4,176.3	2.3	346.1	8,252.3	21.3	10,506.7	3,037.8	13,544.5
2007	150.3	2,465.1	2,627.5	1,227.3	84.1	4,641.3	2.4	353.4	8,936.0	25.0	11,576.4	3,092.9	14,669.3
2008	162.4	2,987.9	3,504.6	1,785.4	101.7	5,133.4	13.2	388.2	10,926.5	30.0	14,106.8	3,135.3	17,242.1
2009	160.2	2,160.9	R 2,155.6	1,468.5	38.5	3,774.3	3.3	391.6	R 7,831.8	28.6	R 10,181.5	3,215.3	R 13,396.9
2010	184.7	2,079.2	R 2,807.5	1,084.1	94.2	4,586.5	1.7	R 383.9	R 8,958.1	34.0	R 11,256.0	3,479.7	R 14,735.7
2011	196.7	1,998.4	R 3,702.3	1,214.9	132.9	5,860.7	3.1	R 417.1	R 11,331.0	28.2	R 13,554.3	3,451.3	R 17,005.6
2012	179.5	1,634.3	R 3,734.0	724.9	141.4	5,615.9	1.2	R 446.6	R 10,664.0	26.2	R 12,504.0	3,524.3	R 16,028.3
2013	178.7	1,988.9	R 3,739.6	919.0	126.0	5,560.6	0.6	R 486.7	R 10,832.6	32.3	R 13,032.5	3,769.0	R 16,801.4
2014	159.0	R 2,542.2	R 3,782.3	1,113.1	108.7	5,400.9	0.6	R 486.3	R 10,891.9	R 35.9	R 13,628.9	3,847.3	R 17,476.2
2015	141.4	R 1,801.7	R 2,597.2	555.5	70.8	3,848.6	—	R 453.8	R 7,525.9	R 22.8	R 9,491.9	3,935.8	R 13,427.7
2016	115.0	R 1,685.4	R 2,205.9	509.3	57.6	3,570.1	0.1	R 397.4	R 6,740.4	R 16.8	R 8,557.5	4,142.7	R 12,700.2
2017	109.6	R 2,159.8	R 2,567.9	674.5	80.1	3,658.9	1.0	406.5	R 7,388.9	R 16.8	R 9,675.2	4,273.0	R 13,948.2
2018	100.7	R 2,398.5	R 3,133.8	911.5	R 101.1	4,019.6	0.8	426.7	R 8,593.4	R 29.1	R 11,121.7	4,565.7	R 15,687.4
2019	88.1	R 2,004.5	R 3,080.1	834.1	R 92.7	3,801.5	1.1	R 425.4	R 8,235.0	R 32.3	R 10,359.9	4,635.8	R 14,995.8
2020	78.1	R 1,848.2	R 2,434.0	683.7	R 45.7	2,753.7	—	R 432.1	R 6,349.2	R 24.3	R 8,299.8	4,543.1	R 12,843.0
2021	73.0	R 2,674.2	R 3,251.1	969.5	86.4	4,333.3	1.2	R 481.9	R 9,123.2	R 28.3	R 11,898.7	4,830.6	R 16,729.3
2022	86.1	3,700.1	R 5,187.0	1,190.7	R 167.3	6,018.1	1.9	R 616.2	R 13,181.2	R 43.8	R 17,011.2	5,187.4	R 22,198.6
2023	69.1	2,989.3	4,237.4	825.5	136.5	5,010.2	1.4	567.6	10,778.6	38.4	13,875.4	5,122.4	18,997.8

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. · Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2023, Iowa

Year	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
	Prices in dollars per million Btu									
1970	1.27	0.96	1.22	1.82	1.57	1.62	0.61	1.16	7.75	2.05
1975	3.69	1.42	2.56	3.55	2.99	3.27	1.20	1.96	10.46	3.44
1980	3.31	3.18	6.79	6.86	8.10	6.84	3.06	4.12	16.13	6.83
1985	3.41	5.33	5.94	5.62	7.85	5.81	3.46	5.37	22.53	9.54
1990	2.41	4.96	5.73	7.19	8.20	6.73	3.56	5.21	22.89	10.18
1995	2.31	5.07	4.95	6.54	4.97	6.19	2.90	5.24	24.14	10.40
2000	2.39	7.77	9.03	9.07	9.18	9.07	4.41	8.00	24.54	12.78
2005	3.67	12.22	15.16	13.96	15.34	14.05	6.91	12.49	27.17	17.52
2006	4.51	12.26	17.37	15.86	19.50	15.99	7.96	12.95	28.23	18.39
2007	4.13	11.64	19.47	17.73	22.12	17.87	8.79	12.80	27.68	18.03
2008	—	11.79	23.95	21.81	23.36	21.97	10.83	14.15	27.81	18.54
2009	—	9.76	16.27	18.27	23.70	18.19	8.13	11.74	29.27	17.53
2010	—	9.51	19.64	18.16	25.17	18.28	9.60	11.36	30.54	18.21
2011	—	9.46	27.36	20.07	28.49	20.64	11.54	11.94	30.67	18.58
2012	—	9.33	27.27	17.14	29.88	17.65	12.85	11.12	31.71	19.24
2013	—	8.74	28.29	16.54	30.54	17.03	12.58	10.41	32.36	17.98
2014	—	9.64	27.34	22.75	32.87	22.96	12.27	12.16	32.71	18.93
2015	—	8.08	17.90	13.19	16.97	13.42	8.45	9.10	34.10	18.11
2016	—	7.70	15.49	10.65	13.53	10.84	7.22	8.31	34.99	18.16
2017	—	8.81	17.64	13.82	16.92	14.07	8.08	9.82	36.16	19.49
2018	—	8.44	19.24	14.80	26.07	14.98	8.94	9.99	35.89	18.67
2019	—	7.70	18.06	13.86	22.82	14.01	8.60	9.30	36.52	18.09
2020	—	7.30	14.70	12.51	14.82	12.57	7.11	8.67	36.52	R 18.30
2021	—	9.55	20.02	19.12	23.41	19.16	R 8.53	R 11.85	37.30	R 21.01
2022	—	R 12.24	29.60	21.18	40.66	21.47	R 13.20	R 14.68	38.53	R 22.57
2023	—	11.03	27.35	18.69	36.32	19.04	12.07	13.09	39.00	22.42
	Expenditures in million dollars									
1970	2.6	92.9	15.8	50.4	2.9	69.2	0.2	164.9	171.3	336.2
1975	2.8	134.7	26.9	98.0	2.3	127.3	0.5	265.2	297.5	562.7
1980	1.3	271.2	94.5	108.5	2.2	205.1	5.2	482.8	552.6	1,035.4
1985	4.5	424.1	51.6	68.4	5.1	125.1	7.4	561.0	757.4	1,318.4
1990	2.8	356.3	30.9	80.2	1.1	112.3	7.8	479.2	821.2	1,300.4
1995	0.7	418.8	22.5	105.5	0.7	128.7	5.6	553.7	958.7	1,512.4
2000	1.8	576.8	25.3	195.8	1.4	222.5	6.6	807.7	1,007.3	1,815.0
2005	1.9	827.4	20.0	246.4	1.9	268.3	9.4	1,107.1	1,258.2	2,365.3
2006	2.9	768.1	24.3	259.2	1.7	285.2	9.6	1,065.8	1,285.3	2,351.1
2007	3.1	796.8	25.8	295.5	1.2	322.6	11.8	1,134.3	1,328.2	2,462.4
2008	—	898.6	39.6	479.1	0.8	519.5	16.2	1,434.3	1,335.6	2,769.9
2009	—	689.2	17.1	391.2	1.9	410.2	14.2	1,113.6	1,370.6	2,484.2
2010	—	654.4	21.6	320.8	2.1	344.6	18.0	1,016.9	1,516.9	2,533.8
2011	—	640.1	39.9	358.1	1.8	399.7	21.0	1,060.8	1,499.1	2,560.0
2012	—	528.4	20.1	245.6	0.3	266.0	19.5	813.9	1,513.4	2,327.3
2013	—	651.9	20.9	288.7	0.3	309.9	25.0	986.8	1,615.0	2,601.8
2014	—	767.3	21.2	405.0	0.7	426.9	24.6	1,218.8	1,610.0	R 2,828.9
2015	—	533.9	14.0	198.2	0.2	R 212.5	13.8	760.1	1,604.0	R 2,364.1
2016	—	497.9	9.7	163.9	0.4	R 174.1	9.9	R 681.9	1,682.4	2,364.3
2017	—	561.4	17.2	201.6	0.5	R 219.3	10.7	R 791.4	1,692.8	2,484.2
2018	—	634.3	R 17.6	335.1	0.4	R 353.1	14.6	R 1,002.0	1,817.1	R 2,819.1
2019	—	584.6	15.3	348.7	0.6	364.7	R 15.3	R 964.6	1,805.9	R 2,770.5
2020	—	498.6	9.6	297.2	0.7	307.5	R 8.7	R 814.9	1,815.0	R 2,629.9
2021	—	630.4	16.8	392.7	0.5	410.0	R 12.1	R 1,052.5	1,864.6	R 2,917.2
2022	—	924.6	R 27.0	561.1	0.8	588.9	R 24.0	R 1,537.4	1,997.1	R 3,534.6
2023	—	709.9	22.8	405.5	1.2	429.5	18.3	1,157.6	1,940.4	3,098.0

[a] Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2023, Iowa

Year	Primary energy										Electricity [j]	Total energy [g,h,i]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f,g]	Total [g,h,i]		
	Prices in dollars per million Btu											
1970	0.41	0.68	1.05	1.15	0.81	2.83	0.66	1.31	0.61	0.77	7.68	1.82
1975	1.24	1.05	2.40	2.38	2.30	4.59	1.69	2.72	1.20	1.26	10.55	2.95
1980	1.59	2.84	6.44	4.67	5.52	9.97	3.80	6.68	3.06	3.35	15.93	6.32
1985	1.66	4.80	6.03	8.05	7.85	9.47	4.07	6.78	3.46	4.87	21.88	9.23
1990	1.34	4.01	5.44	4.76	8.20	9.38	2.36	5.81	3.56	3.97	18.30	8.53
1995	1.40	4.12	4.30	7.70	4.97	8.77	—	5.73	2.57	4.15	18.74	9.20
2000	1.41	6.66	7.05	10.95	9.18	11.74	3.24	9.66	3.40	6.52	19.07	11.03
2005	1.81	10.56	13.72	16.17	15.34	17.38	6.59	15.64	3.32	10.23	20.37	14.20
2006	2.31	10.25	15.85	17.95	19.50	19.92	7.72	18.06	3.08	10.93	21.37	14.92
2007	2.18	9.87	17.41	19.38	22.12	22.43	—	20.71	3.83	10.98	20.83	14.75
2008	3.49	10.15	23.92	23.08	23.36	25.59	—	24.25	5.23	11.95	21.05	15.17
2009	3.38	7.83	14.14	18.64	23.70	18.73	—	17.61	3.71	9.42	22.14	13.65
2010	2.96	7.76	17.92	19.61	25.17	22.18	11.66	20.71	4.19	10.26	23.19	14.79
2011	2.87	7.48	24.33	22.93	28.49	28.21	—	26.22	4.51	11.49	23.02	15.52
2012	2.78	7.03	24.89	16.88	29.88	28.80	16.91	25.70	4.53	11.87	23.47	16.23
2013	2.76	6.77	24.53	17.98	30.54	28.09	—	25.34	4.85	10.87	24.73	15.55
2014	2.67	7.84	22.87	20.20	32.87	26.86	—	24.17	R 4.53	11.13	25.42	15.90
2015	2.65	6.18	13.52	11.30	16.97	19.28	—	16.69	R 2.98	8.81	26.14	14.80
2016	2.54	5.67	11.32	10.51	13.53	17.15	7.32	12.47	R 2.04	6.51	26.87	14.38
2017	2.62	6.51	13.75	14.41	16.92	19.25	—	R 14.71	R 2.41	7.66	27.74	15.29
2018	2.44	6.46	17.17	15.84	26.07	21.34	—	17.31	R 1.98	8.04	28.38	15.27
2019	2.21	5.60	15.69	12.08	22.82	20.34	—	15.36	R 2.85	7.22	29.29	14.82
2020	2.31	5.49	10.60	11.25	14.82	16.69	—	11.96	R 2.61	6.65	29.18	14.69
2021	2.14	7.92	16.89	18.41	23.41	23.58	—	18.82	R 3.20	9.41	29.81	17.10
2022	4.14	R 10.41	28.42	19.53	40.66	31.05	—	28.59	R 5.26	R 14.96	30.92	R 20.17
2023	1.70	8.67	21.63	15.16	36.32	27.53	—	21.66	5.56	10.57	30.27	18.21
	Expenditures in million dollars											
1970	0.7	39.4	5.5	3.5	0.1	4.0	0.3	13.4	(s)	53.4	95.8	149.3
1975	2.2	71.1	10.1	7.3	0.1	7.8	1.2	26.5	(s)	99.8	184.3	284.1
1980	2.3	144.0	28.2	8.2	0.2	18.3	1.9	56.7	0.1	203.1	299.0	502.1
1985	7.7	231.3	41.0	10.9	0.3	11.8	(s)	64.0	0.2	303.5	470.8	774.3
1990	6.3	177.3	18.3	5.9	1.8	7.0	0.4	33.3	0.9	217.9	470.2	688.1
1995	2.7	208.4	10.4	13.8	0.1	1.6	—	26.0	0.8	237.9	568.5	806.5
2000	8.6	305.1	19.7	26.3	0.3	32.6	0.1	79.0	1.2	393.9	646.1	1,040.1
2005	10.8	480.0	25.2	25.5	1.3	66.9	0.1	119.4	3.0	613.2	783.4	1,396.5
2006	14.9	450.7	58.1	35.9	0.5	140.4	0.1	235.4	2.8	703.9	850.3	1,554.2
2007	14.8	462.3	24.9	39.5	0.4	185.5	—	250.7	3.2	731.0	858.7	1,589.7
2008	20.8	575.0	51.6	62.0	0.2	193.8	—	308.2	3.4	907.4	874.8	1,782.2
2009	20.6	446.8	41.8	74.3	0.1	167.7	—	284.3	2.6	754.4	884.2	1,638.6
2010	18.1	403.6	48.3	48.5	0.2	256.5	0.2	354.2	3.1	779.0	951.5	1,730.5
2011	16.4	391.7	95.5	68.9	0.3	306.0	—	470.9	3.7	882.6	949.3	1,831.9
2012	13.6	312.1	139.1	39.0	0.2	312.2	0.3	491.6	3.5	820.8	977.7	1,798.4
2013	13.2	394.4	R 136.8	43.8	0.2	312.4	—	R 493.8	3.7	R 905.2	1,050.0	R 1,955.1
2014	12.7	468.1	R 117.1	50.4	0.2	282.3	—	R 450.9	R 4.2	935.9	1,070.3	R 2,006.3
2015	10.4	320.1	R 70.6	21.7	0.1	259.0	—	R 352.2	R 3.2	R 685.9	1,076.7	1,762.7
2016	7.6	296.0	R 58.1	20.6	0.1	47.8	0.1	R 127.0	R 2.4	433.0	1,126.8	1,559.8
2017	7.3	341.5	R 79.6	30.9	0.1	54.4	—	R 165.7	R 2.4	516.9	1,148.4	R 1,665.3
2018	5.9	388.9	R 101.0	56.7	0.4	61.2	—	R 219.9	R 3.0	617.6	1,202.6	1,820.2
2019	5.0	345.0	R 111.9	51.2	0.2	58.9	—	R 222.4	R 4.5	R 576.9	1,230.3	R 1,807.2
2020	3.9	297.0	R 75.6	46.6	0.3	48.5	—	R 171.2	3.5	R 475.6	1,155.7	R 1,631.3
2021	3.9	430.8	R 82.8	52.1	0.1	68.9	—	R 204.4	R 4.1	R 643.2	1,234.4	R 1,877.5
2022	8.4	644.0	R 149.2	50.1	0.2	453.8	—	R 654.9	R 5.0	1,312.3	1,315.5	R 2,627.9
2023	0.6	488.0	103.7	36.9	0.4	82.8	—	224.3	4.9	717.8	1,301.6	2,019.4

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[g] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[j] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: Expenditure totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2023, Iowa

Year	Primary energy												Electricity [i]	Total energy [f,g,h]
	Coal			Natural gas [a]	Petroleum						Biomass	Total [f,g,h]		
	Coking coal	Steam coal	Total		Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e,f]			
	Prices in dollars per million Btu													
1970	—	0.41	0.41	0.36	0.75	1.21	2.83	0.57	1.15	1.48	4.00	0.84	3.87	1.06
1975	—	1.24	1.24	0.77	2.15	2.59	4.59	1.92	2.57	2.89	4.00	1.62	6.31	2.02
1980	—	1.59	1.59	2.51	5.28	5.09	9.97	2.88	6.04	6.11	3.95	3.70	10.47	4.50
1985	—	1.66	1.66	3.87	6.28	9.04	9.47	4.07	6.70	7.37	3.95	4.74	13.50	5.93
1990	—	1.34	1.34	2.85	5.81	5.31	9.38	2.36	5.57	5.98	1.65	3.29	11.66	4.59
1995	—	1.40	1.40	3.21	4.87	7.83	8.77	2.38	6.18	6.59	2.42	4.00	11.53	5.11
2000	—	1.41	1.41	5.46	7.97	11.65	11.74	3.24	6.98	9.46	1.47	6.11	11.39	7.05
2005	—	1.81	1.81	9.40	14.39	17.51	17.38	6.59	7.19	14.51	1.47	9.76	13.38	10.42
2006	—	2.31	2.31	8.36	16.44	19.41	19.92	7.72	10.99	17.22	1.35	10.38	14.42	11.12
2007	—	2.18	2.18	8.47	18.50	21.84	22.43	8.51	13.02	19.27	1.35	10.30	13.89	10.94
2008	—	2.46	2.46	9.23	24.88	26.11	25.59	12.35	14.21	23.65	1.38	12.34	14.09	12.63
2009	—	2.65	2.65	6.19	14.90	20.42	18.73	7.98	17.46	18.10	1.35	9.16	15.46	10.17
2010	—	2.52	2.52	6.06	18.86	15.33	22.18	11.66	R 22.06	R 17.79	1.38	R 8.67	15.71	R 9.78
2011	—	2.56	2.56	5.73	25.50	17.95	28.21	15.63	R 24.33	R 22.10	2.17	R 9.72	15.28	R 10.63
2012	—	2.61	2.61	4.64	25.70	12.18	28.80	16.91	R 24.06	R 20.22	2.14	R 8.53	15.52	R 9.72
2013	—	2.57	2.57	5.28	25.10	11.73	28.09	16.68	R 20.21	R 18.25	2.02	R 8.73	16.48	R 9.97
2014	—	2.49	2.49	7.30	23.42	13.04	26.86	15.95	R 20.15	R 18.26	2.11	R 9.86	16.74	R 11.00
2015	—	2.49	2.49	5.03	15.04	7.27	19.28	—	R 20.14	R 12.62	2.13	R 6.98	17.28	R 8.74
2016	—	2.37	2.37	4.45	12.10	7.01	17.15	—	R 16.02	R 10.76	1.83	R 6.13	17.73	R 8.14
2017	—	2.29	2.29	4.94	14.63	9.32	19.25	9.80	16.75	12.87	1.83	6.77	18.19	8.60
2018	—	2.16	2.16	5.07	17.76	10.67	21.34	11.12	19.51	15.08	2.92	7.30	18.92	9.16
2019	—	1.94	1.94	4.04	16.73	8.20	20.34	11.32	R 19.73	13.47	2.79	6.37	19.34	8.47
2020	—	1.92	1.92	4.20	12.33	7.27	16.69	—	R 16.22	R 11.08	2.76	5.91	18.84	8.10
2021	—	1.85	1.85	6.63	17.42	11.45	23.58	12.53	R 21.12	15.72	2.54	8.66	19.44	10.64
2022	—	1.83	1.83	R 8.13	28.50	13.22	31.05	20.03	R 30.68	R 22.63	R 2.63	R 11.12	20.70	12.83
2023	—	1.81	1.81	6.61	23.47	9.03	27.53	17.98	25.35	18.16	2.65	9.04	20.25	11.07
	Expenditures in million dollars													
1970	—	17.8	17.8	36.3	25.8	13.0	80.0	0.9	28.5	148.2	3.2	205.6	70.5	276.1
1975	—	35.1	35.1	94.6	58.6	51.2	91.5	3.4	51.0	255.7	4.3	389.7	142.6	532.3
1980	—	51.6	51.6	288.2	144.4	117.6	136.7	5.0	114.3	518.0	31.0	888.7	332.9	1,221.6
1985	—	58.9	58.9	340.2	182.0	151.3	84.8	4.6	116.6	539.2	36.3	976.1	438.4	1,414.4
1990	—	71.3	71.3	259.0	162.7	56.5	52.8	1.4	72.9	346.3	13.7	691.2	453.3	1,144.5
1995	—	80.9	80.9	364.8	159.8	332.6	47.4	1.4	87.6	628.8	12.3	1,086.8	541.9	1,628.7
2000	—	86.1	86.1	549.4	279.3	532.4	47.9	2.9	144.3	1,006.8	2.1	1,644.4	665.4	2,309.8
2005	—	107.3	107.3	908.2	380.8	950.5	141.5	7.9	169.9	1,650.6	6.5	2,672.7	817.8	3,490.4
2006	—	140.6	140.6	855.7	421.4	1,085.5	175.9	2.2	218.6	1,903.5	8.9	2,908.8	902.2	3,811.0
2007	—	132.4	132.4	1,206.0	501.2	884.8	160.7	2.4	213.8	1,762.9	10.0	3,111.4	906.1	4,017.4
2008	—	141.7	141.7	1,514.3	810.1	1,229.2	144.0	13.2	232.6	2,429.2	10.3	4,095.5	924.8	5,020.3
2009	—	139.6	139.6	1,024.9	477.1	990.4	109.8	3.3	248.6	1,829.2	11.7	3,005.4	960.5	3,965.9
2010	—	166.6	166.6	1,021.3	666.3	713.9	148.4	1.5	R 249.1	R 1,779.2	12.9	R 2,980.0	1,011.3	R 3,991.3
2011	—	180.4	180.4	966.6	875.2	787.0	193.6	3.1	R 263.4	R 2,122.3	3.6	R 3,272.9	1,002.8	R 4,275.7
2012	—	165.8	165.8	793.9	932.4	439.8	143.6	0.9	R 305.5	R 1,822.1	3.3	R 2,785.1	1,033.2	R 3,818.3
2013	—	165.4	165.4	942.4	894.1	585.7	137.9	0.6	R 346.0	R 1,964.4	3.7	R 3,075.9	1,104.0	R 4,179.9
2014	—	146.2	146.2	1,306.6	896.6	656.8	104.9	0.6	R 337.9	R 1,996.8	7.1	R 3,456.8	1,166.9	R 4,623.7
2015	—	131.0	131.0	947.5	663.4	334.8	73.0	—	R 304.7	R 1,375.9	5.8	R 2,460.1	1,255.1	R 3,715.3
2016	—	107.4	107.4	891.2	551.2	323.9	75.8	—	R 254.9	R 1,205.7	4.5	R 2,208.9	1,333.5	R 3,542.3
2017	—	102.3	102.3	1,256.6	626.9	438.3	85.6	1.0	276.2	1,428.1	3.7	2,790.6	1,431.7	4,222.3
2018	—	94.8	94.8	1,374.9	754.1	503.4	93.8	0.8	292.8	1,644.8	11.5	3,126.0	1,546.0	4,672.0
2019	—	83.1	83.1	1,074.5	767.6	419.9	81.9	1.1	R 291.5	R 1,562.0	12.5	R 2,732.2	1,599.7	R 4,331.8
2020	—	74.2	74.2	1,052.4	557.9	338.0	68.4	—	R 309.0	R 1,273.3	12.1	R 2,412.0	1,572.4	R 3,984.4
2021	—	69.1	69.1	1,612.7	762.7	521.9	98.8	1.2	R 343.5	R 1,728.1	12.1	R 3,421.9	1,731.6	R 5,153.6
2022	—	77.7	77.7	2,131.4	1,261.4	576.4	134.4	1.9	R 436.9	R 2,411.1	R 14.9	R 4,635.0	1,874.7	R 6,509.7
2023	—	68.5	68.5	1,791.4	1,013.9	381.2	102.7	1.4	427.2	1,926.4	15.3	3,801.5	1,880.4	5,681.9

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[i] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET6. Transportation sector energy price and expenditure estimates, selected years, 1970-2023, Iowa

Year	Primary energy											Electricity [g]	Total energy [f]
			Petroleum										
	Coal	Natural gas[a]	Aviation gasoline	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Lubricants	Motor gasoline [e]	Residual fuel oil	Total	Total [f]		
	Prices in dollars per million Btu												
1970	0.41	—	2.17	1.27	1.15	0.75	5.08	2.83	0.66	2.60	2.60	—	2.60
1975	1.24	—	3.45	2.65	2.38	2.09	7.48	4.59	—	4.24	4.24	—	4.24
1980	—	—	9.02	6.97	4.67	6.47	14.36	9.97	—	9.34	9.34	—	9.34
1985	—	—	9.99	6.85	9.71	6.28	18.18	9.47	—	8.95	8.96	—	8.96
1990	—	6.43	9.32	8.74	7.30	6.11	20.61	9.38	1.82	9.31	9.31	—	9.31
1995	—	2.96	8.36	7.79	12.68	4.22	21.75	8.77	—	8.58	8.58	—	8.58
2000	—	6.03	10.87	10.62	15.91	6.96	23.20	11.74	—	11.51	11.51	15.56	11.51
2005	—	8.20	18.56	16.85	21.33	13.57	35.22	17.38	—	17.32	17.32	—	17.32
2006	—	10.09	22.31	19.13	22.97	15.21	43.88	19.92	—	19.81	19.81	20.66	19.81
2007	—	11.56	23.70	20.78	25.17	16.48	47.16	22.43	—	22.01	22.01	—	22.01
2008	—	—	27.23	27.21	29.12	22.81	55.12	25.59	—	26.35	26.35	—	26.35
2009	—	—	20.32	17.68	23.95	12.94	56.07	18.73	—	18.65	18.65	—	18.65
2010	—	—	25.19	21.32	26.27	16.79	58.80	22.18	—	22.06	22.06	—	22.06
2011	—	—	31.64	27.37	29.50	23.03	69.54	28.21	—	28.12	28.12	—	28.12
2012	—	—	33.04	28.08	22.33	23.44	72.11	28.80	—	28.73	28.73	—	28.73
2013	—	R 8.06	32.71	28.13	23.63	22.81	69.42	28.09	—	28.28	28.28	—	28.28
2014	—	R 8.99	33.16	27.43	26.26	20.10	69.44	26.86	—	27.22	27.22	—	27.22
2015	—	R 9.04	24.86	19.03	16.63	11.88	67.28	19.28	—	19.40	19.40	—	19.40
2016	—	R 8.71	21.62	16.30	15.88	9.72	65.78	17.15	—	17.07	17.06	—	17.06
2017	—	R 8.95	24.13	18.73	20.13	12.41	67.25	19.25	—	19.23	19.23	—	19.23
2018	—	R 9.34	27.04	22.43	20.75	15.64	72.37	21.34	—	21.90	21.90	—	21.90
2019	—	R 9.22	25.57	21.31	17.23	14.37	74.92	20.34	—	20.86	20.86	—	20.86
2020	—	R 9.20	22.34	17.50	16.18	10.01	75.34	16.69	—	17.23	17.23	—	17.23
2021	—	R 9.77	28.86	23.16	25.06	15.18	81.25	23.58	—	23.59	23.59	—	23.59
2022	—	R 10.19	36.02	35.28	24.95	26.31	97.37	31.05	—	R 32.90	32.89	—	32.89
2023	—	11.32	32.62	29.65	20.11	21.08	105.48	27.53	—	28.49	28.49	—	28.49
	Expenditures in million dollars												
1970	(s)	—	2.8	32.2	0.3	3.0	14.8	446.0	0.1	499.1	499.2	—	499.2
1975	(s)	—	3.3	105.7	0.5	9.8	22.7	842.8	—	984.9	984.9	—	984.9
1980	—	—	8.4	321.6	0.6	29.6	45.4	1,698.2	—	2,103.8	2,103.8	—	2,103.8
1985	—	—	4.2	323.0	3.3	20.9	52.3	1,469.4	—	1,873.1	1,898.4	—	1,898.4
1990	—	(s)	4.7	476.1	1.2	30.7	66.8	1,501.4	(s)	2,080.7	2,108.4	—	2,108.4
1995	—	(s)	3.0	488.1	2.8	25.0	67.2	1,522.3	—	2,108.6	2,108.6	—	2,108.6
2000	—	0.2	4.3	744.6	0.5	30.5	76.6	2,164.0	—	3,020.5	3,020.8	(s)	3,020.8
2005	—	(s)	13.0	1,482.0	5.1	76.2	98.1	3,329.5	—	5,003.8	5,003.8	—	5,003.8
2006	—	(s)	5.8	1,748.8	5.4	89.1	119.1	3,860.0	—	5,828.2	5,828.2	0.1	5,828.2
2007	—	(s)	5.4	2,075.7	7.4	84.1	132.1	4,295.1	—	6,599.8	6,599.8	—	6,599.8
2008	—	—	10.6	2,603.3	15.1	101.7	143.4	4,795.6	—	7,669.7	7,669.7	—	7,669.7
2009	—	—	9.4	R 1,619.6	12.7	38.5	131.2	3,496.8	—	R 5,308.1	R 5,308.1	—	R 5,308.1
2010	—	—	8.9	R 2,071.3	0.9	94.2	123.1	4,181.6	—	R 6,480.1	R 6,480.1	—	R 6,480.1
2011	—	—	10.5	R 2,691.7	0.9	132.9	140.9	5,361.1	—	R 8,338.0	R 8,338.0	—	R 8,338.0
2012	—	—	9.7	R 2,642.3	0.6	141.4	130.2	5,160.1	—	R 8,084.3	R 8,084.3	—	R 8,084.3
2013	—	0.1	7.9	R 2,687.8	0.9	126.0	131.6	5,110.3	—	R 8,064.5	R 8,064.6	—	R 8,064.6
2014	—	0.2	8.3	R 2,747.4	0.9	108.7	138.3	5,013.6	—	R 8,017.2	R 8,017.4	—	R 8,017.4
2015	—	R 0.3	6.0	R 1,849.2	0.8	70.8	142.0	3,516.6	—	R 5,585.4	R 5,585.7	—	R 5,585.7
2016	—	R 0.3	4.4	R 1,587.0	0.9	57.6	137.3	3,446.5	—	R 5,233.6	R 5,233.9	—	R 5,233.9
2017	—	R 0.4	5.1	R 1,844.1	3.7	80.1	123.9	3,518.9	—	R 5,575.9	R 5,576.3	—	R 5,576.3
2018	—	R 0.4	5.7	R 2,261.1	16.3	R 101.1	126.9	3,864.5	—	R 6,375.7	R 6,376.1	—	R 6,376.1
2019	—	R 0.4	5.9	R 2,185.3	14.3	R 92.7	R 126.9	3,660.8	—	R 6,085.9	R 6,086.3	—	R 6,086.3
2020	—	R 0.3	4.8	R 1,790.9	1.8	R 45.7	R 117.1	2,636.8	—	R 4,597.1	R 4,597.4	—	R 4,597.4
2021	—	R 0.3	6.5	R 2,388.8	2.8	86.4	R 130.8	4,165.5	—	R 6,780.8	R 6,781.1	—	R 6,781.1
2022	—	0.1	8.5	R 3,749.5	3.1	R 167.3	R 168.2	5,429.8	—	R 9,526.3	R 9,526.4	—	R 9,526.4
2023	—	0.1	7.3	3,097.0	1.9	136.5	131.1	4,824.7	—	8,198.4	8,198.5	—	8,198.5

[a] Transportation use of natural gas as vehicle fuel only.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET7. Electric power sector price and expenditure estimates, selected years, 1970-2023, Iowa

Year	Coal	Natural gas [a]	Petroleum: Distillate fuel oil	Petroleum: Petroleum coke	Petroleum: Residual fuel oil	Petroleum: Total	Nuclear fuel	Biomass: Wood and waste [b]	Electricity imports [c]	Total energy [d]
	Prices in dollars per million Btu									
1970	0.32	0.27	0.75	—	0.70	0.74	—	0.65	—	0.30
1975	0.85	0.68	2.11	—	1.93	2.05	0.25	0.92	—	0.75
1980	1.39	2.41	6.06	—	3.78	5.41	0.39	1.74	—	1.32
1985	1.48	3.61	5.93	—	3.99	5.88	0.94	0.79	9.34	1.57
1990	1.12	3.05	5.18	—	—	5.18	0.66	1.60	—	1.11
1995	0.99	2.71	4.09	—	—	4.09	0.74	1.50	—	0.99
2000	0.82	4.55	6.43	—	—	6.43	0.61	0.22	—	0.85
2005	0.96	8.81	11.31	—	—	11.31	0.55	1.62	16.53	1.35
2006	1.03	7.82	15.32	1.46	—	9.48	0.55	1.21	—	1.33
2007	1.06	7.67	17.45	1.94	—	11.80	0.63	1.39	—	1.47
2008	1.18	9.18	22.19	2.09	—	13.03	0.58	1.52	—	1.45
2009	1.23	4.93	13.32	2.20	—	10.10	0.57	1.43	—	1.26
2010	1.33	5.64	16.56	1.96	—	10.41	0.65	2.40	—	1.42
2011	1.43	5.44	22.91	1.60	—	13.00	0.70	2.44	—	1.48
2012	1.48	3.76	22.91	1.99	—	20.75	0.77	2.21	—	1.56
2013	1.67	4.61	22.54	—	—	22.54	0.84	2.26	—	1.70
2014	1.67	5.89	21.66	—	—	21.66	0.80	2.73	—	1.73
2015	1.62	3.07	12.24	—	—	12.24	0.71	2.62	—	1.58
2016	1.59	2.66	10.95	—	—	10.95	0.67	2.54	—	1.56
2017	1.66	3.03	13.09	—	—	13.09	0.76	2.40	—	1.67
2018	1.63	2.94	16.27	—	—	16.27	0.75	2.22	—	1.72
2019	1.54	2.60	14.56	—	—	14.56	0.69	2.33	—	1.60
2020	1.51	2.04	9.65	—	—	9.65	0.65	1.80	—	1.54
2021	1.60	4.10	15.77	—	—	15.77	—	2.39	—	2.09
2022	1.81	R 6.05	26.04	—	—	26.04	—	2.69	—	R 2.97
2023	1.76	2.87	21.80	—	—	21.80	—	2.93	—	2.18
	Expenditures in million dollars									
1970	27.0	21.5	1.4	—	0.2	1.6	—	0.3	—	50.4
1975	85.0	32.0	6.2	—	2.6	8.8	6.3	0.4	—	132.5
1980	277.7	16.6	5.9	—	1.5	7.4	10.9	0.5	—	313.1
1985	335.3	7.7	3.5	—	0.1	3.6	19.3	0.5	33.8	400.1
1990	308.5	12.8	3.7	—	—	3.7	21.1	0.3	—	346.5
1995	308.1	12.7	3.7	—	—	3.7	28.8	1.0	—	354.4
2000	308.7	21.7	8.3	—	—	8.3	28.5	0.2	—	367.4
2005	348.8	188.2	23.3	—	—	23.3	26.1	1.6	(s)	588.0
2006	379.3	154.1	24.0	1.7	—	25.7	29.2	1.3	—	589.6
2007	420.9	200.5	44.7	2.8	—	47.5	29.7	2.1	—	700.7
2008	498.1	163.7	23.0	1.8	—	24.9	32.1	2.5	—	721.3
2009	473.6	49.8	9.8	0.7	—	10.5	27.9	2.1	—	563.9
2010	562.1	71.5	17.5	1.5	—	19.0	30.4	3.7	—	686.7
2011	553.5	54.5	20.9	1.3	—	22.1	38.0	3.5	—	671.6
2012	524.1	63.4	26.9	0.3	—	27.2	34.9	3.1	—	652.6
2013	557.8	57.0	23.8	—	—	23.8	46.5	3.1	—	688.3
2014	563.7	64.7	15.9	—	—	15.9	34.6	4.7	—	683.5
2015	473.8	52.6	6.7	—	—	6.7	39.1	4.9	—	577.0
2016	397.4	58.7	10.3	—	—	10.3	32.8	4.9	—	504.1
2017	419.0	94.6	9.1	—	—	9.1	41.2	4.6	—	568.4
2018	455.1	149.2	12.2	—	—	12.2	38.1	4.0	—	658.5
2019	341.8	132.5	11.5	—	—	11.5	37.5	3.8	—	527.1
2020	215.5	96.9	7.3	—	—	7.3	19.7	3.2	—	342.6
2021	360.0	188.1	22.4	—	—	22.4	—	4.3	—	574.8
2022	332.3	R 356.5	34.9	—	—	34.9	—	4.2	—	R 728.0
2023	287.5	208.0	18.6	—	—	18.6	—	4.5	—	518.5

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[c] Electricity imported from Canada and Mexico.
[d] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET1. Primary energy, electricity, and total energy price and expenditure estimates, selected years, 1970-2023, Kansas

Year	Primary energy														Electric power sector [i,k,l]	Electricity [m]	Total energy [h,i,j]
	Coal				Petroleum								Biomass				
	Coking coal	Steam coal	Total	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Nuclear fuel	Wood and waste [g,h]	Total [h,i,j,k]			
	Prices in dollars per million Btu																
1970	—	0.34	0.34	0.39	0.99	1.28	0.75	2.64	0.47	1.62	2.02	—	2.53	0.99	0.30	5.74	1.56
1975	—	0.68	0.68	0.67	2.43	2.73	2.09	4.50	1.60	3.20	3.49	—	2.76	1.90	0.72	7.72	2.89
1980	—	1.08	1.08	2.14	6.52	4.60	6.47	9.27	3.24	6.51	7.60	—	3.06	3.90	1.38	13.75	6.00
1985	—	1.41	1.41	3.58	6.55	4.63	5.94	9.28	3.91	9.38	7.36	0.84	3.46	4.34	1.44	19.07	7.31
1990	—	1.24	1.24	3.30	7.53	4.81	5.57	8.90	2.10	7.02	7.53	0.30	2.98	4.02	1.08	19.31	7.65
1995	—	1.03	1.03	3.22	6.72	7.50	4.19	8.55	2.48	7.04	7.55	0.39	2.76	3.69	0.91	19.27	7.75
2000	—	0.99	0.99	5.48	9.44	11.36	6.85	11.48	3.68	10.25	10.54	0.44	4.15	5.22	1.13	18.42	10.41
2005	—	1.13	1.13	9.56	16.28	15.67	13.71	17.62	5.24	13.69	16.15	0.42	5.46	7.51	1.29	19.23	14.90
2006	—	1.21	1.21	9.07	18.30	17.42	14.70	19.93	6.50	17.86	18.84	0.41	7.45	8.46	1.29	20.25	16.19
2007	—	1.24	1.24	9.09	20.11	21.51	16.00	22.34	8.53	18.88	21.07	0.43	8.23	9.43	1.33	20.08	17.32
2008	—	1.42	1.42	10.40	26.40	23.35	22.77	25.49	12.32	24.18	25.27	0.42	10.19	10.98	1.62	21.89	19.85
2009	—	1.44	1.44	7.13	16.73	19.27	12.61	18.43	7.93	22.58	17.76	0.46	7.73	7.90	1.44	23.43	15.67
2010	—	1.52	1.52	7.40	20.50	20.01	16.27	22.03	11.63	R 18.97	R 20.94	0.62	7.38	8.91	1.55	24.52	R 17.57
2011	—	1.76	1.76	6.89	26.74	22.27	22.56	28.02	15.67	R 26.45	27.02	0.69	5.80	10.81	1.80	26.11	R 20.35
2012	—	1.84	1.84	5.72	27.33	18.30	22.97	28.61	16.96	R 26.78	27.47	0.70	6.03	11.05	1.73	27.42	20.98
2013	—	1.78	1.78	6.98	27.32	18.47	22.06	27.91	16.72	27.41	27.16	0.75	6.08	11.38	1.78	28.68	R 21.14
2014	—	1.80	1.80	7.70	26.42	23.38	20.59	26.68	15.98	R 28.89	26.33	0.65	R 6.28	R 11.52	1.75	29.97	21.21
2015	—	1.71	1.71	6.43	17.99	14.49	11.88	19.15	10.29	R 24.69	R 18.56	0.64	R 4.08	8.68	1.55	29.94	17.01
2016	—	1.70	1.70	5.81	15.12	13.03	9.72	17.03	7.35	R 22.34	16.10	0.66	R 3.30	7.82	1.56	31.03	16.02
2017	—	1.72	1.72	6.47	17.53	16.64	12.10	19.12	9.84	27.96	18.40	0.64	R 3.12	R 8.75	1.52	31.36	17.31
2018	—	1.71	1.71	R 6.31	21.12	17.88	15.64	21.20	11.17	30.04	21.10	0.58	R 3.61	9.71	1.56	31.68	R 18.33
2019	—	1.62	1.62	5.68	20.12	15.05	14.37	20.20	11.38	30.29	20.05	0.57	R 3.84	9.48	1.45	30.33	17.32
2020	—	1.56	1.56	R 5.39	15.88	13.52	9.10	16.58	8.42	25.99	16.25	0.56	R 2.56	7.76	1.33	30.68	15.48
2021	—	1.44	1.44	7.61	R 21.52	20.27	14.48	23.42	12.59	R 27.77	22.39	0.62	R 2.83	10.58	1.87	30.97	19.06
2022	—	1.89	1.89	R 10.12	33.53	22.43	25.89	30.84	20.12	R 36.98	R 31.68	0.63	R 4.61	R 14.56	R 2.10	33.87	R 24.67
2023	—	1.72	1.72	8.14	28.07	19.34	20.75	27.35	18.07	35.27	27.39	0.62	5.64	12.85	1.57	31.92	22.19
	Expenditures in million dollars																
1970	—	3.7	3.7	175.6	43.3	37.7	6.4	399.6	1.5	42.5	531.0	—	3.4	713.8	-53.9	259.0	918.9
1975	—	42.5	42.5	248.1	159.8	87.0	15.0	756.2	49.8	79.6	1,147.4	—	6.6	1,444.6	-159.5	444.0	1,729.1
1980	—	207.0	207.0	808.1	560.3	134.6	89.3	1,440.7	17.9	225.1	2,467.9	—	4.6	3,487.5	-394.3	986.7	4,079.8
1985	—	365.8	365.8	960.1	568.1	382.5	147.6	1,375.6	1.3	218.5	2,693.5	34.2	6.6	4,077.3	-452.8	1,520.6	5,145.2
1990	—	337.3	337.3	872.1	732.0	250.2	115.4	1,338.4	2.3	261.5	2,699.9	25.0	9.6	3,949.3	-409.8	1,774.7	5,314.2
1995	—	297.1	297.1	892.7	712.5	130.6	57.2	1,309.0	0.3	236.6	2,446.2	41.4	7.3	3,684.8	-380.6	1,980.7	5,285.0
2000	—	358.2	358.2	1,359.9	815.7	681.6	125.7	1,903.5	17.8	261.8	3,806.0	41.9	7.4	5,573.5	-558.6	2,241.9	7,256.8
2005	—	428.8	428.8	1,934.9	1,718.5	165.5	136.6	2,576.2	67.4	323.9	4,988.2	38.4	10.8	7,401.1	-636.8	2,539.0	9,303.3
2006	—	439.2	439.2	1,937.3	2,014.3	125.0	146.1	3,265.2	24.4	405.7	5,980.7	40.1	10.5	8,407.9	-621.1	2,721.6	10,508.3
2007	—	492.8	492.8	2,190.1	2,255.0	1,290.9	140.0	3,673.4	23.9	424.0	7,807.1	46.5	12.8	10,549.3	-700.4	2,728.6	12,577.4
2008	—	529.6	529.6	2,521.6	3,066.5	322.5	224.0	4,061.5	91.7	425.9	8,192.2	37.1	17.4	11,297.8	-786.9	2,959.0	13,469.9
2009	—	511.7	511.7	1,694.7	1,880.9	256.1	175.0	2,979.4	21.0	395.2	R 5,707.5	42.6	13.4	R 7,970.0	-689.2	3,029.1	R 10,309.9
2010	—	546.4	546.4	1,705.6	2,266.5	246.9	175.9	3,546.8	25.2	R 422.8	R 6,683.9	62.1	18.3	R 9,016.3	-754.5	3,351.6	R 11,613.4
2011	—	608.8	608.8	1,631.6	R 2,872.5	265.5	221.4	4,352.6	26.4	R 362.4	R 8,100.7	52.6	24.0	R 10,417.6	-814.7	3,597.9	R 13,200.8
2012	—	566.0	566.0	1,248.6	R 2,951.3	175.3	247.4	4,448.5	26.3	R 364.7	R 8,213.6	60.7	21.9	R 10,110.7	-739.4	3,733.1	R 13,104.5
2013	—	580.8	580.8	1,569.1	R 3,415.3	205.5	140.5	4,359.4	18.4	R 375.6	R 8,514.8	56.4	27.2	R 10,748.4	-754.6	3,790.1	R 13,783.9
2014	—	568.5	568.5	1,754.3	R 3,692.1	271.5	197.3	4,233.4	17.9	R 384.5	R 8,796.7	58.2	R 27.5	R 11,205.2	-739.6	4,032.6	R 14,498.1
2015	—	467.6	467.6	R 1,415.3	R 2,329.3	162.2	83.9	2,976.2	15.6	R 346.6	R 5,913.7	57.9	R 16.5	R 7,870.9	-586.6	3,957.2	R 11,241.5
2016	—	431.5	431.5	R 1,281.7	R 1,802.5	116.2	83.8	2,806.0	26.4	R 277.2	R 5,112.1	56.8	R 12.0	R 6,894.1	-559.4	4,188.6	R 10,523.3
2017	—	373.2	373.2	R 1,441.5	R 2,123.1	148.5	82.1	3,010.6	37.0	243.1	R 5,644.5	71.2	R 11.7	R 7,542.1	-529.2	4,172.3	R 11,185.2
2018	—	390.0	390.0	R 1,614.9	R 2,735.2	200.2	121.2	3,287.5	25.0	280.4	R 6,649.5	56.0	R 16.9	R 8,727.3	-547.1	4,412.4	R 12,592.6
2019	—	321.1	321.1	R 1,465.7	2,572.4	192.7	R 105.9	3,287.6	35.4	292.6	R 6,486.6	55.1	R 17.0	R 8,345.6	-468.7	4,136.8	R 12,013.8
2020	—	302.6	302.6	R 1,333.6	R 1,982.5	159.6	57.6	2,480.7	29.9	R 273.0	R 4,983.5	62.4	R 9.8	R 6,691.9	-437.1	4,015.9	R 10,270.7
2021	—	315.9	315.9	R 1,848.5	R 2,653.4	225.9	106.4	3,554.6	38.8	R 328.1	R 6,907.3	55.1	R 11.3	R 9,138.1	-623.4	4,155.6	R 12,670.2
2022	—	428.7	428.7	R 2,741.6	R 4,559.5	269.5	R 211.7	4,487.4	63.4	R 452.2	R 10,043.6	59.3	R 18.8	R 13,292.0	R -738.9	4,714.3	R 17,267.4
2023	—	317.9	317.9	2,141.8	3,724.5	195.5	181.5	4,210.8	47.3	363.0	8,722.7	66.5	15.1	11,264.0	-523.4	4,348.5	15,089.1

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[l] Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
[m] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET2. Total end-use energy price and expenditure estimates, selected years, 1970-2023, Kansas

Year	Primary energy											Electricity [k]	Total energy [h,i,j]
			Petroleum							Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g,h]	Total [h,i,j]		
	Prices in dollars per million Btu												
1970	0.47	0.45	0.99	1.28	0.75	2.64	0.45	1.62	2.04	2.53	1.22	5.74	1.56
1975	0.92	0.78	2.49	2.73	2.09	4.50	1.82	3.20	3.70	2.76	2.38	7.72	2.89
1980	1.32	2.27	6.54	4.60	6.47	9.27	2.54	6.51	7.65	3.06	5.08	13.75	6.00
1985	1.69	3.63	6.56	4.63	5.94	9.28	3.86	9.38	7.37	3.46	5.81	19.07	7.31
1990	1.18	3.48	7.54	4.81	5.57	8.90	2.13	7.02	7.53	2.98	5.88	19.31	7.65
1995	1.33	3.40	6.75	7.50	4.19	8.55	2.51	7.04	7.56	2.76	5.70	19.27	7.75
2000	1.27	5.70	9.49	11.36	6.85	11.48	3.97	10.25	10.63	4.15	8.72	18.42	10.41
2005	1.68	9.70	16.31	15.67	13.71	17.62	4.56	13.69	16.55	5.46	13.74	19.23	14.90
2006	2.00	9.41	18.32	17.42	14.70	19.93	6.50	17.86	18.85	7.45	15.13	20.25	16.19
2007	2.12	9.44	20.13	21.51	16.00	22.34	8.53	20.73	21.19	8.23	16.69	20.08	17.32
2008	2.44	10.70	26.41	23.35	22.77	25.49	12.32	26.25	25.38	10.19	19.34	21.89	19.85
2009	2.53	7.62	16.74	19.27	12.61	18.43	7.93	24.59	17.84	7.73	13.77	23.43	15.67
2010	2.61	7.74	20.52	20.01	16.27	22.03	11.63	R 19.92	R 21.02	8.91	R 15.76	24.52	R 17.57
2011	2.44	7.22	26.76	22.27	22.56	28.02	15.67	R 27.15	27.06	6.47	R 18.80	26.11	R 20.35
2012	2.85	6.17	27.35	18.30	22.97	28.61	16.96	R 26.78	27.48	6.84	19.18	27.42	20.98
2013	2.49	7.27	27.34	18.47	22.06	27.91	16.72	27.41	R 27.16	6.98	19.23	28.68	R 21.14
2014	2.46	7.90	26.44	23.38	20.59	26.68	15.98	R 28.89	26.34	R 7.04	19.07	29.97	21.21
2015	2.26	6.63	18.02	14.49	11.88	19.15	10.29	R 24.69	18.57	R 4.40	13.77	29.94	17.01
2016	2.45	6.07	15.13	13.03	9.72	17.03	7.35	R 22.34	R 16.11	R 3.49	12.14	31.03	16.02
2017	2.18	R 6.75	17.56	16.64	12.10	19.12	9.84	27.96	18.41	R 3.28	R 13.66	31.36	17.31
2018	2.36	R 6.71	21.14	17.88	15.64	21.20	11.17	30.04	21.11	R 3.88	14.94	31.68	R 18.33
2019	2.30	6.04	20.16	15.05	14.37	20.20	11.38	30.29	20.07	R 4.14	14.13	30.33	17.32
2020	2.92	5.70	15.93	13.52	9.10	16.58	8.42	25.99	16.27	R 2.75	11.74	30.68	15.48
2021	2.91	R 7.40	21.64	20.27	14.48	23.42	12.59	R 27.77	22.44	R 2.93	16.05	30.97	19.06
2022	3.20	10.50	33.61	22.43	25.89	30.84	20.12	R 36.98	31.70	R 5.01	R 22.39	33.87	R 24.67
2023	3.60	9.09	28.12	19.34	20.75	27.35	18.07	35.27	27.41	6.71	19.76	31.92	22.19
	Expenditures in million dollars												
1970	1.1	126.1	42.7	37.7	6.4	399.6	0.3	42.5	529.2	3.4	659.9	259.0	918.9
1975	2.5	187.5	141.1	87.0	15.0	756.2	9.5	79.6	1,088.5	6.6	1,285.1	444.0	1,729.1
1980	9.6	635.6	547.5	134.6	89.3	1,440.7	6.1	225.1	2,443.4	4.6	3,093.2	986.7	4,079.8
1985	13.2	901.0	561.8	382.5	147.6	1,375.6	0.8	218.5	2,686.7	6.6	3,624.5	1,520.6	5,145.2
1990	4.5	824.4	727.9	250.2	115.4	1,338.4	2.1	261.5	2,695.5	9.6	3,539.4	1,774.7	5,314.2
1995	5.7	848.2	709.3	130.6	57.2	1,309.0	0.3	236.6	2,443.0	7.3	3,304.2	1,980.7	5,285.0
2000	4.4	1,219.5	805.0	681.6	125.7	1,903.5	5.9	261.8	3,783.5	7.4	5,014.9	2,241.9	7,256.8
2005	8.4	1,825.2	1,708.3	165.5	136.6	2,576.2	9.3	323.9	4,919.8	10.8	6,764.3	2,539.0	9,303.3
2006	11.4	1,795.2	2,003.3	125.0	146.1	3,265.2	24.4	405.7	5,969.7	10.5	7,786.8	2,721.6	10,508.3
2007	12.2	2,028.8	2,245.9	1,290.9	140.0	3,673.4	23.9	421.0	7,795.0	12.8	9,848.8	2,728.6	12,577.4
2008	9.8	2,305.5	3,054.8	322.5	224.0	4,061.5	91.7	423.6	8,178.2	17.4	10,510.9	2,959.0	13,469.9
2009	6.3	1,562.4	R 1,874.5	256.1	175.0	2,979.4	21.0	392.8	R 5,698.7	13.4	R 7,280.8	3,029.1	R 10,309.9
2010	6.9	1,564.7	2,257.3	246.9	175.9	3,546.8	25.2	R 421.4	R 6,673.4	16.9	R 8,261.8	3,351.6	R 11,613.4
2011	6.1	1,485.5	R 2,861.4	265.5	221.4	4,352.6	26.4	R 361.8	R 8,089.0	22.3	R 9,602.9	3,597.9	R 13,200.8
2012	5.7	1,141.9	R 2,941.0	175.3	247.4	4,448.5	26.3	R 364.7	R 8,203.3	20.5	R 9,371.3	3,733.1	R 13,104.5
2013	5.1	1,462.7	R 3,401.2	205.5	140.5	4,359.4	18.4	R 375.6	R 8,500.7	25.3	R 9,993.8	3,790.1	R 13,783.9
2014	7.3	1,650.1	R 3,678.2	271.5	197.3	4,233.4	17.9	R 384.5	R 8,782.8	R 25.4	R 10,465.6	4,032.6	R 14,498.1
2015	6.2	R 1,357.5	R 2,321.6	162.2	83.9	2,976.2	15.6	R 346.6	R 5,906.0	R 14.5	R 7,284.3	3,957.2	R 11,241.5
2016	5.6	R 1,210.7	R 1,798.5	116.2	83.8	2,806.0	26.4	R 277.2	5,108.2	R 10.2	R 6,334.7	4,188.6	R 10,523.3
2017	5.3	R 1,362.3	R 2,113.9	148.5	82.1	3,010.6	37.0	243.1	R 5,635.3	R 10.0	R 7,012.9	4,172.3	R 11,185.2
2018	6.0	R 1,520.7	R 2,724.0	200.2	121.2	3,287.5	25.0	280.4	R 6,638.3	R 15.2	R 8,180.2	4,412.4	R 12,592.6
2019	4.2	R 1,385.9	R 2,557.4	192.7	R 105.9	3,287.6	35.4	292.6	R 6,471.6	R 15.3	R 7,876.9	4,136.8	R 12,013.8
2020	3.6	R 1,269.9	R 1,971.9	159.6	57.6	2,480.7	29.9	R 273.0	R 4,972.8	R 8.4	R 6,254.8	4,015.9	R 10,270.7
2021	3.5	R 1,625.2	R 2,622.4	225.9	106.4	3,554.6	38.8	R 328.1	R 6,876.2	R 9.7	R 8,514.6	4,155.6	R 12,670.2
2022	5.8	R 2,519.1	R 4,527.2	269.5	R 211.7	4,487.4	63.4	R 452.2	R 10,011.4	R 16.9	R 12,553.1	4,714.3	R 17,267.4
2023	9.2	2,014.3	3,706.0	195.5	181.5	4,210.8	47.3	363.0	8,704.2	12.9	10,740.6	4,348.5	15,089.1

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. · Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2023, Kansas

Year	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
	Prices in dollars per million Btu									
1970	0.91	0.69	1.19	1.51	1.40	1.50	0.61	0.83	7.17	1.68
1975	—	1.05	2.62	3.30	2.84	3.27	1.20	1.42	9.23	2.54
1980	2.15	2.38	6.85	6.83	7.68	6.83	3.06	2.82	15.75	5.46
1985	2.31	4.12	6.43	6.52	7.77	6.55	3.46	4.29	21.98	8.60
1990	1.88	4.48	6.22	7.86	8.22	7.81	3.56	4.67	22.95	10.03
1995	1.19	4.89	7.14	6.72	4.97	6.71	2.90	4.98	23.22	10.38
2000	1.59	7.58	9.03	10.07	9.17	10.05	4.41	7.84	22.43	12.79
2005	—	11.91	15.20	15.28	15.38	15.28	6.91	12.21	23.14	16.33
2006	1.78	12.94	17.42	17.16	19.56	17.17	7.96	13.26	24.19	17.77
2007	—	12.74	19.52	19.26	22.18	19.27	8.79	13.40	24.01	17.54
2008	—	12.55	23.90	22.90	23.31	22.90	10.83	13.81	26.07	18.13
2009	—	10.89	16.16	19.10	23.54	19.10	8.13	11.82	27.94	17.44
2010	—	10.41	19.61	20.06	25.13	20.07	9.60	11.49	29.38	18.34
2011	—	9.73	27.44	21.85	28.57	21.89	11.54	11.08	31.20	18.93
2012	—	9.90	27.35	18.96	29.96	19.02	12.85	10.99	32.95	20.68
2013	—	10.01	28.35	18.68	30.61	18.71	12.58	10.92	34.13	19.53
2014	—	10.34	27.38	24.42	32.92	24.43	12.27	11.85	35.67	20.41
2015	—	9.83	17.93	15.76	17.00	15.77	8.45	10.50	36.18	20.59
2016	—	9.53	15.57	14.11	13.59	14.11	7.22	9.96	38.27	21.88
2017	—	10.59	17.73	17.80	17.00	17.80	8.08	11.25	39.02	22.69
2018	—	9.80	19.34	18.39	26.19	18.39	8.94	10.70	39.13	21.46
2019	—	8.86	18.62	16.22	22.93	16.22	8.60	9.70	37.26	19.69
2020	—	9.06	16.14	14.46	14.89	14.46	7.11	9.66	37.67	R 20.47
2021	—	10.73	20.47	21.08	23.52	21.08	R 8.53	11.84	38.05	R 22.29
2022	—	R 13.88	30.13	23.62	40.86	23.65	R 13.20	R 14.99	41.00	R 25.11
2023	—	14.04	27.58	20.91	36.49	20.96	12.07	14.77	39.22	24.65
	Expenditures in million dollars									
1970	0.1	66.7	0.4	29.2	0.9	30.5	0.2	97.4	130.8	228.2
1975	—	101.2	1.5	60.5	1.0	62.9	0.4	164.5	179.4	343.9
1980	(s)	201.9	6.0	57.2	0.2	63.4	4.5	269.7	386.2	656.0
1985	(s)	322.7	2.5	38.5	1.2	42.3	6.4	371.4	614.6	986.0
1990	(s)	319.6	1.0	37.4	0.5	38.9	7.2	365.7	745.0	1,110.7
1995	0.1	372.1	0.6	39.7	0.4	40.6	5.1	418.0	820.4	1,238.4
2000	(s)	539.4	0.9	105.2	1.0	107.2	6.2	652.8	958.8	1,611.5
2005	—	784.3	0.3	131.7	0.8	132.8	8.7	925.8	1,058.5	1,984.3
2006	(s)	752.9	0.3	107.4	0.5	108.2	8.8	869.9	1,114.3	1,984.2
2007	—	818.3	0.3	156.6	0.3	157.2	10.8	986.3	1,131.2	2,117.4
2008	—	914.4	0.5	241.4	0.2	242.0	14.9	1,171.3	1,200.9	2,372.2
2009	—	788.9	0.4	190.3	0.3	191.1	11.6	991.6	1,253.6	2,245.1
2010	—	712.1	0.3	179.3	0.3	180.0	14.7	906.8	1,437.1	2,343.9
2011	—	650.3	1.1	180.3	0.2	181.6	17.1	849.0	1,527.0	2,376.0
2012	—	510.9	1.2	126.7	0.1	128.0	15.9	654.9	1,551.1	2,206.0
2013	—	693.3	0.5	145.1	0.1	145.7	20.4	859.3	1,582.8	2,442.1
2014	—	753.1	0.2	211.5	0.2	211.8	20.1	985.0	1,665.6	2,650.6
2015	—	593.8	0.4	128.8	(s)	129.2	10.3	733.3	1,634.6	2,367.8
2016	—	532.5	0.1	90.4	0.7	91.3	7.6	631.3	1,764.2	2,395.5
2017	—	596.2	0.3	108.9	(s)	109.2	7.5	712.9	1,732.5	2,445.4
2018	—	683.4	0.2	154.8	0.1	155.1	11.8	R 850.4	1,894.1	2,744.5
2019	—	629.5	0.3	152.0	0.1	152.4	11.2	793.1	1,732.7	R 2,525.9
2020	—	583.9	0.3	123.7	(s)	124.0	R 5.3	R 713.1	1,747.1	R 2,460.2
2021	—	668.2	0.4	162.6	0.3	163.2	R 6.6	R 838.0	1,787.5	R 2,625.5
2022	—	R 938.3	0.6	207.3	0.4	208.3	12.8	R 1,159.5	2,020.8	R 3,180.2
2023	—	858.6	0.5	157.1	0.6	158.2	10.0	1,026.8	1,848.9	2,875.7

[a] Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2023, Kansas

Year	Primary energy										Electricity [j]	Total energy [g,h,i]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f,g]	Total [g,h,i]		
	Prices in dollars per million Btu											
1970	0.45	0.46	1.03	0.82	0.69	2.64	0.50	1.28	0.60	0.52	6.02	1.57
1975	—	0.68	2.45	1.85	2.27	4.50	1.56	2.70	1.20	0.87	8.26	2.75
1980	1.32	1.91	6.49	3.42	5.22	9.27	—	6.67	3.06	2.26	14.81	5.63
1985	1.69	3.15	5.97	4.00	7.77	9.28	—	6.27	3.46	3.45	19.87	8.51
1990	1.18	3.36	5.46	4.04	8.22	8.90	2.13	5.92	3.56	3.52	19.65	9.21
1995	1.34	3.92	4.30	7.70	4.97	8.55	2.51	5.19	2.90	3.98	19.85	10.04
2000	1.26	6.75	7.04	10.94	9.17	11.48	3.97	8.41	4.41	6.89	18.47	12.60
2005	—	11.29	13.76	16.21	15.38	17.62	—	15.21	6.91	11.62	19.35	16.23
2006	2.00	12.20	15.90	18.00	19.56	19.93	—	17.26	7.96	12.65	20.41	17.45
2007	—	11.83	17.46	19.44	22.18	22.34	—	18.80	8.79	12.42	20.01	17.02
2008	—	11.82	23.87	23.14	23.31	25.49	—	23.67	10.83	12.98	21.81	18.08
2009	—	9.82	14.05	18.51	23.54	18.43	7.93	16.37	8.13	10.47	23.08	17.78
2010	—	9.47	17.88	19.57	25.13	22.03	11.63	19.19	9.60	10.45	24.17	18.57
2011	—	8.71	24.40	23.00	28.57	28.02	15.67	24.18	11.54	10.06	25.73	19.40
2012	—	8.63	24.97	16.93	29.96	28.61	—	23.55	12.85	10.40	27.07	21.07
2013	—	8.91	24.58	18.02	30.61	27.91	—	22.47	12.58	R 10.10	28.37	20.75
2014	—	9.38	22.90	20.23	32.92	26.68	—	22.11	12.27	10.62	29.69	21.30
2015	—	8.57	13.54	11.32	17.00	19.15	—	15.63	8.45	9.67	29.59	20.33
2016	—	8.14	11.37	10.56	13.59	17.03	—	13.80	7.22	9.04	30.69	R 21.12
2017	—	8.99	13.82	14.48	17.00	19.12	—	16.16	8.08	R 10.19	31.05	R 21.76
2018	—	8.31	17.25	15.91	26.19	21.20	—	19.02	8.94	9.66	31.23	R 21.20
2019	—	7.36	15.77	12.13	22.93	20.20	—	17.15	8.60	8.60	30.16	19.88
2020	—	7.24	10.65	11.31	14.89	16.58	—	13.38	7.11	8.13	30.49	19.56
2021	—	8.77	16.97	18.50	23.52	23.42	—	20.34	R 8.53	10.32	30.82	20.89
2022	—	11.92	28.55	19.62	40.86	30.84	—	27.55	R 13.20	13.87	33.74	R 23.75
2023	—	11.88	21.73	15.23	36.49	27.35	—	23.25	12.07	13.30	31.81	22.82
	Expenditures in million dollars											
1970	(s)	23.9	0.7	2.0	0.1	3.0	0.1	5.9	(s)	29.8	81.4	111.3
1975	—	34.7	3.0	4.2	0.2	6.3	0.4	14.1	(s)	48.8	158.1	206.9
1980	0.1	111.7	13.6	3.5	0.3	13.6	—	31.0	0.1	143.0	343.9	486.8
1985	(s)	178.0	25.2	2.9	0.4	8.7	—	37.2	0.2	215.5	554.2	769.8
1990	(s)	188.4	10.4	2.4	0.3	7.6	0.4	21.0	0.8	210.3	640.0	850.3
1995	1.1	208.9	14.1	5.6	0.2	3.3	0.2	23.3	0.7	234.0	720.8	954.8
2000	0.3	274.0	23.4	14.1	0.3	5.1	0.1	42.9	1.0	318.3	830.0	1,148.3
2005	—	339.1	19.6	18.3	1.2	6.8	—	45.9	1.4	386.4	954.1	1,340.5
2006	(s)	342.2	26.8	9.5	1.0	13.5	—	50.8	1.5	394.4	1,029.6	1,424.0
2007	—	367.8	26.9	19.9	0.5	8.5	—	55.8	1.7	425.3	1,056.3	1,481.6
2008	—	410.4	41.5	41.0	0.3	8.0	—	90.8	2.3	503.5	1,153.3	1,656.8
2009	—	325.4	25.0	28.5	0.2	7.0	(s)	60.9	1.6	387.9	1,181.7	1,569.7
2010	—	306.9	25.3	36.4	0.2	8.5	(s)	70.4	1.9	379.2	1,272.7	1,651.9
2011	—	285.5	39.3	27.8	0.2	7.7	(s)	74.9	2.2	362.7	1,370.4	1,733.0
2012	—	224.5	53.8	14.1	0.1	13.8	—	81.8	2.2	308.5	1,427.4	1,735.9
2013	—	301.1	R 46.6	20.2	0.1	5.0	—	R 71.9	2.4	375.4	1,475.5	R 1,851.0
2014	—	347.4	R 43.7	34.5	0.2	9.5	—	R 87.9	R 2.4	437.7	1,558.2	1,995.9
2015	—	328.6	R 31.7	17.1	(s)	61.7	—	110.5	R 1.4	R 440.5	1,553.0	R 1,993.5
2016	—	292.3	R 29.4	12.5	(s)	53.1	—	95.0	R 1.2	R 388.5	1,663.7	R 2,052.2
2017	—	321.9	R 41.2	17.2	(s)	57.8	—	R 116.3	R 1.2	439.4	1,667.4	2,106.8
2018	—	347.3	37.6	13.8	0.1	63.6	—	R 115.1	R 1.5	R 464.0	1,723.1	R 2,187.1
2019	—	317.3	R 29.4	16.1	0.1	61.1	—	R 106.7	R 1.4	R 425.4	1,637.8	R 2,063.3
2020	—	298.5	24.5	18.9	(s)	50.5	—	R 94.0	R 1.1	R 393.6	1,544.3	R 1,937.9
2021	—	372.4	33.0	29.0	(s)	72.0	—	R 134.1	1.3	507.7	1,615.1	2,122.8
2022	—	566.8	R 58.4	30.8	0.1	97.3	—	186.5	R 2.0	R 755.3	1,816.7	R 2,572.0
2023	—	525.3	41.9	19.1	0.1	86.4	—	147.5	1.8	674.6	1,706.9	2,381.5

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[g] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[j] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: Expenditure totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2023, Kansas

Year	Primary energy												Electricity [i]	Total energy [f,g,h]
	Coal			Natural gas [a]	Petroleum						Biomass	Total [f,g,h]		
	Coking coal	Steam coal	Total		Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e,f]			
	Prices in dollars per million Btu													
1970	—	0.45	0.45	0.27	0.64	0.86	2.64	0.43	1.14	1.36	3.00	0.62	3.50	0.81
1975	—	0.92	0.92	0.55	2.13	2.01	4.50	1.84	2.53	2.65	3.00	1.45	5.62	1.87
1980	—	1.32	1.32	2.35	4.99	3.73	9.27	2.53	5.45	5.12	—	3.29	10.68	4.01
1985	—	1.69	1.69	3.54	6.22	4.49	9.28	3.86	7.84	5.55	—	4.50	14.74	5.41
1990	—	1.18	1.18	2.88	5.83	4.50	8.90	2.13	5.42	5.23	1.66	4.00	14.49	5.12
1995	—	1.34	1.34	2.22	4.87	7.83	8.55	2.51	5.21	5.69	2.34	3.49	14.12	4.94
2000	—	1.26	1.26	3.97	7.96	11.63	11.48	3.97	7.82	9.77	1.43	6.75	13.33	7.68
2005	—	1.68	1.68	7.60	14.43	17.56	17.62	4.56	9.80	12.88	1.49	9.32	14.23	10.27
2006	—	2.00	2.00	6.70	16.48	19.46	19.93	6.50	13.15	15.25	1.70	9.58	15.24	10.61
2007	—	2.12	2.12	7.04	18.56	21.90	22.34	8.53	15.28	19.60	1.70	12.59	15.03	12.92
2008	—	2.44	2.44	9.09	24.84	26.18	25.49	12.32	19.05	22.02	1.70	13.27	16.69	13.88
2009	—	2.53	2.53	4.50	14.80	20.29	18.43	7.93	18.05	15.77	1.70	8.04	17.89	9.83
2010	—	2.61	2.61	5.39	18.82	19.99	22.03	11.63	R 16.10	R 17.83	1.70	R 9.62	18.27	R 11.19
2011	—	2.44	2.44	5.18	25.57	23.18	28.02	15.67	R 20.67	R 24.04	1.69	R 10.51	19.67	R 12.22
2012	—	2.85	2.85	3.79	25.78	16.63	28.61	16.96	R 20.84	R 23.90	1.51	R 9.45	20.78	R 11.60
2013	—	2.49	2.49	4.77	25.15	17.81	27.91	16.72	21.27	23.68	1.36	10.32	21.67	12.46
2014	—	2.46	2.46	5.55	23.45	20.19	26.68	15.98	R 22.29	R 23.02	1.65	10.60	22.86	R 12.97
2015	—	2.26	2.26	4.10	15.06	10.58	19.15	10.29	R 18.05	R 15.92	1.48	7.51	22.30	10.18
2016	—	2.45	2.45	3.57	12.16	9.76	17.03	7.35	R 15.40	R 12.94	0.85	R 6.37	21.94	9.14
2017	—	2.18	2.18	4.02	14.69	13.69	19.12	9.84	19.68	15.50	0.65	7.28	22.11	9.94
2018	—	2.36	2.36	4.22	17.84	15.11	21.20	11.17	22.00	18.47	0.76	8.18	22.27	10.67
2019	—	2.30	2.30	3.77	16.81	11.31	20.20	11.38	R 22.20	17.50	1.20	7.51	21.53	10.01
2020	—	2.92	2.92	3.27	12.39	10.47	16.58	8.42	R 18.78	13.55	0.96	6.35	21.39	8.83
2021	—	2.91	2.91	5.04	17.50	17.60	23.42	12.59	R 20.59	R 18.43	0.77	8.84	21.63	11.06
2022	—	3.20	3.20	8.08	28.63	18.66	30.84	20.12	R 28.08	R 27.86	0.93	R 13.42	24.33	R 15.27
2023	—	3.60	3.60	5.37	23.58	14.25	27.35	18.07	26.33	23.90	1.21	10.41	22.38	12.53
	Expenditures in million dollars													
1970	—	1.0	1.0	35.5	9.4	5.4	38.5	0.2	24.0	77.5	3.3	117.3	46.8	164.2
1975	—	2.5	2.5	51.5	43.8	19.7	56.8	9.0	51.7	181.1	6.2	241.4	106.5	347.9
1980	—	9.4	9.4	322.0	101.0	72.5	58.3	6.1	162.0	399.9	—	731.4	256.6	988.0
1985	—	13.2	13.2	400.3	146.7	339.0	51.9	0.8	149.4	687.8	—	1,101.9	351.8	1,453.7
1990	—	4.5	4.5	316.4	154.1	207.2	35.7	1.7	177.1	575.9	1.6	898.5	389.7	1,288.2
1995	—	4.5	4.5	267.3	136.1	82.6	44.3	0.1	152.2	415.3	1.5	688.6	439.5	1,128.0
2000	—	4.1	4.1	406.1	207.2	560.4	42.7	5.8	160.2	976.3	0.2	1,386.7	453.2	1,839.9
2005	—	8.4	8.4	701.7	414.0	9.1	109.3	9.3	188.4	730.1	0.8	1,441.0	526.4	1,967.4
2006	—	11.4	11.4	700.1	525.5	4.4	131.7	24.4	242.0	927.9	0.2	1,639.6	577.7	2,217.3
2007	—	12.2	12.2	842.6	525.6	1,110.3	117.1	23.9	247.6	2,024.6	0.2	2,879.7	541.2	3,420.9
2008	—	9.8	9.8	980.6	786.2	32.2	104.2	91.7	232.0	1,246.2	0.2	2,236.8	604.9	2,841.7
2009	—	6.3	6.3	448.0	394.2	30.8	76.3	21.0	226.8	749.2	0.2	1,203.6	593.8	1,797.4
2010	—	6.9	6.9	545.6	552.4	29.6	69.9	25.2	R 298.7	R 975.8	0.3	R 1,528.6	641.7	R 2,170.4
2011	—	6.1	6.1	549.5	672.3	56.3	88.9	26.4	R 226.3	R 1,070.2	3.0	R 1,628.9	700.5	R 2,329.4
2012	—	5.7	5.7	406.4	663.4	33.7	80.5	26.3	R 245.1	R 1,049.0	2.4	R 1,463.5	754.6	R 2,218.1
2013	—	5.1	5.1	468.2	638.2	39.0	76.1	18.4	R 249.0	R 1,020.8	2.5	R 1,496.5	731.8	R 2,228.3
2014	—	7.3	7.3	549.4	655.2	24.2	55.0	17.9	R 249.8	R 1,002.1	2.9	R 1,561.7	808.8	R 2,370.4
2015	—	6.2	6.2	434.1	403.7	15.4	85.0	15.6	R 214.0	R 733.8	2.9	R 1,177.0	769.6	R 1,946.6
2016	—	5.6	5.6	384.1	344.6	12.3	86.0	26.4	R 159.9	R 629.2	1.5	R 1,020.3	760.7	R 1,781.0
2017	—	5.3	5.3	438.9	425.3	21.6	97.1	37.0	136.1	717.1	1.3	1,162.6	772.5	1,935.1
2018	—	6.0	6.0	482.6	553.2	20.6	107.8	25.0	166.5	873.1	1.8	1,363.5	795.1	2,158.6
2019	—	4.2	4.2	431.0	462.3	22.1	96.8	35.4	R 175.0	R 791.6	2.7	R 1,229.5	766.2	R 1,995.7
2020	—	3.6	3.6	379.4	412.4	15.6	79.9	29.9	R 167.5	R 705.2	2.1	R 1,090.3	724.6	R 1,814.9
2021	—	3.5	3.5	574.6	494.9	29.0	110.7	38.8	R 209.1	R 882.5	1.9	R 1,462.5	753.0	R 2,215.5
2022	—	5.8	5.8	996.9	818.6	30.5	154.9	63.4	R 291.3	R 1,358.7	2.1	R 2,363.5	876.8	R 3,240.3
2023	—	9.2	9.2	619.9	658.1	18.7	121.4	47.3	232.9	1,078.4	1.1	1,708.6	792.7	2,501.3

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[i] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET6. Transportation sector energy price and expenditure estimates, selected years, 1970-2023, Kansas

Year	Primary energy											Electricity [g]	Total energy [f]
			Petroleum										
	Coal	Natural gas[a]	Aviation gasoline	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Lubricants	Motor gasoline [e]	Residual fuel oil	Total	Total [f]		
	Prices in dollars per million Btu												
1970	0.45	—	2.17	1.18	0.82	0.75	5.08	2.64	0.49	2.34	2.34	—	2.34
1975	0.92	—	3.45	2.70	1.85	2.09	7.48	4.50	1.66	4.13	4.13	—	4.13
1980	—	—	9.02	7.05	3.42	6.47	14.36	9.27	3.82	8.58	8.58	—	8.58
1985	—	—	9.99	6.75	5.41	5.94	18.18	9.28	—	8.41	8.41	—	8.41
1990	—	—	9.32	8.28	5.98	5.57	20.61	8.90	—	8.61	8.61	—	8.61
1995	—	2.76	8.36	7.57	12.36	4.19	21.75	8.55	—	8.20	8.20	—	8.20
2000	—	5.47	10.87	10.36	15.80	6.85	23.20	11.48	—	11.05	11.05	—	11.05
2005	—	9.14	18.56	17.08	21.66	13.71	35.22	17.62	—	17.53	17.53	—	17.53
2006	—	10.43	22.31	19.15	23.30	14.70	43.88	19.93	—	19.79	19.79	—	19.79
2007	—	9.82	23.70	20.72	25.50	16.00	47.16	22.34	—	21.92	21.92	—	21.92
2008	—	10.70	27.23	27.08	29.45	22.77	55.12	25.49	—	26.27	26.27	—	26.27
2009	—	8.72	20.32	17.42	24.27	12.61	56.07	18.43	—	18.19	18.19	—	18.19
2010	—	8.28	25.19	21.20	26.60	16.27	58.80	22.03	—	21.78	21.78	—	21.78
2011	—	9.67	31.64	27.21	29.83	22.56	69.54	28.02	—	27.82	27.82	—	27.82
2012	—	8.80	33.04	27.92	22.65	22.97	72.11	28.61	—	28.41	28.41	—	28.41
2013	—	R 8.65	32.71	27.97	23.96	22.06	69.42	27.91	—	28.06	28.06	—	28.06
2014	—	R 9.64	33.16	27.27	26.59	20.59	69.44	26.68	—	26.99	26.98	—	26.98
2015	—	R 9.70	24.86	18.92	16.05	11.88	67.28	19.15	—	19.21	19.21	—	19.21
2016	—	R 9.64	21.62	16.20	15.11	9.72	65.78	17.03	—	16.82	16.82	—	16.82
2017	—	R 10.60	24.13	18.62	19.37	12.10	67.25	19.12	—	19.04	19.03	—	19.03
2018	—	R 10.41	27.04	22.30	19.99	15.64	72.37	21.20	—	21.74	R 21.71	—	R 21.71
2019	—	R 10.57	25.57	21.19	16.46	14.37	74.92	20.20	—	20.72	20.69	—	20.69
2020	—	R 10.18	22.34	17.40	15.41	9.10	75.34	16.58	—	17.02	R 17.00	—	R 17.00
2021	—	R 10.46	28.86	23.02	24.30	14.48	81.25	23.42	—	23.33	23.28	—	23.28
2022	—	R 12.56	36.02	35.08	24.19	25.89	97.37	30.84	—	32.84	R 32.74	—	R 32.74
2023	—	14.90	32.62	29.48	19.35	20.75	105.48	27.35	—	28.31	28.28	—	28.28
	Expenditures in million dollars												
1970	(s)	—	3.6	32.2	1.1	6.4	13.8	358.2	(s)	415.3	415.3	—	415.3
1975	(s)	—	3.1	92.9	2.6	15.0	23.6	693.1	0.2	830.4	830.4	—	830.4
1980	—	—	10.1	426.9	1.5	89.3	52.5	1,368.8	(s)	1,949.1	1,949.1	—	1,949.1
1985	—	—	6.9	387.3	2.0	147.6	60.5	1,315.0	—	1,919.4	1,935.7	—	1,935.7
1990	—	—	6.4	562.3	3.3	115.4	77.2	1,295.0	—	2,059.7	2,064.9	—	2,064.9
1995	—	(s)	6.2	558.5	2.7	57.2	77.7	1,261.4	—	1,963.7	1,963.7	—	1,963.7
2000	—	(s)	11.8	573.6	1.8	125.7	88.6	1,855.8	—	2,657.1	2,657.1	—	2,657.1
2005	—	0.1	20.1	1,274.4	6.4	136.6	113.4	2,460.1	—	4,011.0	4,011.1	—	4,011.1
2006	—	0.1	24.6	1,450.7	3.6	146.1	137.7	3,120.0	—	4,882.7	4,882.9	—	4,882.9
2007	—	0.1	19.7	1,693.1	4.0	140.0	152.8	3,547.8	—	5,557.4	5,557.5	—	5,557.5
2008	—	0.1	25.3	2,226.7	7.9	224.0	165.8	3,949.3	—	6,599.1	6,599.2	—	6,599.2
2009	—	0.1	13.7	R 1,454.8	6.4	175.0	151.7	2,896.0	—	R 4,697.6	4,697.7	—	4,697.7
2010	—	0.1	22.3	R 1,679.3	1.5	175.9	99.8	3,468.4	—	R 5,447.1	R 5,447.2	—	R 5,447.2
2011	—	0.1	24.4	R 2,148.7	1.1	221.4	110.7	4,256.0	—	R 6,762.3	R 6,762.4	—	R 6,762.4
2012	—	0.1	12.0	R 2,222.5	0.7	247.4	107.5	4,354.2	—	R 6,944.4	R 6,944.5	—	R 6,944.5
2013	—	0.1	10.4	R 2,716.0	1.1	140.5	116.1	4,278.3	—	R 7,262.4	R 7,262.5	—	R 7,262.5
2014	—	R 0.1	9.8	R 2,979.1	1.3	197.3	124.6	4,168.9	—	R 7,481.0	R 7,481.2	—	R 7,481.2
2015	—	R 1.0	8.0	R 1,885.9	1.0	83.9	124.4	2,829.4	—	R 4,932.5	R 4,933.5	—	R 4,933.5
2016	—	R 1.9	6.4	R 1,424.4	1.0	83.8	110.2	2,666.9	—	R 4,292.7	R 4,294.5	—	R 4,294.5
2017	—	R 5.3	6.9	R 1,647.1	0.8	82.1	100.0	2,855.8	—	R 4,692.7	R 4,698.0	—	R 4,698.0
2018	—	R 7.4	8.2	R 2,132.9	11.1	121.2	105.6	3,116.0	—	R 5,494.9	R 5,502.3	—	R 5,502.3
2019	—	R 8.0	7.9	2,065.4	2.4	R 105.9	R 109.5	3,129.7	—	R 5,420.8	R 5,428.9	—	R 5,428.9
2020	—	R 8.1	5.8	R 1,534.7	1.4	57.6	R 99.7	2,350.4	—	R 4,049.6	R 4,057.8	—	R 4,057.8
2021	—	R 10.0	8.5	R 2,094.0	5.4	106.4	110.2	3,372.0	—	R 5,696.4	R 5,706.4	—	R 5,706.4
2022	—	R 17.0	10.9	R 3,649.7	0.9	R 211.7	R 149.4	4,235.3	—	R 8,257.9	R 8,274.8	—	R 8,274.8
2023	—	10.5	9.4	3,005.5	0.5	181.5	120.0	4,003.1	—	7,320.0	7,330.5	—	7,330.5

[a] Transportation use of natural gas as vehicle fuel only.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET7. Electric power sector price and expenditure estimates, selected years, 1970-2023, Kansas

Year	Coal	Natural gas [a]	Petroleum: Distillate fuel oil	Petroleum: Petroleum coke	Petroleum: Residual fuel oil	Petroleum: Total	Nuclear fuel	Biomass: Wood and waste [b]	Electricity imports [c]	Total energy [d]
	Prices in dollars per million Btu									
1970	0.31	0.30	0.62	—	0.47	0.52	—	—	—	0.30
1975	0.67	0.48	2.08	0.65	1.55	1.69	—	—	—	0.72
1980	1.07	1.78	5.74	—	3.78	4.60	—	—	—	1.38
1985	1.40	2.88	5.55	—	3.99	5.39	0.84	—	—	1.44
1990	1.24	1.76	5.40	—	1.86	4.86	0.30	—	—	1.08
1995	1.02	1.61	3.69	—	1.64	3.68	0.39	—	—	0.91
2000	0.98	4.14	6.78	—	3.56	4.58	0.44	—	—	1.13
2005	1.12	7.71	12.97	—	5.37	5.89	0.42	—	—	1.29
2006	1.19	6.23	15.50	—	—	15.50	0.41	—	—	1.29
2007	1.23	6.19	16.61	1.41	—	4.48	0.43	—	18.25	1.33
2008	1.41	7.98	22.20	1.57	—	6.99	0.42	—	—	1.62
2009	1.43	4.07	12.83	1.56	—	4.32	0.46	—	—	1.44
2010	1.51	4.97	16.27	1.24	—	6.22	0.62	2.40	—	1.55
2011	1.75	4.71	22.21	1.76	—	13.39	0.69	2.44	—	1.80
2012	1.83	3.22	22.93	—	—	22.93	0.70	2.21	—	1.73
2013	1.77	4.48	22.41	—	—	22.41	0.75	2.26	—	1.78
2014	1.79	5.54	20.71	—	—	20.71	0.65	2.73	—	1.75
2015	1.70	3.79	12.07	—	—	12.07	0.64	2.62	—	1.55
2016	1.70	3.36	10.43	—	—	10.43	0.66	2.54	—	1.56
2017	1.72	3.73	13.19	—	—	13.19	0.64	2.40	9.18	1.52
2018	1.71	3.22	16.50	—	—	16.50	0.58	2.22	—	1.56
2019	1.62	2.78	14.92	—	—	14.92	0.57	2.33	—	1.45
2020	1.55	2.58	10.45	—	—	10.45	0.56	1.80	—	1.33
2021	1.43	9.67	14.84	—	—	14.84	0.62	2.39	—	1.87
2022	1.88	R 7.13	24.71	—	—	24.71	0.63	2.69	—	R 2.10
2023	1.70	3.08	20.56	—	—	20.56	0.62	2.93	—	1.57
	Expenditures in million dollars									
1970	2.6	49.5	0.6	—	1.1	1.8	—	—	—	53.9
1975	39.9	60.6	18.6	(s)	40.3	58.9	—	—	—	159.5
1980	197.4	172.4	12.8	—	11.7	24.5	—	—	—	394.3
1985	352.6	59.1	6.3	—	0.5	6.8	34.2	—	—	452.8
1990	332.8	47.7	4.1	—	0.3	4.3	25.0	—	—	409.8
1995	291.5	44.5	3.2	—	(s)	3.2	41.4	—	—	380.6
2000	353.8	140.4	10.6	—	11.9	22.5	41.9	—	—	558.6
2005	420.4	109.7	10.2	—	58.1	68.4	38.4	—	—	636.8
2006	427.9	142.1	11.0	—	—	11.0	40.1	—	—	621.1
2007	480.5	161.3	9.0	3.0	—	12.1	46.5	—	(s)	700.4
2008	519.8	216.0	11.7	2.3	—	14.0	37.1	—	—	786.9
2009	505.5	132.3	6.4	2.4	—	8.8	42.6	—	—	689.2
2010	539.5	140.9	9.2	1.4	—	10.6	62.1	1.4	—	754.5
2011	602.6	146.1	11.1	0.7	—	11.7	52.6	1.7	—	814.7
2012	560.3	106.7	10.4	—	—	10.4	60.7	1.4	—	739.4
2013	575.8	106.3	14.1	—	—	14.1	56.4	1.9	—	754.6
2014	561.3	104.2	13.9	—	—	13.9	58.2	2.1	—	739.6
2015	461.3	57.8	7.7	—	—	7.7	57.9	1.9	—	586.6
2016	425.9	71.0	4.0	—	—	4.0	56.8	1.7	—	559.4
2017	367.9	79.3	9.2	—	—	9.2	71.2	1.6	(s)	529.2
2018	384.0	94.2	11.2	—	—	11.2	56.0	1.7	—	547.1
2019	316.9	79.9	15.1	—	—	15.1	55.1	1.7	—	468.7
2020	299.0	63.7	10.6	—	—	10.6	62.4	1.4	—	437.1
2021	312.3	223.3	31.1	—	—	31.1	55.1	1.7	—	623.4
2022	422.9	R 222.5	32.2	—	—	32.2	59.3	1.9	—	R 738.9
2023	308.7	127.5	18.5	—	—	18.5	66.5	2.2	—	523.4

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[c] Electricity imported from Canada and Mexico.
[d] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET1. Primary energy, electricity, and total energy price and expenditure estimates, selected years, 1970-2023, Kentucky

	Primary energy														Electric power sector [i,k,l]	Electricity [m]	Total energy [h,i,j]
	Coal				Petroleum								Biomass				
	Coking coal	Steam coal	Total	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Nuclear fuel	Wood and waste [g,h]	Total [h,i,j,k]			
Year	Prices in dollars per million Btu																
1970	0.38	0.26	0.27	0.65	1.21	1.93	0.73	2.93	0.56	1.48	2.18	—	1.23	0.95	0.22	3.37	1.68
1975	1.60	0.70	0.75	1.02	2.58	3.70	2.03	4.69	2.06	2.98	3.89	—	1.54	1.87	0.64	5.32	3.28
1980	1.81	1.35	1.37	2.85	6.41	6.06	6.39	9.65	3.64	7.22	7.93	—	3.04	3.93	1.32	10.07	6.73
1985	1.93	1.46	1.48	4.77	6.64	7.06	6.17	8.80	4.89	7.37	7.78	—	3.68	3.95	1.43	14.84	7.94
1990	1.80	1.24	1.27	4.11	7.49	7.44	5.82	9.25	3.61	6.06	8.04	—	3.35	3.83	1.20	13.16	7.87
1995	1.57	1.15	1.17	3.78	6.83	9.23	4.15	9.18	2.92	5.93	7.79	—	2.64	3.56	1.11	11.97	7.41
2000	1.62	1.04	1.06	5.77	9.65	12.38	6.48	11.64	3.97	6.34	10.08	—	3.48	4.51	1.05	12.31	9.30
2005	3.00	1.58	1.62	10.78	16.34	18.07	12.90	17.68	6.67	4.47	14.42	—	3.54	7.25	1.66	14.74	13.57
2006	3.33	1.77	1.81	10.92	18.45	20.03	14.70	20.04	7.79	5.25	16.33	—	3.60	7.91	1.80	15.97	15.00
2007	3.48	1.81	1.86	9.46	19.98	22.27	16.00	22.26	8.59	6.16	18.28	—	3.71	8.45	1.89	17.17	16.00
2008	4.37	2.21	2.26	11.54	26.72	26.50	22.77	26.02	12.40	7.63	22.74	—	4.58	10.19	2.27	18.41	19.07
2009	5.11	2.21	2.27	8.43	16.89	21.21	12.73	18.95	7.98	6.89	15.90	—	4.69	7.80	2.21	19.19	15.28
2010	5.41	2.30	2.36	7.13	20.76	21.90	16.34	22.55	11.27	R 9.67	R 19.76	—	4.77	R 8.80	2.32	19.81	17.22
2011	6.63	2.39	2.44	7.05	26.90	25.36	22.55	28.69	—	R 13.17	R 25.64	—	5.39	10.74	2.39	21.10	20.62
2012	—	2.47	2.47	5.71	27.53	19.09	23.07	29.29	16.91	R 12.84	R 25.31	—	5.46	10.84	2.48	21.37	20.65
2013	—	2.40	2.40	6.67	27.45	21.12	22.03	28.57	16.68	R 14.30	25.63	—	5.73	10.72	2.43	22.58	20.80
2014	—	2.38	2.38	7.40	26.71	18.00	20.59	27.31	15.95	R 14.71	24.48	—	R 5.78	10.37	2.47	23.96	20.43
2015	—	2.27	2.27	6.03	18.34	11.34	11.88	19.61	10.27	R 11.42	R 17.01	—	R 4.01	8.06	2.31	23.95	16.37
2016	—	2.15	2.15	5.22	15.51	10.67	9.72	17.43	7.32	R 9.22	R 14.73	—	R 3.61	7.29	2.21	24.77	R 15.27
2017	—	2.04	2.04	5.76	18.09	12.15	12.10	19.57	9.80	12.20	17.21	—	R 3.68	8.48	2.20	25.24	16.72
2018	—	2.00	2.00	5.42	21.68	14.04	15.44	21.70	11.12	14.61	19.83	—	R 3.67	R 9.33	2.23	25.06	17.92
2019	—	1.98	1.98	5.18	20.47	11.77	14.31	20.68	—	R 14.56	18.71	—	R 3.67	9.19	2.16	25.33	17.36
2020	—	1.93	1.93	4.90	16.56	9.99	9.10	16.97	—	R 15.65	15.18	—	R 2.57	7.88	2.05	25.27	R 15.50
2021	—	1.96	1.96	6.15	22.23	16.43	14.48	23.97	12.53	R 16.76	21.11	—	R 3.10	10.40	2.30	26.85	R 19.23
2022	—	2.49	2.49	8.53	34.20	17.09	25.52	31.57	20.03	R 31.05	30.30	—	R 3.79	R 14.70	3.34	30.92	R 25.30
2023	—	2.63	2.63	6.15	28.68	12.89	20.51	27.99	17.98	20.65	25.58	—	3.84	12.88	2.70	29.33	22.24
	Expenditures in million dollars																
1970	16.4	123.5	139.9	136.7	58.0	67.7	12.6	517.3	3.2	90.3	749.1	—	5.9	1,031.6	-90.6	354.9	1,295.9
1975	52.1	368.6	420.7	185.7	164.1	145.9	24.6	1,005.6	11.1	164.8	1,516.0	—	9.8	2,132.2	-309.8	852.2	2,674.6
1980	44.0	834.3	878.3	511.8	855.7	219.6	104.4	2,019.1	20.9	426.7	3,646.4	—	15.3	5,051.7	-743.7	1,698.6	6,006.6
1985	60.5	999.7	1,060.1	722.4	853.8	137.2	119.3	1,846.2	9.5	339.4	3,305.5	—	27.7	5,147.6	-883.4	2,528.3	6,792.5
1990	56.9	960.7	1,017.5	656.2	1,057.1	159.5	188.2	2,091.8	8.7	313.1	3,818.4	—	22.0	5,541.0	-858.3	2,707.2	7,389.9
1995	60.3	1,025.2	1,085.5	795.6	1,086.2	186.0	148.2	2,299.2	1.9	298.2	4,019.6	—	15.8	5,916.5	-929.7	3,004.2	7,990.9
2000	49.7	1,008.5	1,058.2	1,221.5	1,664.5	434.5	244.4	2,962.3	1.4	449.7	5,756.8	—	12.9	8,049.4	-987.8	3,248.1	10,309.7
2005	80.5	1,515.6	1,596.0	2,391.3	2,987.8	631.3	606.1	4,946.3	5.7	590.6	9,767.8	—	74.8	13,829.9	-1,628.3	4,431.9	16,633.5
2006	90.6	1,759.9	1,850.5	2,171.8	3,509.6	683.3	592.3	5,600.4	5.6	708.6	11,099.7	—	73.5	15,195.5	-1,821.0	4,761.9	18,136.5
2007	102.7	1,795.0	1,897.7	2,012.1	3,868.1	759.9	723.8	6,196.4	5.4	744.5	12,298.1	—	80.4	16,288.3	-1,906.4	5,332.6	19,714.5
2008	110.2	2,208.9	2,319.2	2,383.3	4,796.7	905.4	958.6	6,900.3	(s)	865.4	14,426.5	—	95.8	19,224.8	-2,289.8	5,777.4	22,712.4
2009	87.2	2,037.5	2,124.7	1,582.5	R 2,832.6	623.1	710.7	5,138.8	3.3	741.1	R 10,049.6	—	72.8	R 13,829.7	-2,044.3	5,720.0	R 17,505.4
2010	107.2	2,275.8	2,382.9	1,497.9	R 3,531.6	1,209.8	915.4	6,057.2	3.8	R 805.4	R 12,523.1	—	101.0	R 16,505.0	-2,324.9	6,223.8	R 20,403.9
2011	85.3	2,381.1	2,466.4	1,421.7	R 4,846.3	1,425.9	1,323.4	7,445.7	—	R 864.5	R 15,906.0	—	113.5	R 19,907.6	-2,386.3	6,339.0	R 23,860.3
2012	—	2,249.3	2,249.3	1,191.5	R 4,548.4	1,021.4	1,343.7	7,502.1	4.1	R 949.6	R 15,369.3	—	102.4	R 18,912.5	-2,303.1	6,377.6	R 22,987.0
2013	—	2,199.9	2,199.9	1,418.0	R 4,473.3	795.3	1,331.5	7,310.6	3.2	R 833.5	R 14,747.4	—	123.8	R 18,489.1	-2,232.3	6,471.4	R 22,728.2
2014	—	2,177.9	2,177.9	1,760.3	R 4,345.3	618.5	1,243.7	6,925.2	2.3	R 934.4	R 14,069.3	—	R 136.6	R 18,144.2	-2,295.2	6,377.9	R 22,226.8
2015	—	1,804.8	1,804.8	R 1,502.3	R 2,860.9	399.3	748.8	5,138.2	0.9	R 742.9	R 9,891.0	—	R 82.3	R 13,280.4	-1,931.7	6,138.4	R 17,487.2
2016	—	1,584.9	1,584.9	1,351.9	R 2,418.1	324.6	645.2	4,679.2	0.3	R 653.1	R 8,720.5	—	R 75.7	R 11,733.0	-1,763.9	6,222.9	R 16,191.9
2017	—	1,303.3	1,303.3	R 1,569.9	R 2,721.3	383.8	892.1	5,232.8	1.5	548.4	R 9,779.9	—	R 80.0	R 12,733.2	-1,558.3	6,171.7	R 17,346.5
2018	—	1,313.6	1,313.6	R 1,766.5	R 3,506.4	502.9	R 1,239.7	5,816.9	0.9	669.5	R 11,736.3	—	R 83.7	R 14,900.3	-1,685.4	6,473.2	R 19,688.1
2019	—	1,136.0	1,136.0	R 1,681.2	R 3,188.8	459.9	R 1,105.6	5,530.7	—	R 660.5	R 10,945.5	—	R 83.8	R 13,846.5	-1,459.0	6,434.0	R 18,821.5
2020	—	928.5	928.5	R 1,481.7	R 2,422.2	361.4	R 683.3	4,070.8	—	R 485.0	R 8,022.6	—	R 41.5	R 10,474.3	-1,185.0	6,116.6	R 15,405.9
2021	—	1,072.6	1,072.6	R 1,951.3	R 3,365.1	607.0	R 1,205.1	6,172.7	0.9	R 700.9	R 12,051.6	—	R 56.4	R 15,131.9	-1,484.1	6,743.6	R 20,391.5
2022	—	1,301.2	1,301.2	R 3,044.8	R 5,327.1	697.9	R 2,229.3	8,111.7	1.3	R 855.5	R 17,222.9	—	R 95.1	R 21,663.9	-2,161.3	7,852.3	R 27,354.9
2023	—	1,265.3	1,265.3	1,971.6	4,356.7	484.1	1,767.0	7,305.1	1.0	776.9	14,690.9	—	79.7	18,007.5	-1,571.9	7,035.6	23,471.2

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[l] Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
[m] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET2. Total end-use energy price and expenditure estimates, selected years, 1970-2023, Kentucky

Year	Primary energy											Electricity [k]	Total energy [h,i,j]
			Petroleum							Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g,h]	Total [h,i,j]		
	Prices in dollars per million Btu												
1970	0.45	0.66	1.21	1.93	0.73	2.93	0.51	1.48	2.18	1.23	1.41	3.37	1.68
1975	1.44	1.02	2.58	3.70	2.03	4.69	2.11	2.98	3.89	1.54	2.78	5.32	3.28
1980	1.78	2.86	6.41	6.06	6.39	9.65	3.64	7.22	7.93	3.04	5.95	10.07	6.73
1985	1.90	4.78	6.65	7.06	6.17	8.80	4.89	7.37	7.78	3.68	6.23	14.84	7.94
1990	1.84	4.12	7.51	7.44	5.82	9.25	3.61	6.06	8.04	3.35	6.39	13.16	7.87
1995	1.70	3.79	6.86	9.23	4.15	9.18	2.92	5.93	7.80	2.64	6.03	11.97	7.41
2000	1.61	5.79	9.68	12.38	6.48	11.64	3.97	6.34	10.09	3.48	8.36	12.31	9.30
2005	2.72	10.93	16.37	18.07	12.90	17.68	6.67	6.12	15.30	3.67	13.19	14.74	13.57
2006	2.98	11.14	18.48	20.03	14.70	20.04	7.79	6.77	17.21	3.77	14.68	15.97	15.00
2007	3.08	9.65	20.00	22.27	16.00	22.26	8.59	7.78	19.09	3.89	15.61	17.17	16.00
2008	3.68	11.55	26.77	26.50	22.77	26.02	12.40	9.98	23.85	4.87	19.31	18.41	19.07
2009	4.13	8.50	16.92	21.21	12.73	18.95	7.98	8.37	16.43	4.95	13.91	19.19	15.28
2010	4.16	7.26	20.79	21.90	16.34	22.55	11.27	R 13.20	R 20.51	4.90	16.28	19.81	17.22
2011	4.45	7.14	26.93	25.36	22.55	28.69	—	R 17.73	26.38	5.55	R 20.45	21.10	20.62
2012	3.93	6.11	27.57	19.09	23.07	29.29	16.91	R 15.76	25.93	5.78	20.39	21.37	20.65
2013	3.86	6.74	27.49	21.12	22.03	28.57	16.68	R 18.35	26.24	6.04	20.17	22.58	20.80
2014	3.70	7.58	26.76	18.00	20.59	27.31	15.95	R 17.56	24.95	6.06	19.29	23.96	20.43
2015	3.60	6.71	18.38	11.34	11.88	19.61	10.27	R 13.30	R 17.30	R 4.21	R 13.98	23.95	16.37
2016	3.49	R 5.95	15.55	10.67	9.72	17.43	7.32	R 10.87	R 15.03	R 3.80	R 12.32	24.77	R 15.27
2017	3.39	6.72	18.13	12.15	12.10	19.57	9.80	13.46	17.35	R 3.88	14.09	25.24	16.72
2018	3.43	6.46	21.72	14.04	15.44	21.70	11.12	14.61	R 19.84	R 3.84	R 15.73	25.06	17.92
2019	3.96	6.30	20.50	11.77	14.31	20.68	—	R 14.56	18.72	R 3.84	14.92	25.33	17.36
2020	4.05	6.04	16.59	9.99	9.10	16.97	—	R 15.65	15.19	R 2.75	R 12.35	25.27	R 15.50
2021	4.11	7.24	22.27	16.43	14.48	23.97	12.53	R 16.76	21.12	R 3.29	R 16.87	26.85	R 19.23
2022	5.16	9.79	R 34.27	17.09	25.52	31.57	20.03	R 31.26	30.32	R 3.95	R 23.57	30.92	R 25.30
2023	6.06	7.70	28.71	12.89	20.51	27.99	17.98	20.65	25.59	4.01	20.16	29.33	22.24
	Expenditures in million dollars												
1970	52.5	134.2	58.0	67.7	12.6	517.3	2.5	90.3	748.4	5.9	941.0	354.9	1,295.9
1975	112.3	185.5	164.0	145.9	24.6	1,005.6	10.0	164.8	1,514.9	9.8	1,822.4	852.2	2,674.6
1980	147.4	507.6	847.0	219.6	104.4	2,019.1	20.9	426.7	3,637.7	15.3	4,307.9	1,698.6	6,006.6
1985	189.9	718.3	844.7	137.2	119.3	1,846.2	9.5	339.4	3,296.3	27.7	4,264.2	2,528.3	6,792.5
1990	167.2	655.3	1,050.0	159.5	188.2	2,091.8	8.7	313.1	3,811.3	22.0	4,682.7	2,707.2	7,389.9
1995	165.3	793.0	1,079.1	186.0	148.2	2,299.2	1.9	298.2	4,012.6	15.8	4,986.7	3,004.2	7,990.9
2000	103.9	1,200.3	1,652.2	434.5	244.4	2,962.3	1.4	449.7	5,744.5	12.9	7,061.5	3,248.1	10,309.7
2005	177.7	2,230.0	2,971.1	631.3	606.1	4,946.3	5.7	558.7	9,719.3	74.6	12,201.6	4,431.9	16,633.5
2006	192.7	2,074.0	3,493.5	683.3	592.3	5,600.4	5.6	659.6	11,034.6	73.1	13,374.5	4,761.9	18,136.5
2007	206.1	1,861.7	3,845.3	759.9	723.8	6,196.4	5.4	703.3	12,234.1	80.0	14,381.9	5,332.6	19,714.5
2008	217.7	2,272.7	4,765.0	905.4	958.6	6,900.3	(s)	819.7	14,349.1	95.5	16,934.9	5,777.4	22,712.4
2009	184.5	1,522.6	R 2,809.6	623.1	710.7	5,138.8	3.3	720.1	R 10,005.7	72.6	R 11,785.4	5,720.0	R 17,505.4
2010	213.7	1,383.3	R 3,509.7	1,209.8	915.4	6,057.2	3.8	R 786.6	R 12,482.4	100.8	R 14,180.1	6,223.8	R 20,403.9
2011	217.9	1,326.6	R 4,813.2	1,425.9	1,323.4	7,445.7	—	R 855.3	R 15,863.6	113.2	R 17,521.3	6,339.0	R 23,860.3
2012	117.6	1,079.4	R 4,518.2	1,021.4	1,343.7	7,502.1	4.1	R 921.3	R 15,310.8	101.6	R 16,609.5	6,377.6	R 22,987.0
2013	108.9	1,332.1	R 4,444.4	795.3	1,331.5	7,310.6	3.2	R 807.7	R 14,692.8	123.0	R 16,256.8	6,471.4	R 22,728.2
2014	100.2	1,593.8	R 4,315.1	618.5	1,243.7	6,925.2	2.3	R 914.1	R 14,018.8	R 136.1	R 15,848.9	6,377.9	R 22,226.8
2015	96.3	1,315.9	R 2,842.4	399.3	748.8	5,138.2	0.9	R 725.2	R 9,854.7	R 81.8	R 11,348.7	6,138.4	R 17,487.2
2016	72.7	R 1,133.4	R 2,405.1	324.6	645.2	4,679.2	0.3	R 633.6	R 8,688.1	R 74.9	R 9,969.1	6,222.9	R 16,191.9
2017	76.2	R 1,260.8	R 2,707.2	383.8	892.1	5,232.8	1.5	541.2	R 9,758.7	R 79.2	R 11,174.8	6,171.7	R 17,346.5
2018	68.6	R 1,343.6	R 3,490.1	502.9	R 1,239.7	5,816.9	0.9	669.5	R 11,720.0	R 82.8	R 13,214.9	6,473.2	R 19,688.1
2019	71.9	R 1,301.5	R 3,174.5	459.9	R 1,105.6	5,530.7	—	R 660.5	R 10,931.2	R 82.9	R 12,387.5	6,434.0	R 18,821.5
2020	62.7	R 1,174.3	R 2,411.3	361.4	R 683.3	4,070.8	—	R 485.0	R 8,011.8	R 40.5	R 9,289.4	6,116.6	R 15,405.9
2021	71.8	1,483.3	R 3,350.8	607.0	R 1,205.1	6,172.7	0.9	R 700.9	R 12,037.3	R 55.5	R 13,647.8	6,743.6	R 20,391.5
2022	107.1	2,111.0	R 5,295.5	697.9	R 2,229.3	8,111.7	1.3	R 854.7	R 17,190.4	R 94.1	R 19,502.6	7,852.3	R 27,354.9
2023	106.1	1,575.6	4,341.0	484.1	1,767.0	7,305.1	1.0	776.9	14,675.1	78.7	16,435.6	7,035.6	23,471.2

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. · Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2023, Kentucky

Year	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
	Prices in dollars per million Btu									
1970	0.86	0.81	1.19	2.32	1.73	1.97	0.85	1.07	5.85	1.84
1975	1.91	1.22	2.49	4.16	3.13	3.71	1.69	1.78	7.83	3.20
1980	2.30	3.00	6.89	8.31	8.52	8.10	4.31	4.17	12.91	6.83
1985	2.45	5.15	7.67	9.78	7.18	8.34	4.88	5.70	17.06	9.92
1990	2.25	4.74	6.76	11.86	7.94	9.65	3.53	5.47	16.69	10.24
1995	2.05	4.61	5.46	10.87	6.32	8.69	2.87	5.19	16.48	10.06
2000	2.03	7.12	9.12	13.83	9.27	12.38	4.37	7.98	16.03	11.86
2005	3.53	12.72	15.30	19.38	15.49	18.17	6.83	13.21	19.24	16.55
2006	4.06	13.74	17.54	21.62	19.69	20.83	7.87	14.49	20.58	18.06
2007	3.55	11.73	19.65	23.16	22.33	22.62	8.70	13.15	21.51	18.06
2008	—	13.37	24.06	27.34	23.47	26.83	10.72	15.25	23.28	19.79
2009	—	11.55	16.27	22.94	23.70	21.97	8.05	13.07	24.53	19.48
2010	—	9.72	19.64	24.40	25.17	24.17	9.50	11.96	25.11	19.53
2011	—	10.16	27.36	26.77	28.49	26.94	11.42	12.98	26.97	21.01
2012	—	9.88	27.27	24.18	29.88	24.49	12.71	11.90	27.63	21.56
2013	—	9.56	28.29	23.26	30.54	23.77	12.45	11.39	28.70	21.23
2014	—	10.35	27.34	27.68	32.87	27.80	12.14	12.65	29.79	22.18
2015	—	10.64	17.90	20.16	16.97	19.94	8.37	11.82	30.02	22.52
2016	—	9.85	15.49	19.34	13.53	18.87	7.15	10.76	30.75	23.05
2017	—	11.11	17.64	22.29	16.92	21.72	8.00	11.95	31.80	R 24.14
2018	—	10.05	19.24	24.03	26.07	23.75	8.85	11.36	31.05	23.09
2019	—	10.35	18.92	23.20	22.82	22.95	8.51	11.97	31.64	23.50
2020	—	10.61	15.98	20.52	14.82	20.13	7.04	R 11.60	31.85	R 23.97
2021	—	11.62	20.24	26.70	23.41	R 26.11	8.45	R 13.42	33.71	R 25.72
2022	—	13.86	30.71	28.15	40.66	28.49	13.07	R 15.96	37.85	R 28.86
2023	—	14.64	28.16	26.51	36.32	26.92	11.95	16.17	37.08	29.08
	Expenditures in million dollars									
1970	6.0	71.6	2.8	30.4	20.4	53.6	1.5	132.7	139.6	272.2
1975	3.9	97.1	6.4	60.6	19.0	86.1	3.3	190.3	256.0	446.3
1980	3.3	224.9	32.9	66.8	84.6	184.2	11.7	424.1	575.9	1,000.0
1985	3.3	318.9	38.2	60.5	33.9	132.6	23.3	478.0	846.2	1,324.2
1990	1.7	276.1	29.5	84.3	14.5	128.2	18.8	424.8	957.5	1,382.3
1995	0.9	334.1	22.9	95.7	14.9	133.5	12.2	480.6	1,155.1	1,635.7
2000	1.1	479.1	28.0	149.4	16.6	194.0	9.9	684.2	1,278.7	1,962.8
2005	2.0	734.9	32.9	159.9	22.0	214.8	27.2	978.9	1,769.4	2,748.2
2006	1.1	669.9	25.9	162.3	17.8	206.1	27.8	904.9	1,821.8	2,726.7
2007	1.1	621.0	27.9	187.9	12.6	228.4	33.9	884.5	2,055.7	2,940.1
2008	—	761.5	32.1	255.1	8.0	295.2	46.7	1,103.5	2,189.7	3,293.1
2009	—	620.3	30.2	223.4	15.3	268.9	44.1	933.3	2,223.4	3,156.7
2010	—	545.0	12.8	248.3	15.9	276.9	55.8	877.7	2,496.8	3,374.5
2011	—	529.3	42.7	242.8	15.1	300.6	65.1	895.0	2,503.0	3,397.9
2012	—	438.8	12.6	150.9	3.4	166.9	60.6	666.4	2,460.7	3,127.0
2013	—	531.2	17.3	161.8	3.6	182.6	77.4	791.3	2,623.0	3,414.3
2014	—	611.6	15.9	231.9	8.3	R 256.1	76.4	944.0	2,785.0	R 3,729.1
2015	—	537.3	R 11.5	160.9	2.5	174.9	28.2	740.4	2,680.3	3,420.7
2016	—	461.4	8.3	112.5	2.3	123.1	21.0	605.5	2,763.1	R 3,368.6
2017	—	502.6	9.3	99.7	1.5	R 110.5	23.7	R 636.8	2,699.9	R 3,336.7
2018	—	543.6	8.1	142.4	2.6	153.1	R 32.3	R 729.0	2,936.4	R 3,665.3
2019	—	529.2	9.5	190.1	3.4	R 203.0	R 34.4	R 766.6	2,869.1	R 3,635.8
2020	—	512.0	R 6.2	122.7	2.0	130.8	R 11.4	R 654.2	2,818.4	R 3,472.7
2021	—	572.9	12.6	183.8	3.0	199.4	R 14.2	R 786.5	3,040.8	R 3,827.3
2022	—	726.4	19.6	239.9	4.7	264.3	R 27.7	R 1,018.3	3,466.1	R 4,484.4
2023	—	633.5	16.0	161.4	6.9	184.3	21.5	839.3	3,106.3	3,945.6

[a] Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2023, Kentucky

Year	Primary energy										Electricity [j]	Total energy [g,h,i]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f,g]	Total [g,h,i]		
	Prices in dollars per million Btu											
1970	0.44	0.66	1.02	1.62	0.79	2.93	0.78	1.33	0.85	0.76	5.48	1.54
1975	1.30	1.05	2.29	3.19	2.53	4.69	1.69	2.85	1.69	1.42	5.26	2.54
1980	1.75	2.89	6.49	4.99	6.08	9.65	4.12	6.52	4.31	3.97	10.42	5.92
1985	1.87	4.95	6.09	5.18	7.18	8.80	4.89	6.48	4.88	5.05	12.34	7.83
1990	1.86	4.35	5.55	4.73	7.94	9.25	3.61	6.61	3.53	4.60	15.33	9.65
1995	1.77	4.19	4.34	7.78	6.32	9.18	—	5.17	2.87	4.21	15.01	9.16
2000	1.59	6.42	7.12	11.06	9.27	11.64	3.97	8.09	4.37	6.27	14.65	10.65
2005	2.51	11.93	13.85	16.32	15.49	17.68	6.66	14.51	6.83	10.99	17.60	14.70
2006	2.71	12.85	16.00	18.12	19.69	20.04	—	16.65	7.87	12.63	18.86	16.38
2007	2.75	10.99	17.58	19.57	22.33	22.26	—	18.21	8.70	11.24	19.80	16.46
2008	3.90	12.80	24.03	23.30	23.47	26.02	—	23.85	10.72	13.77	21.36	18.27
2009	4.66	10.51	14.14	18.64	23.70	18.95	—	16.06	8.05	10.80	22.36	17.73
2010	3.61	8.35	17.92	19.61	25.17	22.55	—	18.91	9.50	9.07	23.10	17.55
2011	3.98	8.55	24.33	22.93	28.49	28.69	—	23.96	11.42	10.10	24.88	19.02
2012	4.19	8.03	24.89	16.88	29.88	29.29	—	22.03	12.71	9.57	25.58	19.68
2013	4.82	8.12	24.53	17.98	30.54	28.57	—	R 22.18	12.45	R 9.65	25.09	19.20
2014	4.72	8.83	22.87	20.20	32.87	27.31	—	22.32	12.14	10.19	27.66	R 20.36
2015	4.70	8.57	13.52	11.30	16.97	19.61	—	15.72	8.37	9.93	27.65	R 20.43
2016	4.62	7.67	11.32	10.51	13.53	17.43	—	R 13.21	7.15	R 9.06	28.05	R 20.26
2017	4.81	8.66	13.75	14.41	16.92	19.57	—	16.41	8.00	R 10.22	28.87	21.37
2018	4.64	8.02	17.17	15.84	26.07	21.70	—	R 18.73	8.85	10.16	28.54	R 20.65
2019	5.59	8.20	15.69	12.08	22.82	20.68	—	16.60	8.51	10.10	29.75	R 21.20
2020	5.96	8.23	10.60	11.25	14.82	16.97	—	13.29	7.04	R 9.33	30.30	R 21.31
2021	5.76	9.13	16.89	18.41	23.41	23.97	—	20.26	8.45	R 11.36	31.50	R 22.87
2022	6.50	11.57	28.42	19.53	40.66	31.57	—	27.24	13.07	R 14.82	34.53	R 25.98
2023	—	11.29	21.63	15.16	36.32	27.99	—	22.80	11.95	13.72	33.34	25.21
	Expenditures in million dollars											
1970	2.4	28.3	5.0	3.4	1.8	4.1	0.1	14.3	(s)	45.1	64.8	109.9
1975	6.2	40.8	12.2	7.4	3.0	6.8	0.1	29.5	0.1	76.6	116.4	192.9
1980	9.5	114.9	99.6	6.4	21.4	12.7	0.5	140.6	0.3	265.3	299.9	565.2
1985	8.9	172.1	56.0	5.1	3.7	17.5	(s)	82.3	0.6	264.1	398.7	662.8
1990	5.5	143.8	24.6	5.4	4.2	21.6	(s)	55.9	2.1	207.5	613.9	821.4
1995	5.0	177.5	28.2	11.0	4.2	2.0	—	45.4	1.7	229.5	692.6	922.0
2000	7.1	258.3	44.8	19.1	3.7	2.4	0.2	70.2	1.6	337.3	862.5	1,199.8
2005	16.1	452.7	62.3	19.4	2.4	3.9	(s)	88.0	4.4	561.1	1,146.6	1,707.7
2006	7.6	430.8	69.6	21.4	2.2	4.5	—	97.7	4.7	540.8	1,218.9	1,759.7
2007	8.0	388.2	67.2	18.2	1.3	5.0	—	91.7	5.5	493.3	1,353.5	1,846.9
2008	5.8	492.5	76.6	44.5	1.0	5.8	—	127.9	7.1	633.3	1,433.5	2,066.7
2009	6.1	385.9	33.4	26.2	0.8	4.2	—	64.6	6.2	462.9	1,429.5	1,892.4
2010	4.3	317.0	34.2	24.4	1.0	4.9	—	64.6	7.3	393.1	1,529.6	1,922.8
2011	4.9	304.1	54.9	44.6	0.9	6.2	—	106.7	8.4	424.1	1,589.3	2,013.4
2012	3.6	254.8	57.6	27.0	0.3	6.3	—	91.2	8.2	357.8	1,637.2	1,995.0
2013	2.0	311.4	R 63.9	32.8	0.3	6.3	—	R 103.4	9.3	R 426.1	1,798.0	R 2,224.1
2014	2.3	362.1	R 68.8	29.4	1.1	5.8	—	R 105.1	R 9.1	R 478.6	1,808.0	R 2,286.6
2015	1.8	310.1	R 52.7	15.1	0.5	72.8	—	R 141.2	R 3.8	R 456.8	1,848.3	R 2,305.1
2016	1.7	264.5	R 77.0	14.2	0.7	68.3	—	R 160.1	R 3.2	R 429.5	1,912.4	R 2,341.9
2017	1.7	297.1	R 49.6	21.6	0.5	77.7	—	R 149.3	R 3.8	R 452.0	1,900.4	R 2,352.4
2018	0.7	324.3	R 73.2	30.5	1.0	87.3	—	R 192.0	R 4.2	R 521.2	1,945.9	R 2,467.1
2019	0.9	321.6	R 75.9	33.2	1.0	84.0	—	R 194.1	R 4.3	R 520.9	1,990.8	R 2,511.7
2020	0.4	293.3	R 44.0	21.6	0.8	69.0	—	R 135.4	R 2.3	R 431.4	1,867.4	R 2,298.8
2021	0.5	345.1	57.4	38.7	0.9	98.4	—	195.4	R 2.7	R 543.7	2,008.5	R 2,552.3
2022	0.1	468.4	R 98.0	57.6	1.4	133.1	—	290.0	R 4.2	R 762.8	2,317.8	R 3,080.7
2023	—	412.0	66.4	37.8	2.1	117.9	—	224.1	3.9	640.0	2,196.1	2,836.1

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[g] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[j] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: Expenditure totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2023, Kentucky

	Primary energy													
	Coal				Petroleum						Biomass			
	Coking coal	Steam coal	Total	Natural gas [a]	Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e,f]	Total [f,g,h]	Electricity [i]	Total energy [f,g,h]
Year	Prices in dollars per million Btu													
1970	0.38	0.44	0.42	0.48	0.73	1.71	2.93	0.44	1.24	1.26	1.47	0.71	2.16	1.01
1975	1.60	1.30	1.44	0.75	2.31	3.46	4.69	2.11	2.64	2.77	1.47	1.77	4.56	2.65
1980	1.81	1.75	1.77	2.66	5.43	5.44	9.65	3.58	6.45	5.76	1.46	3.75	8.63	5.08
1985	1.93	1.87	1.89	4.25	6.34	5.81	8.80	4.89	6.55	6.45	1.46	4.12	14.51	6.92
1990	1.80	1.86	1.84	3.47	5.92	5.27	9.25	3.61	4.93	5.48	1.67	3.70	10.50	5.72
1995	1.57	1.77	1.69	2.97	4.92	7.91	9.18	2.92	4.79	5.42	1.68	3.37	8.58	5.04
2000	1.62	1.59	1.60	4.63	8.04	11.76	11.64	3.97	5.38	7.39	1.31	5.14	8.83	6.29
2005	3.00	2.51	2.73	9.62	14.52	17.68	17.68	6.66	4.97	9.75	2.74	8.14	10.56	8.87
2006	3.33	2.71	2.98	9.37	16.59	19.59	20.04	7.79	5.51	10.81	2.67	8.59	11.87	9.57
2007	3.48	2.75	3.09	8.15	18.68	22.05	22.26	8.59	6.35	12.00	2.53	8.60	13.11	9.99
2008	4.37	3.14	3.68	10.05	25.00	26.36	26.02	12.41	8.39	15.97	2.85	11.21	14.11	12.16
2009	5.11	3.46	4.11	5.83	14.90	20.42	18.95	7.98	6.87	10.96	2.64	8.03	14.41	10.19
2010	5.41	3.36	4.17	5.40	18.86	21.38	22.55	11.66	R 10.69	R 16.43	2.70	R 10.16	14.80	R 11.70
2011	6.63	3.66	4.46	5.02	25.50	25.18	28.69	—	R 14.39	R 21.73	2.84	R 12.39	15.63	R 13.46
2012	—	3.92	3.92	3.84	25.70	18.46	29.29	16.91	R 13.20	R 18.32	2.70	R 10.94	15.68	12.56
2013	—	3.85	3.85	4.72	25.10	20.79	28.57	16.68	R 15.13	20.11	2.70	10.99	16.60	12.85
2014	—	3.68	3.68	5.63	23.42	14.52	27.31	15.95	R 14.63	R 17.04	3.28	R 9.81	16.64	R 11.85
2015	—	3.58	3.58	4.28	15.04	8.60	19.61	10.27	R 10.26	R 11.03	3.19	R 6.82	16.07	R 9.46
2016	—	3.47	3.47	3.73	12.10	8.47	17.43	7.32	R 8.16	R 9.26	3.11	R 5.93	16.61	R 8.86
2017	—	3.37	3.37	4.26	14.63	10.22	19.57	9.80	9.85	11.30	3.05	6.64	16.75	9.56
2018	—	3.42	3.42	4.19	17.76	11.79	21.70	11.12	11.29	13.12	2.66	7.44	16.65	10.03
2019	—	3.95	3.95	3.87	16.73	8.39	20.68	—	R 11.29	R 11.94	2.59	6.90	16.33	9.55
2020	—	4.04	4.04	3.33	12.33	7.67	16.97	—	11.35	10.50	2.10	5.93	15.57	8.78
2021	—	4.10	4.10	4.80	17.42	13.74	23.97	12.53	13.14	14.60	2.60	8.28	17.43	10.92
2022	—	5.16	5.16	7.46	28.50	13.61	31.57	20.03	R 25.02	R 21.80	2.91	R 11.40	21.72	R 14.32
2023	—	6.06	6.06	4.24	23.47	9.81	27.99	17.98	16.47	16.17	3.05	8.47	19.21	11.35
	Expenditures in million dollars													
1970	16.4	27.5	44.0	34.3	8.9	33.5	3.2	1.8	53.1	100.5	4.4	183.1	150.5	333.7
1975	52.1	50.1	102.3	47.5	44.7	77.0	4.8	9.9	116.5	252.8	6.4	409.0	479.9	888.9
1980	44.0	90.6	134.6	167.8	203.6	146.2	4.5	17.1	270.5	641.8	3.3	947.5	822.8	1,770.3
1985	60.5	117.4	177.8	227.4	215.2	69.2	39.0	9.5	246.5	579.3	3.8	989.0	1,283.4	2,272.4
1990	56.9	103.2	160.1	235.4	208.8	68.2	41.2	8.7	225.7	552.6	1.1	949.6	1,135.7	2,085.4
1995	60.3	99.2	159.5	281.4	174.7	77.1	55.8	1.9	210.5	520.0	1.9	962.8	1,156.6	2,119.4
2000	49.7	45.9	95.6	462.4	207.4	262.6	50.1	1.2	351.6	872.8	1.4	1,432.3	1,107.0	2,539.2
2005	80.5	79.3	159.7	1,042.1	389.1	444.6	196.5	5.6	430.3	1,466.1	43.1	2,710.9	1,516.0	4,226.9
2006	90.6	93.4	184.0	973.1	482.2	489.4	239.7	5.6	514.0	1,730.9	40.7	2,928.7	1,721.3	4,649.9
2007	102.7	94.3	197.0	852.5	512.8	544.8	131.3	5.4	550.5	1,744.7	40.6	2,834.8	1,923.4	4,758.2
2008	110.2	101.6	211.8	1,018.6	900.3	590.2	104.6	(s)	661.7	2,256.8	41.7	3,528.9	2,154.3	5,683.2
2009	87.2	91.2	178.4	516.4	523.6	365.3	77.5	3.3	569.5	1,539.3	22.2	2,256.3	2,067.1	4,323.4
2010	107.2	102.2	209.4	521.3	639.8	935.4	86.5	3.5	R 597.6	R 2,262.8	37.7	R 3,031.1	2,197.4	R 5,228.5
2011	85.3	127.6	212.9	493.2	989.8	1,136.3	108.5	—	R 644.7	R 2,879.3	39.7	R 3,625.2	2,246.7	R 5,871.9
2012	—	114.0	114.0	385.8	839.8	842.0	102.4	4.1	R 735.8	R 2,524.1	32.9	R 3,056.7	2,279.6	R 5,336.4
2013	—	106.9	106.9	489.3	788.8	599.1	100.7	3.2	R 623.9	R 2,115.7	36.3	R 2,748.2	2,050.3	R 4,798.5
2014	—	97.9	97.9	619.6	561.3	355.1	70.3	2.3	R 716.6	R 1,705.5	50.6	R 2,473.7	1,784.9	R 4,258.6
2015	—	94.4	94.4	467.4	297.3	221.5	52.8	0.9	R 526.8	R 1,099.4	49.8	R 1,711.0	1,609.8	R 3,320.8
2016	—	71.0	71.0	406.3	237.0	195.9	49.6	0.3	R 450.8	R 933.7	50.7	R 1,461.6	1,547.4	R 3,008.9
2017	—	74.4	74.4	460.6	256.8	261.2	56.2	1.5	369.0	944.7	51.7	1,531.5	1,571.4	3,102.9
2018	—	67.9	67.9	474.8	349.3	329.1	62.7	0.9	486.9	1,228.9	46.3	1,818.0	1,590.9	3,408.9
2019	—	71.0	71.0	450.0	358.0	235.6	58.3	—	R 481.9	R 1,133.8	44.2	R 1,699.0	1,574.0	R 3,273.0
2020	—	62.3	62.3	368.7	249.8	216.5	48.2	—	R 324.3	R 838.8	26.8	R 1,296.6	1,430.7	2,727.3
2021	—	71.3	71.3	565.2	338.2	383.5	68.3	0.9	R 516.7	R 1,307.5	38.5	R 1,982.6	1,694.3	R 3,676.9
2022	—	107.0	107.0	915.8	559.4	398.6	92.5	1.3	R 617.5	R 1,669.3	R 62.3	R 2,754.4	2,068.4	R 4,822.7
2023	—	106.1	106.1	530.1	449.8	283.6	78.3	1.0	584.6	1,397.2	53.4	2,086.8	1,733.2	3,820.0

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[i] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET6. Transportation sector energy price and expenditure estimates, selected years, 1970-2023, Kentucky

	Primary energy												
			Petroleum										
	Coal	Natural gas[a]	Aviation gasoline	Distillate fuel oil[b]	HGL[c]	Jet fuel[d]	Lubricants	Motor gasoline[e]	Residual fuel oil	Total	Total[f]	Electricity[g]	Total energy[f]
Year	Prices in dollars per million Btu												
1970	0.44	—	2.17	1.45	1.62	0.73	5.08	2.93	0.77	2.58	2.58	—	2.58
1975	1.30	—	3.45	2.78	3.19	2.03	7.48	4.69	1.46	4.34	4.34	—	4.34
1980	—	—	9.02	6.86	4.99	6.39	14.36	9.65	3.94	8.82	8.82	—	8.82
1985	—	—	9.99	6.78	6.46	6.17	18.18	8.80	—	8.20	8.21	—	8.21
1990	—	—	9.32	8.21	6.63	5.82	20.61	9.25	—	8.76	8.76	—	8.76
1995	—	4.65	8.36	7.68	12.14	4.15	21.75	9.18	—	8.40	8.40	—	8.40
2000	—	5.28	10.87	10.13	15.36	6.48	23.20	11.64	—	10.80	10.80	—	10.80
2005	—	10.45	18.56	16.80	21.00	12.90	35.22	17.68	7.48	17.02	17.02	—	17.02
2006	—	10.28	22.31	18.91	22.84	14.70	43.88	20.04	—	19.35	19.35	—	19.35
2007	—	8.86	23.70	20.29	25.13	16.00	47.16	22.26	—	21.17	21.17	—	21.17
2008	—	10.01	27.23	27.32	29.20	22.77	55.12	26.02	—	26.29	26.29	—	26.29
2009	—	6.70	20.32	17.54	24.11	12.73	56.07	18.95	—	17.98	17.98	—	17.98
2010	—	6.06	25.19	21.33	26.73	16.34	58.80	22.55	8.06	21.66	21.66	—	21.66
2011	—	9.31	31.64	27.38	30.08	22.55	69.54	28.69	—	27.75	27.75	—	27.75
2012	—	10.21	33.04	28.09	23.14	23.07	72.11	29.29	—	28.36	28.36	—	28.36
2013	—	R 10.03	32.71	28.14	24.69	22.03	69.42	28.57	—	27.79	27.78	—	27.78
2014	—	R 11.18	33.16	27.44	27.44	20.59	69.44	27.31	—	26.69	26.69	—	26.69
2015	—	R 11.25	24.86	19.04	16.39	11.88	67.28	19.61	—	18.67	18.66	—	18.66
2016	—	R 9.93	21.62	16.30	15.29	9.72	65.78	17.43	—	16.29	16.28	—	16.28
2017	—	R 9.84	24.13	18.74	19.54	12.10	67.25	19.57	—	18.41	18.41	—	18.41
2018	—	R 9.42	27.04	22.44	20.16	15.44	72.37	21.70	—	R 21.12	R 21.12	—	R 21.12
2019	—	R 9.29	25.57	21.32	16.63	14.31	74.92	20.68	—	20.07	20.07	—	20.07
2020	—	R 8.49	22.34	17.51	15.59	9.10	75.34	16.97	—	16.03	16.03	—	16.03
2021	—	R 11.90	28.86	23.17	24.47	14.48	81.25	23.97	—	22.32	22.32	—	22.32
2022	—	R 14.37	36.02	35.30	24.36	25.52	97.37	31.57	—	R 31.81	R 31.81	—	R 31.81
2023	—	15.09	32.62	29.67	19.75	20.51	105.48	27.99	—	27.36	27.36	—	27.36
	Expenditures in million dollars												
1970	0.1	—	3.6	41.4	0.3	12.6	11.4	510.0	0.7	580.0	580.1	—	580.1
1975	(s)	—	2.2	100.8	0.8	24.6	24.0	994.0	(s)	1,146.5	1,146.5	—	1,146.5
1980	—	—	5.1	511.0	0.2	104.4	45.1	2,002.0	3.4	2,671.1	2,671.1	—	2,671.1
1985	—	—	3.3	535.3	2.4	119.3	52.0	1,789.8	—	2,502.1	2,533.1	—	2,533.1
1990	—	—	2.4	787.1	1.7	188.2	66.3	2,029.0	—	3,074.6	3,100.8	—	3,100.8
1995	—	0.1	1.9	853.3	2.2	148.2	66.8	2,241.3	—	3,313.7	3,313.8	—	3,313.8
2000	—	0.4	1.7	1,372.1	3.3	244.4	76.1	2,909.8	—	4,607.4	4,607.8	—	4,607.8
2005	—	0.3	6.5	2,486.8	7.4	606.1	97.4	4,746.0	0.1	7,950.4	7,950.7	—	7,950.7
2006	—	0.1	7.3	2,915.8	10.1	592.3	118.3	5,356.2	—	9,000.0	9,000.1	—	9,000.1
2007	—	0.1	7.7	3,237.5	8.9	723.8	131.2	6,060.2	—	10,169.3	10,169.4	—	10,169.4
2008	—	0.1	6.6	3,756.0	15.6	958.6	142.4	6,789.9	—	11,669.2	11,669.3	—	11,669.3
2009	—	(s)	4.2	R 2,222.4	8.2	710.7	130.3	5,057.1	—	R 8,132.9	R 8,132.9	—	R 8,132.9
2010	—	(s)	4.4	R 2,822.9	1.7	915.4	167.7	5,965.8	0.3	R 9,878.1	R 9,878.2	—	R 9,878.2
2011	—	(s)	5.1	R 3,725.8	2.2	1,323.4	189.4	7,331.1	—	R 12,577.1	R 12,577.1	—	R 12,577.1
2012	—	(s)	5.0	R 3,608.2	1.4	1,343.7	176.9	7,393.4	—	R 12,528.6	R 12,528.6	—	R 12,528.6
2013	—	R 0.3	4.2	R 3,574.4	1.7	1,331.5	175.7	7,203.5	—	R 12,291.0	R 12,291.3	—	R 12,291.3
2014	—	R 0.5	5.0	R 3,669.1	2.1	1,243.7	183.1	6,849.1	—	R 11,952.1	R 11,952.6	—	R 11,952.6
2015	—	R 1.3	3.8	R 2,480.9	1.7	748.8	191.5	5,012.5	—	R 8,439.2	R 8,440.5	—	R 8,440.5
2016	—	1.3	3.4	R 2,082.9	2.0	645.2	176.4	4,561.3	—	R 7,471.2	R 7,472.5	—	R 7,472.5
2017	—	R 0.5	4.2	R 2,391.5	1.3	892.1	166.1	5,098.9	—	R 8,554.1	R 8,554.6	—	R 8,554.6
2018	—	R 0.8	4.9	R 3,059.4	1.0	R 1,239.7	174.1	5,666.9	—	R 10,146.0	R 10,146.8	—	R 10,146.8
2019	—	R 0.6	5.6	2,731.1	0.9	R 1,105.6	R 168.7	5,388.5	—	R 9,400.4	R 9,401.0	—	R 9,401.0
2020	—	R 0.3	4.5	R 2,111.3	0.6	R 683.3	R 153.5	3,953.6	—	R 6,906.8	R 6,907.1	—	R 6,907.1
2021	—	R 0.1	6.0	R 2,942.5	1.1	R 1,205.1	R 174.4	6,005.9	—	R 10,334.9	R 10,335.1	—	R 10,335.1
2022	—	R 0.3	7.8	R 4,618.4	1.8	R 2,229.3	R 223.3	7,886.2	—	R 14,966.8	R 14,967.1	—	R 14,967.1
2023	—	(s)	6.7	3,808.8	1.3	1,767.0	176.7	7,109.0	—	12,869.5	12,869.5	—	12,869.5

[a] Transportation use of natural gas as vehicle fuel only.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET7. Electric power sector price and expenditure estimates, selected years, 1970-2023, Kentucky

Year	Coal	Natural gas [a]	Petroleum: Distillate fuel oil	Petroleum: Petroleum coke	Petroleum: Residual fuel oil	Petroleum: Total	Nuclear fuel	Biomass: Wood and waste [b]	Electricity imports [c]	Total energy [d]
	Prices in dollars per million Btu									
1970	0.21	0.29	1.12	—	0.87	0.88	—	—	—	0.22
1975	0.64	0.68	2.25	—	1.69	1.72	—	—	—	0.64
1980	1.31	2.16	6.54	—	—	6.54	—	—	—	1.32
1985	1.41	3.54	5.80	—	—	5.80	—	—	—	1.43
1990	1.19	2.98	5.75	—	—	5.75	—	—	—	1.20
1995	1.11	2.94	4.28	—	—	4.28	—	—	—	1.11
2000	1.02	4.96	6.81	—	—	6.81	—	—	—	1.05
2005	1.54	9.10	12.45	0.78	—	1.15	—	0.26	—	1.66
2006	1.73	7.74	14.40	1.31	—	1.68	—	0.34	—	1.80
2007	1.77	7.56	16.27	1.35	—	2.01	—	0.41	—	1.89
2008	2.18	11.26	21.45	1.46	—	2.36	—	0.25	—	2.27
2009	2.17	6.96	14.17	0.98	—	1.90	—	0.28	—	2.21
2010	2.26	5.82	16.55	0.79	—	1.63	—	0.41	—	2.32
2011	2.34	6.00	23.03	0.53	—	2.25	—	0.40	—	2.39
2012	2.42	3.52	23.11	1.83	—	3.48	—	0.68	—	2.48
2013	2.36	5.74	22.61	1.81	—	3.51	—	0.63	—	2.43
2014	2.34	6.02	21.42	1.77	—	3.92	—	0.48	—	2.47
2015	2.22	3.52	13.21	1.68	—	3.03	—	0.49	—	2.31
2016	2.11	3.19	10.62	1.55	—	2.35	—	0.63	—	2.21
2017	1.99	3.64	12.78	1.50	—	3.62	—	0.63	9.18	2.20
2018	1.96	3.59	15.67	—	—	15.67	—	0.72	10.74	2.23
2019	1.91	3.22	14.68	—	—	14.68	—	0.69	—	2.16
2020	1.85	2.86	11.32	—	—	11.32	—	0.70	—	2.05
2021	1.88	4.16	15.69	—	—	15.69	—	0.71	—	2.30
2022	2.38	6.61	25.93	3.85	—	22.64	—	0.73	—	3.34
2023	2.50	3.41	22.14	—	—	22.14	—	0.86	—	2.70
	Expenditures in million dollars									
1970	87.4	2.5	(s)	—	0.7	0.7	—	—	—	90.6
1975	308.4	0.2	0.1	—	1.1	1.2	—	—	—	309.8
1980	730.9	4.2	8.6	—	—	8.6	—	—	—	743.7
1985	870.2	4.1	9.1	—	—	9.1	—	—	—	883.4
1990	850.3	0.9	7.1	—	—	7.1	—	—	—	858.3
1995	920.1	2.6	7.0	—	—	7.0	—	—	—	929.7
2000	954.3	21.3	12.3	—	—	12.3	—	—	—	987.8
2005	1,418.3	161.3	16.6	31.9	—	48.5	—	0.2	—	1,628.3
2006	1,657.7	97.8	16.1	49.0	—	65.1	—	0.4	—	1,821.0
2007	1,691.6	150.4	22.8	41.2	—	64.0	—	0.5	—	1,906.4
2008	2,101.5	110.6	31.7	45.7	—	77.4	—	0.3	—	2,289.8
2009	1,940.2	59.9	23.0	21.0	—	43.9	—	0.2	—	2,044.3
2010	2,169.2	114.7	22.0	18.8	—	40.7	—	0.2	—	2,324.9
2011	2,248.5	95.2	33.1	9.2	—	42.3	—	0.3	—	2,386.3
2012	2,131.7	112.1	30.2	28.3	—	58.5	—	0.8	—	2,303.1
2013	2,091.0	85.9	28.9	25.8	—	54.6	—	0.8	—	2,232.3
2014	2,077.7	166.5	30.1	20.3	—	50.5	—	0.6	—	2,295.2
2015	1,708.5	186.4	18.6	17.7	—	36.3	—	0.5	—	1,931.7
2016	1,512.3	218.5	13.0	19.4	—	32.4	—	0.8	—	1,763.9
2017	1,227.1	309.1	14.1	7.1	—	21.2	—	0.9	0.1	1,558.3
2018	1,245.1	423.0	16.3	—	—	16.3	—	0.9	0.2	1,685.4
2019	1,064.1	379.7	14.3	—	—	14.3	—	0.8	—	1,459.0
2020	865.8	307.3	10.8	—	—	10.8	—	1.0	—	1,185.0
2021	1,000.8	468.0	14.3	—	—	14.3	—	1.0	—	1,484.1
2022	1,194.1	933.9	31.6	0.8	—	32.4	—	0.9	—	2,161.3
2023	1,159.2	396.0	15.8	—	—	15.8	—	1.0	—	1,571.9

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[c] Electricity imported from Canada and Mexico.
[d] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET1. Primary energy, electricity, and total energy price and expenditure estimates, selected years, 1970-2023, Louisiana

	Primary energy																
	Coal				Petroleum								Biomass				
	Coking coal	Steam coal	Total	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Nuclear fuel	Wood and waste [g,h]	Total [h,i,j,k]	Electric power sector [l,k,l]	Electricity [m]	Total energy [h,i,j]
Year	Prices in dollars per million Btu																
1970	—	—	—	0.27	0.86	1.15	0.72	2.86	0.45	0.99	1.40	—	1.49	0.67	0.21	4.69	0.95
1975	—	—	—	0.75	2.34	2.63	2.01	4.49	1.62	2.77	2.86	—	1.62	1.65	0.73	6.24	2.08
1980	—	1.25	1.25	1.61	6.02	5.50	6.34	9.89	3.31	7.12	6.32	—	1.87	3.99	2.19	11.49	4.78
1985	—	2.14	2.14	3.09	6.28	5.59	5.70	9.36	3.60	7.21	6.67	0.86	2.07	4.76	2.46	18.25	6.54
1990	—	1.68	1.68	2.11	7.57	8.53	5.79	9.47	2.10	6.23	6.79	0.88	1.02	4.04	1.49	17.77	5.90
1995	—	1.56	1.56	2.00	6.76	5.21	3.75	9.34	1.95	4.80	5.53	0.64	1.23	3.44	1.44	17.11	5.16
2000	—	1.32	1.32	4.20	9.24	7.94	6.27	11.52	3.94	7.44	7.93	0.62	1.47	5.63	2.46	19.12	7.60
2005	—	1.59	1.59	8.99	16.51	12.59	12.59	17.83	6.86	13.25	13.95	0.46	2.81	10.22	4.32	23.65	13.13
2006	—	1.77	1.77	7.54	18.54	15.22	14.32	20.11	9.31	15.93	16.43	0.49	2.73	11.19	3.16	24.48	14.25
2007	—	2.14	2.14	7.31	19.80	17.05	15.47	21.87	8.68	17.99	18.03	0.55	2.60	11.97	3.48	24.77	15.14
2008	—	2.36	2.36	9.49	26.89	21.55	22.50	26.09	8.86	25.09	23.58	0.50	2.94	16.10	4.56	27.81	19.87
2009	—	2.35	2.35	4.69	16.51	13.29	12.37	18.55	9.44	15.95	15.17	0.60	2.74	9.91	2.52	20.88	12.79
2010	—	2.40	2.40	5.02	20.06	16.07	16.15	21.83	8.54	R 19.95	R 18.64	0.75	2.80	R 11.25	2.83	23.12	R 14.81
2011	—	2.67	2.67	4.59	26.10	19.82	22.33	27.68	9.12	R 25.44	R 23.50	0.78	2.90	R 13.45	2.92	22.76	R 17.47
2012	—	2.90	2.90	3.27	26.85	13.68	22.79	28.14	8.93	R 25.39	R 21.66	0.80	2.73	R 11.52	2.43	20.49	R 15.10
2013	—	2.92	2.92	4.17	26.68	12.99	22.01	27.30	8.22	R 23.80	R 20.69	0.91	2.73	R 11.48	2.73	24.30	R 15.25
2014	—	2.98	2.98	5.18	25.58	13.08	20.19	26.03	8.02	R 22.22	R 20.23	0.84	3.30	R 11.41	2.99	24.40	R 15.10
2015	—	3.23	3.23	3.49	17.68	7.62	11.63	18.27	4.47	R 12.77	R 12.78	0.80	3.10	R 7.47	2.45	23.19	R 10.54
2016	—	2.99	2.99	3.25	15.03	7.44	9.30	16.39	3.32	R 10.54	R 11.16	0.58	3.01	R 6.47	2.12	22.68	R 9.31
2017	—	3.00	3.00	3.82	17.27	9.50	11.64	18.60	4.42	13.03	12.94	0.74	2.93	7.76	2.48	23.65	10.51
2018	—	3.18	3.18	3.76	20.58	11.31	15.19	20.51	6.08	16.32	15.75	0.73	2.66	8.64	2.54	23.40	11.60
2019	—	3.19	3.19	R 3.48	19.64	7.84	14.10	19.07	6.02	15.67	13.84	0.64	2.64	7.82	2.23	23.40	10.65
2020	—	4.85	4.85	R 2.80	16.09	6.30	9.64	15.59	3.93	R 10.94	R 10.09	0.55	2.16	5.97	1.91	22.84	8.47
2021	—	5.17	5.17	R 4.66	21.09	11.11	14.26	22.40	6.10	R 17.41	R 15.62	0.54	2.73	9.56	3.80	26.67	R 12.48
2022	—	2.88	2.88	R 7.38	32.61	11.45	25.74	29.15	8.17	R 24.45	R 20.29	0.55	2.99	R 12.24	4.71	31.38	R 15.99
2023	—	3.37	3.37	3.94	27.14	7.75	20.52	25.75	7.02	21.82	16.56	0.57	3.16	9.16	2.39	27.03	12.42
	Expenditures in million dollars																
1970	—	—	—	376.4	59.1	197.5	23.4	523.4	31.1	231.3	1,065.8	—	12.4	1,454.7	-72.9	435.9	1,817.7
1975	—	—	—	1,036.2	268.9	480.0	67.9	1,018.8	280.0	794.1	2,909.7	—	14.0	3,959.9	-303.4	710.5	4,367.0
1980	—	3.1	3.1	2,396.3	752.1	1,011.7	306.8	2,449.2	1,265.9	3,948.1	9,733.9	—	22.1	12,155.4	-1,079.1	1,899.6	12,975.9
1985	—	340.1	340.1	3,152.5	975.9	1,345.7	410.5	2,424.8	546.9	2,157.5	7,861.2	22.5	30.9	11,414.7	-1,167.8	3,664.5	13,911.4
1990	—	351.8	351.8	2,496.1	1,324.5	1,396.5	845.1	2,186.7	298.6	2,534.3	8,585.7	132.4	72.5	11,641.5	-961.8	3,739.5	14,419.2
1995	—	337.3	337.3	2,601.0	1,438.4	1,208.2	613.0	2,295.9	281.0	2,102.5	7,939.0	105.1	140.0	11,122.4	-1,056.7	4,056.2	14,121.8
2000	—	334.3	334.3	5,074.4	2,082.9	3,018.4	1,257.8	3,265.7	724.9	3,858.8	14,208.6	102.0	167.6	19,887.0	-1,856.3	5,117.3	23,147.9
2005	—	402.1	402.1	9,346.7	3,269.7	2,133.9	2,017.4	5,262.1	703.9	9,067.3	22,454.3	75.4	353.7	32,632.1	-3,235.4	6,062.4	35,459.1
2006	—	468.8	468.8	7,399.4	3,883.3	3,068.3	1,888.7	6,621.5	992.3	11,687.9	28,141.9	84.7	335.5	36,430.3	-2,094.9	6,265.6	40,601.0
2007	—	533.9	533.9	7,579.1	3,740.3	3,269.0	1,965.8	6,506.1	864.5	14,820.3	31,165.9	98.7	315.8	39,693.3	-2,379.4	6,498.4	43,812.3
2008	—	619.9	619.9	9,524.8	5,053.2	8,122.4	2,484.9	6,864.8	952.6	19,864.3	43,342.2	80.4	229.9	53,797.1	-3,143.2	7,215.7	57,869.7
2009	—	593.8	593.8	4,442.5	R 3,537.7	5,947.4	1,127.4	5,201.6	940.9	8,950.2	R 25,705.2	105.1	167.7	R 31,014.4	-1,698.3	5,397.0	R 34,713.1
2010	—	622.7	622.7	5,515.0	R 4,986.1	5,472.0	368.5	6,072.1	924.5	R 11,994.3	R 29,817.5	147.1	207.2	R 36,309.5	-2,161.5	6,435.6	R 40,583.6
2011	—	720.4	720.4	5,158.3	R 7,024.6	6,993.8	512.1	7,639.0	1,016.6	R 14,037.5	R 37,223.5	135.4	232.8	R 43,470.4	-2,310.9	6,425.6	R 47,585.1
2012	—	691.8	691.8	3,929.7	R 5,536.5	5,603.2	534.3	7,535.0	802.9	R 10,823.3	R 30,835.3	131.5	224.2	R 35,812.4	-1,846.4	5,675.3	R 39,641.4
2013	—	666.9	666.9	R 4,730.5	R 5,178.8	5,675.0	456.9	7,565.4	603.3	R 9,577.3	R 29,056.7	160.6	258.0	R 34,872.7	-1,979.1	6,349.7	R 39,243.3
2014	—	626.6	626.6	R 6,098.3	R 4,909.0	5,350.9	453.3	7,093.0	340.7	R 9,333.1	R 27,480.0	152.6	R 384.2	R 34,741.7	-2,137.4	6,777.8	R 39,382.1
2015	—	562.1	562.1	R 4,407.5	R 3,670.9	3,419.2	263.2	5,176.5	123.5	R 4,926.2	R 17,579.4	128.7	R 315.8	R 22,993.6	-1,784.9	6,487.8	R 27,696.5
2016	—	420.7	420.7	R 4,350.8	R 2,880.2	3,195.1	200.1	4,488.0	125.1	R 4,041.3	R 14,929.6	104.7	352.9	R 20,158.8	-1,501.1	6,340.9	R 24,998.6
2017	—	426.8	426.8	R 5,074.3	R 3,160.9	4,393.3	256.4	4,910.8	363.6	5,676.2	R 18,761.2	119.3	295.8	R 24,677.4	-1,581.3	6,566.8	R 29,662.9
2018	—	438.8	438.8	R 5,340.3	R 3,692.4	5,307.1	R 337.3	5,379.7	156.7	6,627.8	R 21,501.0	130.5	272.1	R 27,682.6	-1,701.1	6,741.5	R 32,723.1
2019	—	289.6	289.6	R 5,038.7	R 3,608.2	3,923.5	R 336.2	5,071.5	110.3	R 5,887.2	R 18,936.9	93.8	241.7	R 24,600.6	-1,389.5	6,690.9	R 29,902.0
2020	—	236.3	236.3	R 4,067.6	R 2,771.2	4,122.8	135.3	3,661.3	93.4	R 3,879.8	R 14,663.8	98.1	R 194.4	R 19,260.1	-1,199.5	6,280.2	R 24,340.7
2021	—	495.3	495.3	R 6,347.6	R 3,969.1	7,495.4	228.5	5,880.3	256.6	R 6,275.3	R 24,105.3	96.3	R 243.7	R 31,288.1	-2,437.8	7,453.7	R 36,304.0
2022	—	278.7	278.7	R 11,089.6	R 6,250.0	6,844.7	R 527.6	7,454.8	352.3	R 6,275.0	R 27,704.3	92.5	R 260.1	R 39,425.2	-3,155.6	9,236.5	R 45,506.1
2023	—	196.2	196.2	5,929.6	5,056.4	4,638.3	425.0	6,689.0	251.4	4,894.8	21,954.9	73.4	275.5	28,429.6	-1,392.3	7,959.7	34,997.0

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[l] Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
[m] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET2. Total end-use energy price and expenditure estimates, selected years, 1970-2023, Louisiana

Year	Primary energy											Electricity [k]	Total energy [h,i,j]
			Petroleum							Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g,h]	Total [h,i,j]		
	Prices in dollars per million Btu												
1970	—	0.29	0.87	1.15	0.72	2.86	0.45	0.99	1.40	1.49	0.76	4.69	0.95
1975	—	0.80	2.34	2.63	2.01	4.49	1.59	2.77	2.90	1.62	1.84	6.24	2.08
1980	1.25	1.44	6.12	5.50	6.34	9.89	3.28	7.12	6.41	1.87	4.34	11.49	4.78
1985	1.46	3.24	6.28	5.59	5.70	9.36	3.60	7.21	6.68	2.07	5.32	18.25	6.54
1990	1.56	2.26	7.58	8.53	5.79	9.47	2.10	6.24	6.79	1.03	4.78	17.77	5.90
1995	1.73	2.07	6.77	5.21	3.75	9.34	1.95	4.98	5.59	1.24	4.03	17.11	5.16
2000	1.36	4.13	9.28	7.94	6.27	11.52	3.94	7.68	8.01	1.48	6.49	19.12	7.60
2005	1.82	9.03	16.53	12.59	12.59	17.83	6.87	13.61	14.20	2.81	12.03	23.65	13.13
2006	2.07	7.59	18.55	15.22	14.32	20.11	9.31	16.33	16.62	2.73	13.24	24.48	14.25
2007	2.59	7.31	19.81	17.05	15.47	21.87	8.70	18.42	18.25	2.60	14.18	24.77	15.14
2008	2.97	9.43	26.92	21.55	22.50	26.09	8.87	25.66	23.84	2.94	19.09	27.81	19.87
2009	3.59	4.84	16.52	13.29	12.37	18.55	9.44	16.38	15.31	2.75	11.94	20.88	12.79
2010	3.07	5.13	20.07	16.07	16.15	21.83	8.54	R 20.90	R 18.97	2.81	R 13.87	23.12	R 14.81
2011	4.71	4.67	26.11	19.82	22.33	27.68	9.12	R 27.55	R 24.13	2.91	R 16.86	22.76	R 17.47
2012	5.32	3.40	26.85	13.68	22.79	28.14	8.93	R 27.21	R 22.10	2.74	R 14.46	20.49	R 15.10
2013	5.31	4.27	26.69	12.99	22.01	27.30	8.22	R 26.78	R 21.35	2.74	R 14.23	24.30	R 15.25
2014	5.20	5.35	R 25.59	13.08	20.19	26.03	8.02	R 25.01	R 20.94	3.30	R 13.99	24.40	R 15.10
2015	5.50	3.71	17.70	7.62	11.63	18.27	4.47	R 14.13	R 13.13	3.10	R 9.03	23.19	R 10.54
2016	5.35	3.44	15.03	7.44	9.30	16.39	3.32	R 11.90	R 11.54	3.01	R 7.76	22.68	R 9.31
2017	4.66	R 3.98	17.28	9.50	11.64	18.60	4.42	14.40	13.32	2.93	9.08	23.65	10.51
2018	5.40	3.89	20.59	11.31	15.19	20.51	6.08	18.09	16.22	2.67	10.26	23.40	11.60
2019	5.42	3.72	19.65	7.84	14.10	19.07	6.02	17.13	14.17	2.64	9.20	23.40	10.65
2020	5.69	R 2.98	16.09	6.30	9.64	15.59	3.93	R 12.06	10.31	2.17	6.95	22.84	8.47
2021	6.13	4.46	21.10	11.11	14.26	22.40	6.10	R 19.30	R 15.97	R 2.74	10.97	26.67	R 12.48
2022	6.93	R 7.49	R 32.62	11.45	25.74	29.15	8.17	R 27.43	R 20.68	2.99	R 14.22	31.38	R 15.99
2023	8.59	4.32	27.14	7.75	20.52	25.75	7.02	22.75	16.67	3.17	10.72	27.03	12.42
	Expenditures in million dollars												
1970	—	304.1	58.8	197.5	23.4	523.4	30.8	231.3	1,065.3	12.4	1,381.8	435.9	1,817.7
1975	—	796.7	267.9	480.0	67.9	1,018.8	217.0	794.1	2,845.8	14.0	3,656.5	710.5	4,367.0
1980	3.1	1,506.6	722.2	1,011.7	306.8	2,449.2	1,106.4	3,948.1	9,544.5	22.1	11,076.3	1,899.6	12,975.9
1985	15.9	2,337.1	971.4	1,345.7	410.5	2,424.8	545.6	2,157.5	7,855.4	30.9	10,246.9	3,664.5	13,911.4
1990	24.8	2,000.7	1,319.8	1,396.5	845.1	2,186.7	297.5	2,533.7	8,579.3	71.9	10,679.7	3,739.5	14,419.2
1995	13.5	1,989.8	1,436.7	1,208.2	613.0	2,295.9	280.8	2,088.6	7,923.3	139.1	10,065.6	4,056.2	14,121.8
2000	1.9	3,688.3	2,072.6	3,018.4	1,257.8	3,265.7	707.1	3,851.8	14,173.5	166.9	18,030.6	5,117.3	23,147.9
2005	2.9	6,741.6	3,260.5	2,133.9	2,017.4	5,262.1	573.6	9,053.6	22,301.1	351.1	29,396.7	6,062.4	35,459.1
2006	3.7	5,898.6	3,880.4	3,068.3	1,888.7	6,621.5	970.3	11,670.8	28,100.0	333.1	34,335.4	6,265.6	40,601.0
2007	4.5	5,889.2	3,735.0	3,269.0	1,965.8	6,506.1	840.5	14,791.1	31,107.4	312.8	37,313.9	6,498.4	43,812.3
2008	5.2	7,157.0	5,046.9	8,122.4	2,484.9	6,864.8	928.3	19,817.7	43,265.0	226.7	50,653.9	7,215.7	57,869.7
2009	1.2	3,474.7	R 3,532.3	5,947.4	1,127.4	5,201.6	937.4	8,928.8	R 25,675.0	165.2	R 29,316.1	5,397.0	R 34,713.1
2010	1.6	4,219.1	R 4,981.6	5,472.0	368.5	6,072.1	916.8	R 11,912.1	R 29,723.0	204.3	R 34,148.0	6,435.6	R 40,583.6
2011	6.1	3,854.8	R 7,018.1	6,993.8	512.1	7,639.0	1,014.9	R 13,890.9	R 37,068.7	229.9	R 41,159.5	6,425.6	R 47,585.1
2012	12.2	2,965.0	R 5,529.5	5,603.2	534.3	7,535.0	802.7	R 10,762.1	R 30,766.8	222.0	R 33,966.1	5,675.3	R 39,641.4
2013	12.2	R 3,672.5	R 5,170.1	5,675.0	456.9	7,565.4	603.0	R 9,483.1	R 28,953.5	255.3	R 32,893.5	6,349.7	R 39,243.3
2014	15.2	R 4,838.2	R 4,899.7	5,350.9	453.3	7,093.0	340.6	R 9,232.9	R 27,370.4	R 380.4	R 32,604.3	6,777.8	R 39,382.1
2015	20.5	R 3,381.8	R 3,662.8	3,419.2	263.2	5,176.5	123.1	R 4,849.6	R 17,494.4	312.0	R 21,208.7	6,487.8	R 27,696.5
2016	21.8	R 3,438.5	R 2,878.5	3,195.1	200.1	4,488.0	125.1	R 3,961.1	R 14,847.8	349.5	R 18,657.6	6,340.9	R 24,998.6
2017	17.6	R 4,136.5	R 3,157.4	4,393.3	256.4	4,910.8	363.6	5,568.2	R 18,649.7	292.3	R 23,096.1	6,566.8	R 29,662.9
2018	21.4	R 4,316.6	R 3,688.8	5,307.1	R 337.3	5,379.7	156.7	6,504.7	R 21,374.4	269.2	R 25,981.6	6,741.5	R 32,723.1
2019	17.4	R 4,086.4	R 3,604.1	3,923.5	R 336.2	5,071.5	110.3	R 5,823.3	R 18,868.8	238.5	R 23,211.2	6,690.9	R 29,902.0
2020	19.0	R 3,246.0	R 2,770.4	4,122.8	135.3	3,661.3	93.4	R 3,819.7	R 14,603.0	R 192.6	R 18,060.5	6,280.2	R 24,340.7
2021	26.8	R 4,627.7	R 3,966.8	7,495.4	228.5	5,880.3	256.6	R 6,127.7	R 23,955.5	R 240.4	R 28,850.3	7,453.7	R 36,304.0
2022	34.5	R 8,460.0	R 6,245.1	6,844.7	R 527.6	7,454.8	352.3	R 6,094.2	R 27,518.6	R 256.5	R 36,269.6	9,236.5	R 45,506.1
2023	35.8	4,828.8	5,054.4	4,638.3	425.0	6,689.0	251.4	4,843.2	21,901.3	271.4	27,037.4	7,959.7	34,997.0

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. · Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2023, Louisiana

Year	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
	Prices in dollars per million Btu									
1970	—	0.75	0.96	2.17	1.60	2.16	0.71	0.88	6.58	2.26
1975	—	1.33	2.24	4.39	3.40	4.36	1.39	1.52	7.96	3.28
1980	2.97	3.28	6.65	8.54	—	8.52	3.57	3.53	13.81	7.79
1985	—	5.47	3.24	7.68	6.80	7.61	4.04	5.52	20.27	12.88
1990	—	5.85	6.46	11.43	6.37	11.22	3.53	6.00	21.71	14.61
1995	2.61	5.81	7.78	10.64	3.95	10.47	2.87	5.83	21.20	14.75
2000	2.87	7.84	8.36	15.09	7.78	14.94	4.37	8.61	22.49	17.00
2005	—	12.70	13.84	22.95	13.28	22.74	6.83	13.32	26.00	21.90
2006	—	14.12	15.99	24.97	16.91	24.77	7.87	14.96	26.77	23.39
2007	4.51	13.73	17.50	26.33	15.36	26.02	8.70	14.29	27.47	23.59
2008	—	14.96	24.36	30.88	19.04	30.01	10.72	15.88	30.14	25.88
2009	—	12.78	14.23	26.09	19.42	25.54	8.05	13.68	23.75	20.82
2010	—	11.45	17.28	29.36	20.58	29.24	9.50	12.41	26.32	21.99
2011	—	11.17	24.87	32.40	25.42	32.37	11.42	12.47	26.27	22.32
2012	—	11.38	24.79	29.69	26.61	29.67	12.71	12.31	24.54	21.44
2013	—	10.62	25.78	29.39	26.12	29.36	12.45	11.46	27.63	22.98
2014	—	10.61	24.85	34.67	25.33	34.60	12.14	11.68	28.05	22.93
2015	—	10.52	15.59	25.99	16.65	25.77	8.37	11.20	27.35	22.99
2016	—	11.10	13.32	24.98	13.37	24.71	7.15	11.77	27.37	23.54
2017	—	12.77	15.49	29.21	16.76	28.85	8.00	13.64	28.53	24.98
2018	—	11.41	17.03	30.28	24.15	30.21	8.85	12.21	28.10	23.80
2019	—	11.26	16.36	26.41	22.49	26.25	8.51	12.00	28.71	24.22
2020	—	11.93	13.43	23.13	14.61	22.97	7.04	12.54	28.34	24.36
2021	—	12.63	16.04	30.26	23.07	30.13	8.45	R 13.56	32.30	27.16
2022	—	R 15.61	24.78	33.62	36.47	33.52	13.07	R 16.40	37.91	R 32.29
2023	—	16.01	22.69	31.14	33.53	31.07	11.95	16.87	33.85	30.02
	Expenditures in million dollars									
1970	—	66.7	(s)	19.1	0.2	19.3	1.2	87.2	209.6	296.8
1975	—	131.6	0.1	29.8	0.4	30.3	2.8	164.7	323.8	488.5
1980	0.1	248.7	0.2	31.8	—	32.0	4.9	285.7	792.9	1,078.6
1985	—	344.3	0.1	24.7	0.7	25.4	10.6	380.4	1,395.0	1,775.4
1990	—	325.2	0.2	28.8	0.5	29.5	7.5	362.1	1,587.5	1,949.6
1995	(s)	315.9	0.1	21.7	0.2	21.9	8.7	346.6	1,744.5	2,091.0
2000	—	414.9	0.1	110.1	1.1	111.3	6.5	532.7	2,127.1	2,659.8
2005	—	545.7	0.4	73.0	0.6	74.0	4.0	623.7	2,542.0	3,165.7
2006	—	490.2	0.5	81.5	0.8	82.8	4.1	577.0	2,568.2	3,145.2
2007	(s)	527.5	0.5	54.1	0.5	55.1	5.0	587.6	2,706.8	3,294.4
2008	—	576.6	8.3	74.5	0.3	83.1	6.8	666.5	2,966.8	3,633.4
2009	—	480.1	2.1	81.9	0.2	84.2	7.4	571.8	2,410.9	2,982.7
2010	—	533.9	0.3	82.1	0.2	82.7	9.4	626.0	2,935.2	3,561.2
2011	—	448.1	0.1	86.5	0.1	86.8	10.9	545.8	2,869.9	3,415.7
2012	—	367.4	0.2	50.8	(s)	51.0	10.2	428.6	2,514.4	2,943.0
2013	—	419.3	0.3	52.3	0.1	52.6	13.0	484.9	2,895.5	3,380.4
2014	—	484.8	0.3	72.6	(s)	73.0	12.8	570.6	3,005.5	3,576.1
2015	—	397.0	0.6	46.4	(s)	47.0	2.4	446.4	2,943.6	3,390.0
2016	—	356.2	0.5	41.9	(s)	42.4	1.4	400.1	2,862.0	3,262.0
2017	—	379.1	0.7	49.6	(s)	50.3	1.3	430.8	2,875.0	3,305.7
2018	—	440.8	0.1	52.9	0.1	53.2	2.0	496.0	3,074.1	3,570.1
2019	—	412.9	0.5	51.1	(s)	51.6	1.9	466.4	3,035.1	3,501.5
2020	—	390.3	0.4	46.0	(s)	46.5	R 1.2	R 437.9	2,943.0	R 3,380.9
2021	—	466.8	0.3	63.7	0.1	64.1	R 1.6	R 532.5	3,351.6	R 3,884.1
2022	—	R 561.2	0.5	57.0	0.1	57.6	R 3.3	R 622.0	4,067.1	R 4,689.1
2023	—	473.7	0.4	56.8	0.1	57.3	1.9	532.9	3,666.4	4,199.3

[a] Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2023, Louisiana

Year	Primary energy										Electricity [j]	Total energy [g,h,i]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f,g]	Total [g,h,i]		
	Prices in dollars per million Btu											
1970	—	0.37	0.89	1.04	0.59	2.86	0.49	1.04	0.71	0.49	5.07	1.61
1975	—	0.77	2.14	2.36	2.01	4.49	1.76	2.20	1.39	1.27	6.99	2.88
1980	1.24	2.60	6.36	5.00	5.53	9.89	3.55	3.77	3.57	3.41	12.08	5.54
1985	—	5.09	6.13	4.96	6.80	9.36	4.12	5.92	4.04	5.43	20.24	13.04
1990	—	5.05	5.47	7.62	6.37	9.47	2.62	6.58	3.53	5.37	20.57	14.90
1995	1.73	4.98	4.08	8.48	3.95	9.34	—	5.90	2.87	5.02	19.93	15.30
2000	1.36	6.97	6.75	11.72	7.78	11.52	—	10.97	4.37	8.43	20.96	16.21
2005	—	10.93	13.00	16.66	13.28	17.83	6.29	16.08	6.83	12.27	25.09	20.92
2006	—	11.41	15.23	18.43	16.91	20.11	—	16.56	7.87	12.05	26.45	22.69
2007	2.59	11.44	16.85	20.31	15.36	21.87	—	20.84	8.70	15.49	26.75	22.71
2008	—	13.05	23.50	24.62	19.04	26.09	—	23.84	10.72	14.80	29.67	25.71
2009	—	10.17	13.53	19.79	19.42	18.55	—	14.34	8.05	11.35	22.55	19.18
2010	—	9.65	17.43	21.07	20.58	21.83	—	18.10	9.50	11.29	24.92	20.90
2011	—	9.19	23.64	24.55	25.42	27.68	—	23.90	11.42	12.23	24.75	21.15
2012	—	8.32	24.35	18.62	26.61	28.14	—	23.71	12.71	11.22	22.72	19.45
2013	—	8.44	23.64	18.20	26.12	27.30	—	22.55	12.45	9.97	26.27	21.62
2014	—	8.78	21.53	19.29	25.33	26.03	—	21.26	12.14	10.22	26.67	21.68
2015	—	7.82	12.87	11.50	16.65	18.27	—	15.43	8.37	9.37	25.40	20.37
2016	—	7.75	11.05	11.47	13.37	16.39	—	13.55	7.15	9.07	25.19	20.17
2017	—	8.81	13.36	15.04	16.76	18.60	—	15.97	8.00	10.50	26.23	21.32
2018	—	8.53	16.65	16.42	24.15	20.51	—	R 18.46	8.85	10.47	25.94	20.61
2019	—	8.26	15.47	12.69	22.49	19.07	—	16.73	8.51	10.02	26.11	20.66
2020	—	8.22	10.28	11.89	14.61	15.59	—	R 12.84	7.04	9.33	25.94	20.24
2021	—	9.68	16.37	19.00	23.07	22.40	—	19.56	8.45	11.81	29.99	23.52
2022	—	R 12.76	27.88	20.15	36.47	29.15	—	27.33	13.07	R 16.04	34.97	28.50
2023	—	10.80	21.92	15.89	33.53	25.75	—	23.09	11.95	13.49	30.63	25.07
	Expenditures in million dollars											
1970	—	26.6	4.3	3.6	1.5	5.7	1.6	16.7	(s)	43.3	145.7	189.1
1975	—	40.5	18.2	6.3	5.3	11.0	20.2	60.9	0.1	101.4	220.0	321.5
1980	0.1	107.7	14.8	7.3	17.2	8.7	300.8	348.8	0.1	456.7	527.7	984.5
1985	—	159.7	94.5	6.2	2.5	11.6	14.9	129.7	0.3	289.7	1,142.6	1,432.3
1990	—	131.0	23.6	7.5	0.8	15.8	0.7	48.3	0.8	180.2	1,159.9	1,340.1
1995	0.2	122.6	6.1	6.7	0.1	2.0	—	15.0	1.2	139.0	1,225.2	1,364.2
2000	—	190.3	13.2	33.4	0.4	129.8	—	176.8	1.1	368.3	1,502.8	1,871.1
2005	—	286.2	26.8	20.9	2.8	97.8	2.1	150.5	0.6	437.4	1,856.7	2,294.0
2006	—	263.3	30.6	17.8	2.8	4.5	—	55.7	0.7	319.7	1,983.7	2,303.4
2007	(s)	282.3	59.6	17.3	0.6	314.9	—	392.3	0.8	675.4	2,088.8	2,764.2
2008	—	309.2	79.2	24.4	0.5	5.7	—	109.8	1.0	420.0	2,322.2	2,742.3
2009	—	247.6	114.5	21.0	0.2	4.1	—	139.8	1.0	388.5	1,792.9	2,181.4
2010	—	266.8	96.3	20.2	0.2	4.8	—	121.6	1.2	389.6	2,057.6	2,447.3
2011	—	242.7	135.0	23.6	0.1	6.0	—	164.8	1.4	408.8	2,050.4	2,459.2
2012	—	221.9	124.4	15.5	0.2	6.1	—	146.2	1.4	369.5	1,879.9	2,249.4
2013	—	248.0	R 57.8	15.7	0.2	6.1	—	R 79.8	1.6	R 329.4	2,174.0	R 2,503.4
2014	—	281.8	R 63.9	18.3	0.5	5.5	—	R 88.2	R 1.5	371.5	2,229.2	R 2,600.8
2015	—	242.5	R 40.6	9.0	0.1	72.0	—	R 121.8	R 0.3	R 364.6	2,165.9	R 2,530.5
2016	—	229.1	R 41.1	11.6	0.1	65.6	—	R 118.3	R 0.2	R 347.7	2,139.4	R 2,487.1
2017	—	254.6	R 48.2	20.0	0.1	75.4	—	R 143.7	0.2	R 398.5	2,192.5	R 2,591.0
2018	—	303.5	R 56.8	18.2	0.1	84.6	—	R 159.7	0.3	R 463.5	2,184.9	R 2,648.4
2019	—	277.6	R 50.1	17.8	0.1	79.3	—	R 147.2	R 0.2	R 425.0	2,163.6	R 2,588.6
2020	—	249.4	R 40.1	18.0	(s)	64.9	—	R 123.0	0.2	R 372.6	1,982.6	R 2,355.2
2021	—	320.9	57.1	26.7	0.1	94.1	—	R 178.1	0.3	R 499.3	2,297.9	R 2,797.2
2022	—	R 412.4	R 100.9	28.0	0.2	127.7	—	256.7	0.5	R 669.6	2,809.1	R 3,478.8
2023	—	327.7	65.4	18.2	0.3	112.7	—	196.6	0.3	524.6	2,481.4	3,006.0

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[g] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[j] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: Expenditure totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2023, Louisiana

Year	Primary energy												Electricity [i]	Total energy [f,g,h]
	Coal			Natural gas [a]	Petroleum						Biomass	Total [f,g,h]		
	Coking coal	Steam coal	Total		Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e,f]			
	Prices in dollars per million Btu													
1970	—	—	—	0.23	0.51	1.09	2.86	0.49	0.92	0.96	1.69	0.47	2.49	0.52
1975	—	—	—	0.74	1.81	2.57	4.49	1.72	2.72	2.58	1.69	1.42	3.99	1.50
1980	—	1.24	1.24	1.24	4.89	5.44	9.89	3.68	7.07	6.37	1.64	3.63	9.02	3.82
1985	—	1.46	1.46	2.92	6.09	5.57	9.36	4.12	7.06	6.24	1.64	4.50	14.93	5.09
1990	—	1.56	1.56	1.92	5.78	8.49	9.47	2.62	6.08	6.65	0.94	3.82	12.27	4.25
1995	—	1.73	1.73	1.76	4.39	5.15	9.34	2.35	4.80	4.89	1.18	3.03	11.64	3.48
2000	—	1.36	1.36	3.79	7.02	7.77	11.52	3.67	7.53	7.57	1.43	5.55	14.67	6.02
2005	—	1.82	1.82	8.72	13.47	12.35	17.83	6.29	13.48	13.16	2.79	10.61	19.67	11.04
2006	—	2.07	2.07	7.15	15.70	15.03	20.11	7.94	16.18	15.79	2.70	11.45	20.14	11.85
2007	—	2.59	2.59	6.85	17.10	16.93	21.87	9.05	18.28	17.99	2.57	12.63	19.85	12.95
2008	—	2.97	2.97	9.00	23.86	21.47	26.09	12.62	25.52	24.07	2.87	17.88	23.27	18.10
2009	—	3.59	3.59	4.19	13.84	13.17	18.55	9.35	16.14	14.72	2.66	10.40	15.40	10.61
2010	—	3.07	3.07	4.57	17.72	15.95	21.83	11.30	R 20.63	R 18.67	2.70	R 12.22	17.12	R 12.43
2011	—	4.71	4.71	4.17	23.73	19.71	27.68	14.15	R 27.21	R 23.83	2.79	R 14.57	16.68	R 14.67
2012	—	5.32	5.32	2.92	24.45	13.60	28.14	15.17	R 26.82	R 20.34	2.63	R 11.46	13.95	R 11.58
2013	—	5.31	5.31	3.79	23.95	12.91	27.30	15.51	R 26.34	R 19.20	2.61	R 11.20	17.35	R 11.45
2014	—	5.20	5.20	4.92	22.63	12.95	26.03	14.92	R 24.59	R 18.70	3.21	R 11.21	17.72	R 11.52
2015	—	5.50	5.50	3.25	13.63	7.54	18.27	8.67	R 13.53	R 10.28	3.09	R 6.51	15.86	R 6.95
2016	—	5.35	5.35	3.04	12.11	7.36	16.39	5.41	R 11.36	R 9.22	3.00	R 5.69	14.88	R 6.12
2017	—	4.66	4.66	3.57	14.77	9.41	18.60	8.14	13.96	11.60	2.92	7.13	16.06	7.53
2018	—	5.40	5.40	3.45	18.11	11.23	20.51	10.59	17.68	14.19	2.65	8.04	15.69	8.38
2019	—	5.42	5.42	3.30	16.66	7.75	19.07	11.16	R 16.65	R 11.53	2.63	6.86	15.33	7.26
2020	—	5.69	5.69	2.53	11.58	6.23	15.59	8.26	R 11.48	R 8.02	2.16	R 5.09	14.30	5.48
2021	—	6.13	6.13	3.97	17.82	11.03	22.40	12.35	R 18.75	R 13.65	2.72	R 8.67	18.21	9.10
2022	—	6.93	6.93	R 7.05	27.92	11.36	29.15	21.41	R 26.53	R 15.95	2.96	R 10.66	22.10	R 11.24
2023	—	8.59	8.59	3.80	22.52	7.66	25.75	20.15	21.93	11.85	3.15	7.18	17.23	7.69
	Expenditures in million dollars													
1970	—	—	—	210.8	12.4	173.5	4.5	2.5	208.2	401.1	11.2	623.1	80.5	703.5
1975	—	—	—	624.6	49.0	441.2	4.1	33.6	759.3	1,287.2	11.2	1,922.9	166.6	2,089.6
1980	—	2.9	2.9	1,150.2	210.9	969.6	3.2	208.8	3,856.5	5,249.1	17.1	6,419.3	578.8	6,998.1
1985	—	15.9	15.9	1,833.1	239.2	1,311.9	23.9	161.8	2,073.3	3,810.0	20.0	5,679.1	1,126.7	6,805.8
1990	—	24.8	24.8	1,544.4	307.5	1,357.4	16.8	13.3	2,435.1	4,130.1	63.6	5,762.9	991.9	6,754.8
1995	—	13.3	13.3	1,551.2	289.5	1,177.1	37.5	4.2	1,991.7	3,500.0	129.1	5,193.6	1,086.3	6,279.9
2000	—	1.9	1.9	3,082.6	468.5	2,874.4	36.4	31.5	3,739.9	7,150.7	159.3	10,394.5	1,487.2	11,881.7
2005	—	2.9	2.9	5,909.2	475.5	2,034.4	130.6	109.7	8,909.1	11,659.3	346.5	17,917.9	1,662.8	19,580.7
2006	—	3.7	3.7	5,144.8	460.9	2,964.8	145.8	159.8	11,495.9	15,227.2	328.4	20,704.0	1,713.4	22,417.4
2007	—	4.5	4.5	5,079.1	501.5	3,193.8	184.8	33.5	14,604.4	18,518.0	307.0	23,908.6	1,702.3	25,610.9
2008	—	5.2	5.2	6,271.0	776.8	8,014.9	89.9	162.7	19,609.6	28,654.0	218.9	35,149.0	1,926.0	37,075.0
2009	—	1.2	1.2	2,746.9	697.9	5,839.6	62.3	95.1	8,740.9	15,435.8	156.7	18,340.6	1,192.3	19,532.9
2010	—	1.6	1.6	3,418.3	1,156.6	5,368.7	117.5	218.9	R 11,668.1	R 18,529.8	193.7	R 22,143.3	1,441.8	R 23,585.1
2011	—	6.1	6.1	3,163.9	1,633.2	6,882.5	159.6	394.8	R 13,597.1	R 22,667.2	217.5	R 26,054.8	1,504.4	R 27,559.2
2012	—	12.2	12.2	2,375.6	1,248.3	5,536.1	154.3	130.4	R 10,505.0	R 17,574.1	210.5	R 20,172.4	1,280.2	R 21,452.5
2013	—	12.2	12.2	3,004.7	978.9	5,606.0	160.4	40.8	R 9,218.9	R 16,005.0	240.8	R 19,262.6	1,279.2	R 20,541.9
2014	—	15.2	15.2	4,071.1	947.8	5,258.8	102.5	30.2	R 8,982.7	R 15,322.1	366.0	R 19,774.4	1,542.1	R 21,316.5
2015	—	20.5	20.5	2,740.7	396.2	3,362.9	68.5	17.9	R 4,587.7	R 8,433.2	309.2	R 11,503.6	1,377.3	R 12,880.9
2016	—	21.8	21.8	2,851.3	326.7	3,140.6	63.1	27.1	R 3,741.5	R 7,299.1	347.9	R 10,520.1	1,338.5	R 11,858.6
2017	—	17.6	17.6	3,498.8	401.4	4,318.0	72.3	30.5	5,350.3	10,172.5	290.8	13,979.7	1,498.0	15,477.7
2018	—	21.4	21.4	3,567.8	571.9	5,231.3	80.9	40.2	6,308.2	12,232.4	266.9	16,088.5	1,481.3	17,569.8
2019	—	17.4	17.4	3,391.7	416.7	3,851.0	74.7	33.9	R 5,609.3	R 9,985.6	236.4	R 13,631.1	1,491.2	R 15,122.2
2020	—	19.0	19.0	2,593.3	143.4	4,054.4	61.8	12.4	R 3,601.6	R 7,873.7	191.2	R 10,677.2	1,353.7	R 12,030.9
2021	—	26.8	26.8	3,836.1	495.0	7,400.5	88.4	45.3	R 5,896.1	R 13,925.3	238.5	R 18,026.6	1,803.1	R 19,829.7
2022	—	34.5	34.5	R 7,482.0	782.9	6,753.1	121.4	80.5	R 5,813.3	R 13,551.2	R 252.8	R 21,320.5	2,359.0	R 23,679.5
2023	—	35.8	35.8	4,023.5	613.9	4,558.0	105.9	62.9	4,615.5	9,956.2	269.2	14,284.7	1,810.7	16,095.4

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[i] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET6. Transportation sector energy price and expenditure estimates, selected years, 1970-2023, Louisiana

	Primary energy												
			Petroleum										
	Coal	Natural gas[a]	Aviation gasoline	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Lubricants	Motor gasoline [e]	Residual fuel oil	Total	Total [f]	Electricity [g]	Total energy [f]
Year	Prices in dollars per million Btu												
1970	—	—	2.17	1.09	1.04	0.72	5.08	2.86	0.44	1.97	1.97	5.07	1.97
1975	—	—	3.45	2.54	2.36	2.01	7.48	4.49	1.54	3.27	3.27	6.99	3.28
1980	—	—	9.02	6.84	5.00	6.34	14.36	9.89	3.05	6.87	6.87	12.08	6.87
1985	—	—	9.99	6.38	6.95	5.70	18.18	9.36	3.40	7.19	7.19	20.24	7.19
1990	—	3.11	9.32	8.48	10.04	5.79	20.61	9.47	2.07	6.92	6.92	19.49	6.92
1995	—	2.89	8.36	7.87	11.60	3.75	21.75	9.34	1.94	6.29	6.29	19.23	6.29
2000	—	5.40	10.87	10.28	14.36	6.27	23.20	11.52	3.96	8.42	8.42	19.20	8.42
2005	—	13.24	18.56	17.25	20.60	12.59	35.22	17.83	7.02	15.49	15.49	22.38	15.49
2006	—	12.13	22.31	19.06	22.00	14.32	43.88	20.11	9.63	17.69	17.69	41.32	17.69
2007	—	11.60	23.70	20.39	24.85	15.47	47.16	21.87	8.68	18.55	18.55	40.76	18.55
2008	—	12.57	27.23	27.66	29.43	22.50	55.12	26.09	8.34	23.37	23.36	34.83	23.37
2009	—	8.34	20.32	17.55	23.39	12.37	56.07	18.55	9.45	16.27	16.26	29.57	16.27
2010	—	10.88	25.19	21.01	26.73	16.15	58.80	21.83	7.93	19.44	19.44	27.73	19.44
2011	—	10.39	31.64	27.02	30.41	22.33	69.54	27.68	7.43	24.60	24.60	24.42	24.60
2012	—	10.38	33.04	27.76	23.26	22.79	72.11	28.14	8.27	24.97	24.97	25.57	24.97
2013	—	R 10.22	32.71	27.48	22.76	22.01	69.42	27.30	7.95	24.79	24.79	27.70	24.79
2014	—	R 10.26	33.16	26.52	24.07	20.19	69.44	26.03	7.68	24.68	24.68	27.18	24.68
2015	—	R 9.93	24.86	18.46	14.67	11.63	67.28	18.27	4.13	17.69	17.69	24.25	17.69
2016	—	R 9.82	21.62	15.62	14.38	9.30	65.78	16.39	3.00	15.25	15.25	26.46	15.25
2017	—	R 9.95	24.13	17.82	18.99	11.64	67.25	18.60	4.24	16.17	16.16	29.11	16.16
2018	—	R 10.25	27.04	21.23	20.78	15.19	72.37	20.51	5.30	20.03	20.02	26.98	R 20.03
2019	—	R 10.41	25.57	20.22	15.99	14.10	74.92	19.07	5.00	19.07	R 19.06	26.61	R 19.06
2020	—	R 10.35	22.34	16.60	14.09	9.64	75.34	15.59	3.64	15.54	R 15.52	25.69	R 15.52
2021	—	R 10.61	28.86	21.78	23.58	14.26	81.25	22.40	5.50	20.88	20.87	31.56	20.87
2022	—	R 12.42	36.02	33.55	24.39	25.74	97.37	29.15	6.91	R 29.04	R 29.03	36.48	R 29.03
2023	—	13.78	32.62	28.05	18.29	20.52	105.48	25.75	5.77	25.24	25.23	32.25	25.23
	Expenditures in million dollars												
1970	—	—	4.9	42.1	1.4	23.4	16.6	513.2	26.8	628.3	628.3	0.1	628.3
1975	—	—	5.1	200.6	2.8	67.9	23.9	1,003.8	163.2	1,467.4	1,467.4	0.1	1,467.5
1980	—	—	11.6	496.3	3.0	306.8	62.8	2,437.3	596.8	3,914.6	3,914.6	0.1	3,914.7
1985	—	—	8.6	637.6	2.9	410.5	72.3	2,389.3	368.9	3,890.3	3,897.7	0.2	3,897.9
1990	—	0.1	5.1	988.5	2.8	845.1	92.2	2,154.1	283.5	4,371.4	4,374.5	0.2	4,374.7
1995	—	0.1	3.7	1,141.0	2.7	613.0	92.9	2,256.4	276.6	4,386.4	4,386.5	0.2	4,386.7
2000	—	0.5	4.6	1,590.8	0.4	1,257.8	105.8	3,099.5	675.6	6,734.6	6,735.1	0.2	6,735.3
2005	—	0.5	5.6	2,757.7	5.5	2,017.4	135.5	5,033.8	461.8	10,417.3	10,417.8	0.9	10,418.7
2006	—	0.4	6.8	3,388.4	4.3	1,888.7	164.5	6,471.1	810.5	12,734.2	12,734.6	0.4	12,735.0
2007	—	0.3	3.0	3,173.4	3.8	1,965.8	182.6	6,006.4	806.9	12,142.0	12,142.3	0.4	12,142.7
2008	—	0.2	9.2	4,182.6	8.7	2,484.9	198.1	6,769.2	765.6	14,418.1	14,418.4	0.6	14,419.0
2009	—	0.1	6.3	R 2,717.8	4.8	1,127.4	181.2	5,135.2	842.4	R 10,015.1	R 10,015.2	0.9	R 10,016.1
2010	—	0.1	11.2	R 3,728.3	0.9	368.5	232.2	5,949.8	697.9	R 10,988.9	R 10,989.0	1.0	R 10,990.0
2011	—	0.1	15.4	R 5,249.7	1.1	512.1	278.3	7,473.5	620.0	R 14,149.9	R 14,150.1	0.9	R 14,151.0
2012	—	0.1	16.6	R 4,156.6	0.7	534.3	240.2	7,374.6	672.3	R 12,995.4	R 12,995.6	0.9	R 12,996.5
2013	—	R 0.5	14.7	R 4,133.1	1.0	456.9	249.3	7,398.9	562.2	R 12,816.1	R 12,816.6	1.1	R 12,817.7
2014	—	R 0.6	11.0	R 3,887.6	1.1	453.3	238.7	6,985.0	310.4	R 11,887.1	R 11,887.7	1.1	R 11,888.7
2015	—	R 1.7	8.2	R 3,225.4	0.9	263.2	253.6	5,036.0	105.2	R 8,892.4	8,894.1	1.0	8,895.1
2016	—	R 1.9	6.8	R 2,510.2	0.9	200.1	212.6	4,359.3	97.9	R 7,387.9	R 7,389.8	1.1	R 7,390.9
2017	—	R 3.9	7.9	R 2,707.1	5.6	256.4	210.0	4,763.1	333.1	R 8,283.2	R 8,287.1	1.3	R 8,288.4
2018	—	R 4.5	9.2	R 3,060.0	4.7	R 337.3	187.1	5,214.3	116.5	R 8,929.2	R 8,933.6	1.2	R 8,934.8
2019	—	R 4.2	8.4	R 3,136.8	3.7	R 336.2	R 205.5	4,917.6	76.4	R 8,684.5	R 8,688.7	1.1	R 8,689.8
2020	—	R 13.0	6.3	R 2,586.5	4.4	135.3	R 211.7	3,534.6	81.0	R 6,559.8	R 6,572.8	0.9	R 6,573.8
2021	—	R 3.9	8.3	R 3,414.4	4.4	228.5	R 223.2	5,697.8	211.3	R 9,788.1	R 9,792.0	1.0	R 9,793.0
2022	—	R 4.4	10.7	R 5,360.8	6.5	R 527.6	R 269.9	7,205.7	271.8	R 13,653.1	R 13,657.4	1.3	R 13,658.7
2023	—	4.0	9.2	4,374.7	5.2	425.0	218.2	6,470.4	188.5	11,691.2	11,695.1	1.2	11,696.3

[a] Transportation use of natural gas as vehicle fuel only.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET7. Electric power sector price and expenditure estimates, selected years, 1970-2023, Louisiana

Year	Coal	Natural gas [a]	Petroleum: Distillate fuel oil	Petroleum: Petroleum coke	Petroleum: Residual fuel oil	Petroleum: Total	Nuclear fuel	Biomass: Wood and waste [b]	Electricity imports [c]	Total energy [d]
	Prices in dollars per million Btu									
1970	—	0.21	0.60	—	0.55	0.57	—	—	—	0.21
1975	—	0.64	1.92	—	1.76	1.76	—	—	—	0.73
1980	—	2.01	4.37	—	3.58	3.68	—	—	—	2.19
1985	2.19	2.73	5.84	—	3.51	5.08	0.86	—	—	2.46
1990	1.70	1.66	5.01	0.82	2.47	2.99	0.88	0.46	—	1.49
1995	1.55	1.81	3.73	0.76	1.90	0.84	0.64	0.70	—	1.44
2000	1.32	4.40	5.21	0.42	3.99	1.52	0.62	0.67	—	2.46
2005	1.58	8.88	11.02	0.72	6.82	3.94	0.46	2.28	—	4.32
2006	1.77	7.38	10.27	0.90	9.30	1.94	0.49	2.32	—	3.16
2007	2.13	7.29	14.30	1.41	8.14	2.43	0.55	2.42	—	3.48
2008	2.36	9.70	15.72	2.39	8.33	3.38	0.50	2.66	—	4.56
2009	2.35	4.22	12.18	1.32	9.33	1.78	0.60	2.20	—	2.52
2010	2.40	4.68	14.02	2.65	8.77	2.93	0.75	2.40	—	2.83
2011	2.66	4.35	21.67	3.08	8.96	3.21	0.78	2.44	—	2.92
2012	2.87	2.94	22.37	1.99	10.16	2.20	0.80	2.21	—	2.43
2013	2.90	3.87	21.99	1.95	9.49	2.12	0.91	2.26	—	2.73
2014	2.95	4.62	19.94	1.96	8.72	2.13	0.84	2.73	—	2.99
2015	3.18	2.91	12.53	1.80	4.53	1.96	0.80	2.62	—	2.45
2016	2.92	2.68	9.70	1.58	3.88	1.61	0.58	2.54	—	2.12
2017	2.95	3.27	13.78	2.20	—	2.26	0.74	2.40	—	2.48
2018	3.12	3.31	15.18	2.65	—	2.71	0.73	2.22	—	2.54
2019	3.11	2.70	14.61	1.79	—	1.89	0.64	2.33	—	2.23
2020	4.79	2.25	9.15	1.59	—	1.61	0.55	1.80	—	1.91
2021	5.12	5.28	14.76	3.43	—	3.47	0.54	2.39	—	3.80
2022	2.66	7.04	25.85	5.25	—	5.36	0.55	2.69	—	4.71
2023	2.97	2.84	19.58	4.49	—	4.63	0.57	2.93	—	2.39
	Expenditures in million dollars									
1970	—	72.3	0.2	—	0.3	0.5	—	—	—	72.9
1975	—	239.5	1.0	—	62.9	63.9	—	—	—	303.4
1980	—	889.7	29.9	—	159.5	189.4	—	—	—	1,079.1
1985	324.2	815.3	4.5	—	1.3	5.8	22.5	—	—	1,167.8
1990	327.0	495.4	4.7	0.6	1.2	6.4	132.4	0.6	—	961.8
1995	323.8	611.2	1.7	13.9	0.2	15.7	105.1	0.9	—	1,056.7
2000	332.4	1,386.1	10.3	7.0	17.8	35.1	102.0	0.7	—	1,856.3
2005	399.2	2,605.1	9.2	13.6	130.3	153.1	75.4	2.6	—	3,235.4
2006	465.1	1,500.8	2.9	17.1	21.9	41.9	84.7	2.4	—	2,094.9
2007	529.4	1,689.9	5.3	29.2	24.0	58.5	98.7	3.0	—	2,379.4
2008	614.7	2,367.8	6.3	46.6	24.2	77.2	80.4	3.1	—	3,143.2
2009	592.6	967.8	5.4	21.4	3.5	30.3	105.1	2.5	—	1,698.3
2010	621.1	1,295.8	4.5	82.2	7.7	94.5	147.1	3.0	—	2,161.5
2011	714.3	1,303.5	6.5	146.6	1.7	154.8	135.4	2.9	—	2,310.9
2012	679.6	964.7	7.0	61.2	0.2	68.4	131.5	2.2	—	1,846.4
2013	654.7	1,058.0	8.7	94.1	0.3	103.1	160.6	2.7	—	1,979.1
2014	611.4	1,260.1	9.3	100.2	0.1	109.6	152.6	3.8	—	2,137.4
2015	541.7	1,025.7	8.2	76.6	0.3	85.0	128.7	3.8	—	1,784.9
2016	398.9	912.3	1.7	80.2	(s)	81.9	104.7	3.4	—	1,501.1
2017	409.2	937.8	3.5	107.9	—	111.5	119.3	3.5	—	1,581.3
2018	417.4	1,023.7	3.6	123.0	—	126.6	130.5	2.9	—	1,701.1
2019	272.2	952.3	4.1	63.9	—	68.0	93.8	3.2	—	1,389.5
2020	217.3	821.6	0.7	60.1	—	60.9	98.1	1.8	—	1,199.5
2021	468.5	1,719.9	2.3	147.6	—	149.9	96.3	3.3	—	2,437.8
2022	244.2	2,629.6	4.9	180.8	—	185.7	92.5	3.6	—	3,155.6
2023	160.4	1,100.8	2.0	51.6	—	53.6	73.4	4.1	—	1,392.3

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[c] Electricity imported from Canada and Mexico.
[d] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET1. Primary energy, electricity, and total energy price and expenditure estimates, selected years, 1970-2023, Maine

Year	Primary energy														Electric power sector [i,k,l]	Electricity [m]	Total energy [h,i,j]
	Coal			Natural gas [a]	Petroleum							Nuclear fuel	Biomass				
	Coking coal	Steam coal	Total		Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total		Wood and waste [g,h]	Total [h,i,j,k]			
	Prices in dollars per million Btu																
1970	—	1.06	1.06	1.48	1.37	1.95	0.75	3.02	0.38	1.54	1.45	—	1.13	1.45	0.44	5.92	1.93
1975	—	2.60	2.60	2.03	2.78	3.82	2.09	4.56	1.79	3.05	3.03	0.32	1.29	2.53	0.94	9.70	3.70
1980	—	1.77	1.77	5.03	6.83	7.19	6.51	9.69	4.10	7.34	6.99	0.58	1.72	5.49	2.61	16.30	7.90
1985	—	2.49	2.49	7.41	7.94	11.01	6.10	9.35	4.37	6.90	7.39	0.62	1.67	5.66	1.95	20.16	8.85
1990	—	2.35	2.35	5.89	7.78	12.40	5.92	9.74	2.86	7.01	7.00	0.46	0.88	4.90	1.59	22.42	8.09
1995	—	2.06	2.06	5.71	6.39	11.30	4.12	10.05	2.72	5.77	6.66	2.14	1.28	4.99	3.15	27.80	7.66
2000	—	1.87	1.87	4.31	9.75	14.08	6.91	12.41	3.85	10.04	9.31	—	1.29	6.89	4.86	28.40	9.70
2005	—	3.04	3.04	10.05	15.46	19.77	12.74	18.49	6.83	14.97	15.10	—	2.68	11.28	6.70	30.99	14.89
2006	—	3.09	3.09	9.60	17.92	21.97	14.92	20.99	8.37	20.31	18.02	—	2.66	12.80	6.30	34.59	17.13
2007	—	3.16	3.16	10.08	19.62	24.28	16.47	23.20	9.30	21.98	19.98	—	2.67	13.82	6.94	42.77	18.83
2008	—	3.57	3.57	11.92	25.96	28.47	23.06	27.23	12.23	32.83	25.29	—	3.05	15.80	7.29	40.44	20.35
2009	—	3.86	3.86	7.10	18.28	24.00	12.87	20.28	8.15	20.24	18.19	—	2.95	12.49	4.63	38.47	17.48
2010	—	3.82	3.82	7.88	20.71	27.02	16.41	23.53	12.33	R 22.36	R 21.56	—	3.14	13.69	5.23	37.64	18.72
2011	—	4.20	4.20	7.84	26.63	29.37	22.95	30.15	16.70	R 26.28	R 27.48	—	3.37	R 16.90	5.15	36.86	21.87
2012	—	4.69	4.69	7.62	28.64	26.05	23.55	31.13	18.22	R 25.40	R 28.85	—	3.21	R 17.06	4.13	34.62	R 21.89
2013	—	4.87	4.87	9.09	28.15	24.70	22.59	30.38	17.97	R 27.26	R 28.22	—	3.36	R 17.40	6.31	34.75	R 21.72
2014	—	4.89	4.89	10.20	27.55	27.68	21.02	29.19	17.16	R 27.54	R 27.81	—	3.85	R 17.98	6.97	37.08	R 22.73
2015	—	4.10	4.10	8.53	R 19.09	19.87	12.79	20.64	9.07	R 21.68	R 19.47	—	R 3.59	R 13.31	5.39	37.46	R 17.97
2016	—	4.29	4.29	6.42	16.01	18.66	10.41	18.57	7.07	R 19.58	R 17.33	—	R 3.24	R 11.92	4.38	37.51	R 16.82
2017	—	4.48	4.48	7.59	18.21	22.32	12.30	20.86	9.94	21.37	19.51	—	R 3.26	R 13.44	4.66	38.16	R 18.28
2018	—	4.29	4.29	8.85	21.05	25.42	16.27	23.28	12.41	25.23	22.26	—	R 3.30	R 14.92	5.30	39.38	R 20.20
2019	—	3.94	3.94	8.87	20.09	22.68	15.21	21.81	11.86	R 28.09	21.14	—	R 3.40	R 14.35	4.95	41.14	R 19.29
2020	—	3.65	3.65	7.73	16.48	21.04	10.58	18.37	9.30	R 19.89	17.71	—	R 2.37	R 12.34	3.75	39.70	R 17.53
2021	—	3.99	3.99	8.66	20.31	27.00	15.33	24.97	13.65	R 22.39	R 22.95	—	R 3.06	R 15.90	5.39	40.90	R 21.37
2022	—	4.55	4.55	11.81	R 33.50	29.36	26.99	33.63	22.62	R 33.52	32.77	—	R 3.96	R 22.81	8.84	51.12	R 29.77
2023	—	5.40	5.40	9.94	28.88	25.67	21.67	29.60	19.82	30.03	28.68	—	4.03	20.80	7.70	61.08	28.75
	Expenditures in million dollars																
1970	—	2.3	2.3	1.9	94.2	4.7	9.4	174.9	27.5	25.1	335.8	—	6.4	350.1	-14.2	102.3	438.1
1975	—	3.4	3.4	4.0	186.5	13.8	22.7	303.1	111.7	36.2	673.9	16.1	8.4	726.2	-68.5	216.1	873.8
1980	—	5.3	5.3	11.2	422.8	23.2	66.7	598.7	220.7	53.9	1,386.1	27.9	30.6	1,550.7	-219.5	455.3	1,786.6
1985	—	12.7	12.7	19.3	479.4	27.4	54.4	616.1	217.2	149.8	1,544.2	35.1	31.7	1,676.7	-160.7	675.7	2,191.7
1990	—	24.5	24.5	26.9	604.5	64.5	82.9	722.7	191.2	66.8	1,732.8	23.9	64.7	1,939.6	-170.9	881.9	2,650.6
1995	—	22.7	22.7	31.6	548.6	66.1	19.6	751.3	161.0	77.7	1,624.3	4.4	135.4	1,916.4	-163.4	1,096.6	2,849.6
2000	—	18.6	18.6	203.2	868.7	70.9	35.6	1,054.0	229.7	154.6	2,413.5	—	137.4	3,015.3	-458.5	1,178.5	3,735.3
2005	—	21.4	21.4	645.5	1,526.2	174.6	103.0	1,662.5	297.7	226.6	3,990.6	—	285.0	5,085.7	-773.5	1,307.1	5,619.3
2006	—	20.5	20.5	643.8	1,622.9	174.4	151.4	1,849.9	238.9	212.4	4,250.0	—	265.3	5,402.6	-637.3	1,449.7	6,214.9
2007	—	20.8	20.8	669.6	1,802.3	258.6	164.9	2,000.7	238.2	216.5	4,681.1	—	285.8	5,922.8	-689.1	1,730.8	6,964.6
2008	—	21.1	21.1	875.8	2,153.5	299.5	183.2	2,200.1	242.0	133.8	5,212.0	—	385.6	6,603.2	-614.8	1,610.6	7,599.0
2009	—	6.4	6.4	516.0	1,404.4	281.8	89.8	1,645.9	183.4	182.6	3,787.8	—	240.2	R 4,657.9	-377.9	1,480.9	5,760.9
2010	—	8.7	8.7	624.0	1,497.8	293.8	79.3	1,924.6	190.6	R 216.0	R 4,202.2	—	310.6	R 5,274.4	-462.3	1,480.8	R 6,292.9
2011	—	6.5	6.5	569.2	R 2,016.3	328.8	106.8	2,437.8	220.0	R 219.4	R 5,329.1	—	328.2	R 6,360.5	-397.1	1,435.8	R 7,399.3
2012	—	6.1	6.1	530.9	R 1,914.2	278.1	103.1	2,432.4	145.6	R 197.1	R 5,070.5	—	308.6	R 6,002.6	-278.6	1,365.7	R 7,089.6
2013	—	8.1	8.1	590.9	R 1,843.1	321.5	96.0	2,707.2	194.9	R 179.6	R 5,342.3	—	332.2	R 6,473.4	-443.0	1,405.7	R 7,436.1
2014	—	10.5	10.5	623.1	R 1,844.1	375.8	82.1	2,719.3	132.2	R 205.9	R 5,359.5	—	R 359.0	R 6,565.6	-508.7	1,518.4	R 7,575.2
2015	—	10.6	10.6	453.7	R 1,420.4	275.1	50.7	1,947.3	69.2	R 176.9	R 3,939.6	—	R 339.9	R 4,923.6	-398.5	1,519.4	R 6,044.6
2016	—	9.4	9.4	345.8	R 1,131.1	251.3	31.8	1,786.0	26.9	R 136.2	R 3,363.3	—	R 254.9	R 4,122.0	-311.6	1,465.2	R 5,275.6
2017	—	9.7	9.7	337.0	R 1,514.9	315.1	37.2	1,646.8	29.9	138.9	R 3,682.8	—	R 257.2	4,426.5	-284.7	1,459.9	R 5,601.7
2018	—	9.1	9.1	420.5	R 1,510.0	384.9	R 48.9	1,822.8	48.9	139.8	R 3,955.1	—	R 264.4	R 4,808.5	-317.7	1,659.9	R 6,150.7
2019	—	8.5	8.5	399.9	R 1,428.2	343.8	R 42.5	1,696.3	21.6	R 131.8	R 3,664.2	—	R 259.8	4,459.7	-228.2	1,647.0	5,878.5
2020	—	6.1	6.1	356.2	R 1,108.9	286.3	R 20.9	1,301.1	14.1	R 166.8	R 2,898.0	—	R 145.6	R 3,490.5	-165.9	1,536.8	R 4,861.4
2021	—	6.3	6.3	479.0	R 1,291.9	380.9	R 43.6	1,965.2	31.1	R 194.5	R 3,907.2	—	R 180.2	R 4,671.6	-280.8	1,616.7	R 6,007.5
2022	—	5.8	5.8	715.4	R 2,263.7	414.0	R 104.5	2,553.7	107.1	R 216.2	R 5,659.1	—	R 211.5	R 6,738.6	-502.4	2,071.6	R 8,307.8
2023	—	7.0	7.0	583.6	1,975.7	388.9	114.2	2,513.4	45.8	233.3	5,271.3	—	186.4	6,190.4	-408.8	2,362.3	8,144.0

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[l] Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
[m] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET2. Total end-use energy price and expenditure estimates, selected years, 1970-2023, Maine

Year	Primary energy											Electricity [k]	Total energy [h,i,j]
			Petroleum							Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g,h]	Total [h,i,j]		
	Prices in dollars per million Btu												
1970	1.06	1.48	1.38	1.95	0.75	3.02	0.40	1.54	1.62	1.13	1.60	5.92	1.93
1975	2.60	2.03	2.78	3.82	2.09	4.56	1.79	3.05	3.14	1.29	3.07	9.70	3.70
1980	1.77	5.03	6.83	7.19	6.51	9.69	3.90	7.34	7.33	1.72	6.72	16.30	7.90
1985	2.49	7.41	7.94	11.01	6.10	9.35	4.49	6.90	7.75	1.67	7.08	20.16	8.85
1990	2.66	6.05	7.79	12.40	5.92	9.74	2.90	7.01	7.42	1.05	6.14	22.42	8.09
1995	2.27	5.79	6.40	11.30	4.12	10.05	2.74	6.40	6.86	1.23	5.27	27.80	7.66
2000	2.12	4.14	9.75	14.08	6.91	12.41	4.14	10.58	9.85	1.49	7.44	28.40	9.70
2005	3.39	13.59	15.46	19.77	12.74	18.49	7.17	14.97	15.46	2.94	12.86	30.99	14.89
2006	3.60	14.04	17.92	21.97	14.92	20.99	8.39	20.31	18.07	2.90	14.85	34.59	17.13
2007	3.53	12.91	19.63	24.28	16.47	23.20	9.45	21.98	20.21	2.83	15.89	42.77	18.83
2008	4.12	14.21	25.96	28.47	23.06	27.23	12.56	32.83	25.47	3.19	17.95	40.44	20.35
2009	4.26	9.80	18.29	24.00	12.87	20.28	8.49	20.24	18.38	3.40	14.70	38.47	17.48
2010	4.42	10.99	20.71	27.02	16.41	23.53	12.41	R 22.36	R 21.68	3.49	16.21	37.64	18.72
2011	5.08	10.72	26.64	29.37	22.95	30.15	16.57	R 26.28	R 27.55	3.75	R 19.92	36.86	21.87
2012	6.52	10.61	28.64	26.05	23.55	31.13	17.87	R 25.40	R 28.91	3.60	20.12	34.62	R 21.89
2013	5.79	10.68	28.15	24.70	22.59	30.38	17.70	R 27.26	R 28.36	3.80	R 19.97	34.75	R 21.72
2014	5.90	12.66	27.56	27.68	21.02	29.19	17.09	R 27.54	R 27.98	R 4.33	R 20.72	37.08	R 22.73
2015	5.68	10.80	19.10	19.87	12.79	20.64	9.30	R 21.68	R 19.77	R 4.06	R 15.30	37.46	R 17.97
2016	5.21	8.78	R 16.01	18.66	10.41	18.57	6.70	R 19.58	R 17.40	3.64	R 13.87	37.51	R 16.82
2017	5.01	9.38	18.22	22.32	12.30	20.86	9.76	21.37	R 19.59	R 3.75	R 15.44	38.16	R 18.28
2018	5.52	10.68	21.06	25.42	16.27	23.28	12.69	25.23	22.38	R 3.85	R 17.12	39.38	R 20.20
2019	6.16	10.12	20.09	22.68	15.21	21.81	11.93	R 28.09	21.16	R 3.79	R 15.99	41.14	R 19.29
2020	5.83	9.00	16.48	21.04	10.58	18.37	9.63	R 19.89	17.74	R 2.69	R 13.93	39.70	R 17.53
2021	—	10.35	20.31	27.00	15.33	24.97	13.92	R 22.39	22.99	R 3.46	R 18.17	40.90	R 21.37
2022	—	14.06	R 33.51	29.36	26.99	33.63	23.15	R 33.52	32.96	R 4.66	R 26.14	51.12	R 29.77
2023	—	12.25	28.88	25.67	21.67	29.60	20.67	30.03	28.73	4.63	23.64	61.08	28.75
	Expenditures in million dollars												
1970	2.3	1.9	94.0	4.7	9.4	174.9	17.1	25.1	325.2	6.4	335.8	102.3	438.1
1975	3.4	4.0	185.9	13.8	22.7	303.1	80.3	36.2	641.9	8.4	657.7	216.1	873.8
1980	5.3	11.2	420.6	23.2	66.7	598.7	121.0	53.9	1,284.2	30.6	1,331.2	455.3	1,786.6
1985	12.7	19.3	478.4	27.4	54.4	616.1	126.2	149.8	1,452.3	31.7	1,516.0	675.7	2,191.7
1990	17.6	26.4	603.8	64.5	82.9	722.7	129.1	66.8	1,669.9	54.7	1,768.7	881.9	2,650.6
1995	16.0	31.4	547.8	66.1	19.6	751.3	137.1	76.8	1,598.8	106.7	1,753.0	1,096.6	2,849.6
2000	12.2	80.1	867.1	70.9	35.6	1,054.0	163.2	154.0	2,344.7	119.8	2,556.8	1,178.5	3,735.3
2005	11.2	177.1	1,524.3	174.6	103.0	1,662.5	244.1	226.6	3,935.1	188.9	4,312.2	1,307.1	5,619.3
2006	10.3	343.3	1,621.6	174.4	151.4	1,849.9	231.3	212.4	4,241.0	170.7	4,765.2	1,449.7	6,214.9
2007	10.6	394.9	1,800.0	258.6	164.9	2,000.7	200.7	216.5	4,641.3	186.9	5,233.7	1,730.8	6,964.6
2008	10.8	494.1	2,151.8	299.5	183.2	2,200.1	220.3	133.8	5,188.6	294.8	5,988.4	1,610.6	7,599.0
2009	3.4	334.8	1,403.5	281.8	89.8	1,645.9	164.7	182.6	3,768.3	173.6	R 4,280.0	1,480.9	5,760.9
2010	3.8	404.3	1,496.5	293.8	79.3	1,924.6	160.7	R 216.0	R 4,170.9	233.1	R 4,812.1	1,480.8	R 6,292.9
2011	2.9	399.1	R 2,015.5	328.8	106.8	2,437.8	193.8	R 219.4	R 5,302.1	259.4	R 5,963.4	1,435.8	R 7,399.3
2012	3.2	426.1	R 1,913.7	278.1	103.1	2,432.4	121.0	R 197.1	R 5,045.4	249.2	R 5,724.0	1,365.7	R 7,089.6
2013	4.0	466.3	R 1,842.3	321.5	96.0	2,707.2	143.8	R 179.6	R 5,290.4	269.7	R 6,030.4	1,405.7	R 7,436.1
2014	4.8	464.2	R 1,843.1	375.8	82.1	2,719.3	79.3	R 205.9	R 5,305.5	R 282.3	R 6,056.8	1,518.4	R 7,575.2
2015	4.2	375.7	R 1,416.3	275.1	50.7	1,947.3	20.3	R 176.9	R 3,886.6	R 258.7	R 4,525.2	1,519.4	R 6,044.6
2016	2.2	272.3	R 1,130.9	251.3	31.8	1,786.0	15.9	R 136.2	R 3,352.1	R 183.9	R 3,810.4	1,465.2	R 5,275.6
2017	2.3	285.5	R 1,513.6	315.1	37.2	1,646.8	13.6	138.9	R 3,665.2	R 188.8	R 4,141.8	1,459.9	R 5,601.7
2018	3.0	353.0	R 1,508.5	384.9	R 48.9	1,822.8	25.5	139.8	R 3,930.4	R 204.4	R 4,490.8	1,659.9	R 6,150.7
2019	2.8	357.8	R 1,427.4	343.8	R 42.5	1,696.3	16.9	R 131.8	R 3,658.7	R 212.3	4,231.5	1,647.0	5,878.5
2020	1.9	323.6	R 1,108.4	286.3	R 20.9	1,301.1	10.0	R 166.8	R 2,893.5	R 105.6	R 3,324.6	1,536.8	R 4,861.4
2021	—	364.6	R 1,291.4	380.9	R 43.6	1,965.2	23.2	R 194.5	R 3,898.8	R 127.3	R 4,390.8	1,616.7	R 6,007.5
2022	—	485.4	R 2,262.6	414.0	R 104.5	2,553.7	39.6	R 216.2	R 5,590.5	R 160.3	R 6,236.2	2,071.6	R 8,307.8
2023	—	388.8	1,975.1	388.9	114.2	2,513.4	29.3	233.3	5,254.3	138.6	5,781.6	2,362.3	8,144.0

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. · Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2023, Maine

Year	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
	Prices in dollars per million Btu									
1970	1.29	1.96	1.51	2.99	1.60	1.54	0.56	1.52	8.12	2.11
1975	2.62	2.59	2.87	4.78	3.16	2.95	1.11	2.87	11.67	4.05
1980	3.90	6.20	6.94	10.04	8.15	7.08	2.85	6.70	18.30	8.86
1985	4.39	8.76	7.55	11.45	8.92	7.82	3.22	7.51	23.71	11.08
1990	4.21	7.57	7.49	14.41	6.56	7.75	2.83	7.44	27.24	12.11
1995	4.01	7.20	6.02	13.53	4.70	6.22	2.30	6.04	36.65	11.52
2000	3.53	8.42	9.85	15.93	10.27	10.20	3.50	9.91	36.59	14.88
2005	5.42	15.46	15.05	23.10	15.00	15.53	5.48	14.98	38.79	19.40
2006	5.69	16.99	17.43	25.87	17.83	17.98	6.31	17.32	40.45	22.00
2007	5.69	15.78	19.37	28.39	22.27	20.44	6.97	19.48	48.43	25.56
2008	—	16.38	24.41	32.96	26.85	25.57	8.59	23.90	47.59	29.57
2009	—	15.76	18.18	29.38	21.90	19.95	6.45	17.48	45.83	24.03
2010	—	13.61	20.15	30.70	24.82	22.30	7.61	19.13	46.06	25.67
2011	—	13.63	25.43	33.13	29.02	26.74	9.15	22.96	45.09	28.30
2012	—	15.49	28.79	31.21	31.06	29.25	10.19	25.04	42.96	30.08
2013	—	14.75	27.85	29.50	31.01	28.23	9.98	23.54	42.07	R 28.47
2014	—	16.36	27.27	33.01	31.55	28.56	9.73	23.88	44.76	R 29.21
2015	—	16.29	18.71	25.87	16.89	R 19.80	6.71	16.27	45.76	22.64
2016	—	13.42	15.92	24.09	13.46	17.17	5.73	14.73	46.38	R 22.05
2017	—	14.10	17.84	27.74	16.84	19.46	6.41	16.61	46.80	R 23.59
2018	—	15.74	19.76	31.32	24.33	R 22.08	7.09	18.43	49.36	R 25.44
2019	—	15.48	18.83	28.96	22.72	21.03	6.82	17.34	52.43	R 25.20
2020	—	14.31	15.16	26.72	14.75	R 17.35	5.64	R 15.86	49.27	R 24.81
2021	—	15.89	18.44	32.50	23.30	R 21.31	6.77	R 19.17	49.88	R 27.96
2022	—	19.86	30.01	35.88	38.96	31.43	R 10.47	R 27.50	65.78	R 38.27
2023	—	18.34	27.07	33.52	34.24	28.68	9.58	25.63	80.37	40.38
	Expenditures in million dollars									
1970	0.7	1.0	69.1	2.6	14.9	86.6	1.0	89.4	47.7	137.1
1975	0.4	1.9	127.9	6.5	16.7	151.1	2.6	156.0	99.0	255.0
1980	0.5	3.5	257.7	8.9	18.7	285.4	10.9	300.3	187.2	487.5
1985	1.1	4.8	239.7	9.0	46.0	294.7	8.7	309.3	276.6	585.8
1990	0.9	4.9	261.1	28.0	20.9	310.0	7.4	323.2	365.5	688.7
1995	(s)	6.7	267.2	34.1	29.0	330.4	6.5	343.6	453.8	797.5
2000	(s)	10.1	398.9	37.5	97.9	534.2	7.4	551.7	466.6	1,018.3
2005	(s)	18.6	738.2	87.1	145.5	970.8	20.0	1,009.5	596.0	1,605.5
2006	(s)	17.6	751.8	81.7	140.7	974.1	20.5	1,012.3	600.5	1,612.8
2007	(s)	19.8	812.4	125.5	120.9	1,058.8	25.0	1,103.6	729.2	1,832.8
2008	—	19.2	844.9	165.7	64.0	1,074.6	34.5	1,128.3	706.5	1,834.9
2009	—	21.1	567.4	153.5	67.3	788.2	55.9	865.2	681.8	1,547.0
2010	—	17.4	543.5	184.6	73.9	802.0	70.7	890.2	687.0	1,577.2
2011	—	20.0	743.7	173.0	61.3	978.0	82.4	1,080.4	674.1	1,754.5
2012	—	23.7	698.1	153.4	26.4	878.0	76.7	978.4	656.8	1,635.2
2013	—	28.7	R 709.4	168.5	28.1	R 905.9	98.0	R 1,032.7	669.2	R 1,701.9
2014	—	39.8	R 709.6	216.6	44.6	R 970.8	96.8	R 1,107.4	711.8	R 1,819.2
2015	—	45.3	R 605.9	167.0	22.5	R 795.4	99.5	R 940.2	727.9	R 1,668.1
2016	—	35.5	R 488.8	157.8	25.6	R 672.1	R 58.6	R 766.2	725.7	R 1,491.9
2017	—	40.1	R 563.3	182.0	21.5	R 766.8	R 66.2	R 873.1	740.7	R 1,613.8
2018	—	50.2	R 635.8	245.1	26.2	R 907.1	R 88.6	R 1,045.9	820.6	R 1,866.5
2019	—	50.3	R 571.3	235.3	32.8	R 839.4	R 91.8	R 981.5	857.6	R 1,839.1
2020	—	44.1	R 438.5	192.3	22.5	R 653.3	R 28.4	R 725.7	824.7	R 1,550.4
2021	—	48.6	R 495.9	217.9	28.5	R 742.2	R 35.3	R 826.1	861.6	R 1,687.6
2022	—	63.4	R 803.7	242.1	42.0	R 1,087.9	R 68.7	R 1,220.0	1,142.5	R 2,362.5
2023	—	57.0	754.5	230.1	70.5	1,055.1	53.4	1,165.5	1,348.8	2,514.2

[a] Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2023, Maine

Year	Primary energy										Electricity [j]	Total energy [g,h,i]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f,g]	Total [g,h,i]		
	Prices in dollars per million Btu											
1970	0.98	1.42	1.11	1.33	0.68	3.02	0.35	1.04	0.56	1.04	7.86	2.36
1975	2.59	2.07	2.46	3.13	2.55	4.56	1.79	2.46	1.11	2.44	11.68	4.96
1980	1.68	5.00	6.32	5.80	6.50	9.69	4.33	5.83	2.85	5.67	19.20	8.99
1985	2.38	7.73	6.81	10.14	8.92	9.35	4.50	6.14	3.22	6.03	23.69	11.69
1990	2.61	6.69	6.44	10.70	6.56	9.74	2.91	5.11	1.49	5.00	24.03	9.47
1995	2.27	6.41	5.16	10.08	4.70	10.05	2.75	5.51	1.29	5.24	30.87	12.94
2000	2.11	5.26	7.67	12.46	10.27	12.41	4.26	8.02	1.49	7.33	30.12	14.56
2005	3.39	13.75	13.45	16.72	15.00	18.49	7.46	13.33	3.19	12.77	31.15	18.39
2006	3.59	14.86	15.88	18.58	17.83	20.99	8.48	15.82	3.02	14.78	36.42	21.99
2007	3.53	13.84	17.68	20.61	22.27	23.20	9.48	17.63	3.51	16.09	37.93	22.58
2008	—	14.88	23.94	24.05	26.85	27.23	12.63	21.94	3.95	19.48	37.96	24.89
2009	—	13.37	17.53	19.39	21.90	20.28	9.31	17.17	3.58	15.15	36.93	22.05
2010	—	11.27	18.79	22.40	24.82	23.53	12.85	19.23	4.00	15.95	36.68	22.76
2011	—	11.22	25.54	25.80	29.02	30.15	17.33	25.16	4.80	20.18	36.02	25.08
2012	—	11.88	26.23	21.57	31.06	31.13	19.12	24.47	4.79	19.01	33.78	24.01
2013	—	12.41	25.06	20.90	31.01	30.38	19.70	22.99	4.85	R 17.98	34.41	23.35
2014	—	14.65	24.82	22.61	31.55	29.19	18.55	23.94	R 4.99	R 19.20	37.23	R 24.86
2015	—	13.74	15.43	14.63	16.89	20.64	10.25	15.49	R 4.21	R 13.58	36.56	R 20.48
2016	—	10.32	12.94	13.53	13.46	18.57	7.54	13.62	R 3.20	R 11.44	35.42	R 19.13
2017	—	10.94	14.74	17.64	16.84	20.86	10.27	R 16.41	R 3.32	R 13.23	35.51	R 20.03
2018	—	12.55	19.20	19.12	24.33	23.28	13.26	19.49	R 4.02	R 15.67	36.67	R 22.61
2019	—	12.17	17.88	15.45	22.72	21.81	12.64	17.33	R 4.59	R 14.47	37.59	R 21.74
2020	—	10.93	12.38	14.68	14.75	18.37	9.94	13.85	R 3.33	R 12.12	36.82	R 20.05
2021	—	12.26	19.09	22.04	23.30	24.97	14.87	20.76	R 4.06	R 17.02	37.81	R 23.55
2022	—	15.87	31.11	23.40	38.96	33.63	24.48	28.34	R 5.98	R 22.82	45.15	R 30.01
2023	—	14.69	24.34	19.19	34.24	29.60	22.28	22.77	7.29	19.53	52.41	29.77
	Expenditures in million dollars											
1970	0.4	0.6	10.8	1.2	0.3	0.6	0.6	13.5	(s)	14.6	26.1	40.7
1975	1.0	1.1	23.1	4.3	0.6	1.0	3.7	32.7	(s)	34.8	62.5	97.3
1980	0.8	4.4	67.7	5.2	2.6	2.5	18.6	96.5	0.3	102.0	112.5	214.5
1985	2.2	9.1	42.9	8.0	5.0	5.1	29.4	90.4	0.2	102.0	189.0	290.9
1990	2.2	11.3	75.3	21.0	2.5	5.2	39.1	143.0	1.6	158.2	233.4	391.5
1995	0.1	15.8	68.6	25.6	4.3	0.6	6.4	105.5	2.5	124.0	313.1	437.1
2000	0.1	16.8	143.9	29.6	7.9	0.8	6.8	189.0	2.4	208.3	398.3	606.6
2005	0.2	69.0	225.5	68.0	18.4	1.4	23.2	336.5	6.1	411.8	441.8	853.6
2006	0.2	73.6	240.2	63.8	15.1	3.4	14.9	337.5	5.6	416.9	513.6	930.6
2007	0.2	85.2	299.7	107.8	14.7	5.7	24.3	452.3	7.0	544.7	543.0	1,087.7
2008	—	93.3	368.3	126.3	7.2	2.8	59.2	563.9	8.8	666.0	537.2	1,203.2
2009	—	77.2	213.5	119.4	6.4	3.5	23.8	366.6	10.1	454.0	513.0	967.0
2010	—	68.3	237.6	103.3	7.0	4.4	22.9	375.1	12.0	455.4	513.2	968.6
2011	—	77.1	353.0	142.0	6.2	2.9	22.6	526.8	13.4	617.2	493.9	1,111.1
2012	—	89.4	272.5	120.1	3.9	2.7	12.4	411.6	12.8	513.8	467.2	981.1
2013	—	104.2	R 206.9	148.4	3.6	4.6	25.8	R 389.3	14.1	R 507.5	471.5	R 979.0
2014	—	136.6	R 249.8	152.8	6.5	3.5	6.8	R 419.4	R 14.2	R 570.2	506.1	1,076.4
2015	—	142.6	R 134.4	101.7	3.2	32.8	3.8	R 276.0	R 16.0	R 434.5	501.1	R 935.7
2016	—	91.0	R 106.3	88.4	2.5	29.2	2.0	R 228.4	R 10.3	R 329.7	481.7	R 811.5
2017	—	101.1	R 126.5	124.9	2.1	33.3	2.3	R 289.0	R 11.7	R 401.9	474.5	R 876.4
2018	—	124.7	R 168.0	132.8	3.3	37.6	3.3	R 345.0	R 12.6	R 482.3	556.4	R 1,038.7
2019	—	125.2	R 163.7	103.0	4.5	35.4	2.1	R 308.8	R 12.7	R 446.7	532.1	R 978.9
2020	—	101.5	R 101.2	89.7	2.9	30.3	1.5	R 225.5	R 6.5	R 333.5	479.4	R 812.9
2021	—	115.4	R 173.3	156.3	3.4	41.4	3.3	R 377.7	R 7.3	R 500.4	509.4	R 1,009.8
2022	—	154.8	R 277.5	163.4	5.0	59.0	5.6	R 510.5	R 11.2	R 676.5	636.1	R 1,312.6
2023	—	140.3	225.8	153.6	8.4	49.6	4.2	441.6	10.0	591.8	718.4	1,310.2

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[g] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[j] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: Expenditure totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2023, Maine

Year	Primary energy												Electricity [i]	Total energy [f,g,h]
	Coal			Natural gas [a]	Petroleum						Biomass	Total [f,g,h]		
	Coking coal	Steam coal	Total		Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e,f]			
	Prices in dollars per million Btu													
1970	—	0.98	0.98	0.84	0.63	1.40	3.02	0.43	1.00	0.58	1.40	0.65	3.52	1.06
1975	—	2.59	2.59	1.42	2.30	3.40	4.56	1.82	2.39	1.97	1.40	1.93	6.46	2.55
1980	—	1.68	1.68	4.19	5.94	6.32	9.69	3.84	5.07	4.39	1.41	3.47	13.15	5.26
1985	—	2.38	2.38	6.14	6.65	11.38	9.35	4.50	5.55	5.26	1.41	4.08	15.15	6.11
1990	—	2.61	2.61	5.04	6.17	11.92	9.74	2.91	4.88	3.87	0.94	2.37	17.46	4.52
1995	—	2.27	2.27	4.39	4.96	7.93	10.05	2.75	6.33	3.42	1.19	2.16	19.48	3.91
2000	—	2.11	2.11	3.56	8.00	12.41	12.41	4.26	8.34	5.21	1.43	2.85	20.19	4.57
2005	—	3.39	3.39	13.14	13.03	19.73	18.49	7.46	10.31	9.38	2.77	5.76	21.32	7.42
2006	—	3.59	3.59	13.65	16.11	21.54	20.99	8.48	26.68	11.46	2.69	7.11	25.88	9.19
2007	—	3.53	3.53	12.51	17.78	25.37	23.20	9.48	14.81	12.84	2.56	7.11	41.34	10.13
2008	—	4.12	4.12	13.96	24.04	32.41	27.23	12.63	36.45	17.74	2.92	7.38	33.87	9.32
2009	—	4.26	4.26	8.75	15.40	25.41	20.28	9.31	14.76	12.48	2.72	7.01	29.40	9.19
2010	—	4.42	4.42	10.81	18.72	24.00	23.53	12.85	R 16.00	R 16.02	2.76	R 7.62	26.88	R 9.35
2011	—	5.08	5.08	10.46	24.04	29.69	30.15	17.33	R 18.63	R 20.84	2.85	R 8.23	26.04	R 9.80
2012	—	6.52	6.52	10.06	25.20	23.96	31.13	19.12	R 19.37	R 22.35	2.71	R 7.81	23.39	R 9.18
2013	—	5.79	5.79	10.01	24.29	23.05	30.38	19.70	R 19.60	R 22.21	2.70	R 7.36	24.45	R 8.96
2014	—	5.90	5.90	11.55	24.20	25.34	29.19	18.55	R 19.79	R 21.91	3.27	R 8.10	26.22	R 10.14
2015	—	5.68	5.68	8.68	15.53	14.53	20.64	10.25	R 16.27	R 15.98	3.18	R 6.63	26.53	R 9.04
2016	—	5.21	5.21	7.46	12.73	13.04	18.57	7.54	R 13.69	R 13.38	3.10	R 5.88	26.26	R 8.49
2017	—	5.01	5.01	7.87	13.85	17.34	20.86	10.27	14.57	14.83	3.04	6.24	26.98	8.77
2018	—	5.52	5.52	8.93	18.09	18.81	23.28	13.26	17.90	18.01	2.75	6.90	27.32	9.59
2019	—	6.16	6.16	8.36	16.60	15.14	21.81	12.64	R 20.87	R 17.88	2.71	6.46	27.03	8.87
2020	—	5.83	5.83	7.55	11.89	14.36	18.37	9.94	R 16.62	14.79	2.19	6.31	25.98	8.59
2021	—	—	—	8.82	16.28	21.70	24.97	14.87	R 17.54	R 17.69	2.84	7.87	27.98	10.24
2022	—	—	—	12.39	27.53	23.04	33.63	24.48	R 23.94	R 26.28	3.09	R 10.89	32.33	R 13.76
2023	—	—	—	10.03	23.86	18.82	29.60	22.28	21.18	23.05	3.28	9.82	36.04	13.32
	Expenditures in million dollars													
1970	—	1.1	1.1	0.3	2.9	0.9	2.2	13.8	5.3	25.2	5.4	32.0	28.4	60.4
1975	—	2.0	2.0	1.0	9.2	3.0	1.9	66.8	12.7	93.5	5.8	102.3	54.6	156.9
1980	—	4.1	4.1	3.2	26.4	8.9	3.8	97.6	17.5	154.2	19.4	180.9	155.7	336.5
1985	—	9.3	9.3	5.4	19.7	9.7	6.1	96.3	83.4	215.3	22.8	252.8	210.2	462.9
1990	—	14.5	14.5	10.2	30.2	14.7	4.8	87.6	23.6	161.0	45.7	231.4	283.0	514.5
1995	—	15.9	15.9	8.9	34.7	5.9	8.8	127.4	25.0	201.9	97.6	324.2	329.7	653.9
2000	—	12.0	12.0	53.2	45.1	3.8	5.6	142.4	27.5	224.4	110.0	399.6	313.6	713.2
2005	—	10.9	10.9	89.4	80.3	18.9	25.5	186.4	34.1	345.0	162.7	608.1	269.3	877.4
2006	—	10.0	10.0	252.0	76.7	28.3	31.8	175.2	20.6	332.6	144.6	739.2	335.6	1,074.8
2007	—	10.4	10.4	290.0	97.7	24.7	31.1	165.1	41.4	359.9	154.9	815.2	458.7	1,273.8
2008	—	10.8	10.8	381.6	153.1	6.3	27.6	157.5	21.7	366.2	251.6	1,010.2	366.9	1,377.1
2009	—	3.4	3.4	236.4	76.6	8.2	19.9	110.2	72.2	286.9	107.6	634.3	286.1	920.4
2010	—	3.8	3.8	318.5	92.3	4.9	36.8	108.1	R 88.8	R 330.9	150.4	R 803.7	280.5	R 1,084.2
2011	—	2.9	2.9	302.0	130.7	12.5	47.2	121.3	R 94.0	R 405.6	163.5	R 874.1	267.9	R 1,142.0
2012	—	3.2	3.2	313.1	132.3	3.4	45.0	58.1	R 117.1	R 355.8	159.7	R 831.7	241.6	R 1,073.4
2013	—	4.0	4.0	333.4	82.0	3.0	44.7	53.4	R 92.8	R 275.9	157.6	R 770.9	265.0	R 1,035.9
2014	—	4.8	4.8	287.8	82.8	4.4	39.1	41.9	R 99.3	R 267.4	171.3	R 731.2	300.4	R 1,031.6
2015	—	4.2	4.2	187.7	61.9	5.4	23.4	8.3	R 92.6	R 191.5	143.2	R 526.7	290.4	R 817.0
2016	—	2.2	2.2	145.8	43.4	4.0	21.4	6.4	R 54.5	R 129.6	115.0	R 392.6	257.7	R 650.3
2017	—	2.3	2.3	144.2	48.7	7.7	24.2	8.1	61.5	150.2	110.8	407.6	244.7	652.3
2018	—	3.0	3.0	178.1	71.2	6.7	27.3	17.8	65.0	188.0	103.3	472.4	282.9	755.3
2019	—	2.8	2.8	182.3	78.0	5.3	25.5	11.1	R 49.3	R 169.2	107.7	R 462.0	257.3	719.2
2020	—	1.9	1.9	178.0	46.6	4.1	21.6	7.6	R 100.6	180.5	70.7	R 431.2	232.8	R 663.9
2021	—	—	—	200.7	63.0	6.3	28.1	15.6	R 117.3	R 230.2	84.7	R 515.7	245.7	R 761.3
2022	—	—	—	267.2	107.7	7.8	40.3	26.2	R 108.8	R 290.8	R 80.3	R 638.4	292.9	R 931.4
2023	—	—	—	191.5	91.1	4.7	35.3	19.8	103.8	254.8	75.3	521.6	295.2	816.7

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[i] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.
Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET6. Transportation sector energy price and expenditure estimates, selected years, 1970-2023, Maine

Year	Primary energy											Electricity [g]	Total energy [f]
			Petroleum										
	Coal	Natural gas[a]	Aviation gasoline	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Lubricants	Motor gasoline [e]	Residual fuel oil	Total	Total [f]		
	Prices in dollars per million Btu												
1970	0.98	—	2.17	1.39	1.33	0.75	5.08	3.02	0.31	2.28	2.28	—	2.28
1975	2.59	—	3.45	2.90	3.13	2.09	7.48	4.56	1.66	3.95	3.95	—	3.95
1980	—	—	9.02	7.41	5.80	6.51	14.36	9.69	3.68	8.99	8.99	—	8.99
1985	—	—	9.99	9.16	11.62	6.10	18.18	9.35	4.08	9.06	9.06	—	9.06
1990	—	—	9.32	9.10	12.47	5.92	20.61	9.74	2.52	9.15	9.15	—	9.15
1995	—	4.15	8.36	8.47	11.68	4.12	21.75	10.05	2.54	9.44	9.44	—	9.44
2000	—	2.36	10.87	11.63	14.52	6.91	23.20	12.41	3.20	11.75	11.75	17.24	11.75
2005	—	—	18.56	18.04	17.87	12.74	35.22	18.49	5.79	17.55	17.55	—	17.55
2006	—	—	22.31	20.12	19.88	14.92	43.88	20.99	8.01	19.95	19.95	—	19.95
2007	—	—	23.70	21.61	21.65	16.47	47.16	23.20	9.06	22.30	22.30	—	22.30
2008	—	12.94	27.23	29.63	25.57	23.06	55.12	27.23	9.57	27.59	27.59	—	27.59
2009	—	12.46	20.32	19.23	19.94	12.87	56.07	20.28	6.13	19.19	19.19	—	19.19
2010	—	12.02	25.19	22.48	23.21	16.41	58.80	23.53	10.78	22.91	22.91	—	22.91
2011	—	4.11	31.64	29.01	27.10	22.95	69.54	30.15	14.73	29.38	29.38	—	29.38
2012	—	14.22	33.04	30.12	22.92	23.55	72.11	31.13	16.39	30.42	30.42	—	30.42
2013	—	R 14.61	32.71	29.79	22.25	22.59	69.42	30.38	15.74	29.73	29.73	—	29.73
2014	—	R 14.78	33.16	29.26	23.84	21.02	69.44	29.19	15.21	28.97	28.97	—	28.97
2015	—	R 14.44	24.86	21.12	15.95	12.79	67.28	20.64	8.19	20.71	20.71	—	20.71
2016	—	R 10.59	21.62	17.40	14.87	10.41	65.78	18.57	5.94	18.28	18.28	—	18.28
2017	—	R 10.48	24.13	19.66	18.22	12.30	67.25	20.86	8.40	20.51	20.51	—	20.51
2018	—	R 10.66	27.04	23.65	19.39	16.27	72.37	23.28	10.51	23.40	23.40	—	23.40
2019	—	R 10.85	25.57	22.88	16.65	15.21	74.92	21.81	9.89	22.15	22.15	—	22.15
2020	—	R 10.35	22.34	19.91	15.32	10.58	75.34	18.37	7.21	18.92	18.92	—	18.92
2021	—	R 10.06	28.86	23.57	20.97	15.33	81.25	24.97	10.90	R 24.62	R 24.62	—	R 24.62
2022	—	R 14.90	36.02	38.48	21.64	26.99	97.37	33.63	18.89	R 34.95	R 34.95	—	R 34.95
2023	—	18.09	32.62	32.96	18.38	21.67	105.48	29.60	15.55	30.29	30.29	—	30.29
	Expenditures in million dollars												
1970	(s)	—	1.0	11.2	(s)	9.4	3.5	172.1	2.7	199.9	199.9	—	199.9
1975	(s)	—	1.2	25.8	(s)	22.7	4.9	300.2	9.8	364.6	364.6	—	364.6
1980	—	—	3.7	68.8	0.2	66.7	11.5	592.4	4.8	748.1	748.1	—	748.1
1985	—	—	2.1	176.1	0.7	54.4	13.2	604.9	0.5	852.0	852.0	—	852.0
1990	—	—	2.9	237.2	0.8	82.9	16.9	712.8	2.3	1,055.8	1,055.8	—	1,055.8
1995	—	0.1	1.5	177.4	0.5	19.6	17.0	741.9	3.3	961.1	961.1	—	961.1
2000	—	(s)	1.4	279.1	(s)	35.6	19.3	1,047.6	14.0	1,397.2	1,397.2	(s)	1,397.2
2005	—	—	3.8	480.4	0.6	103.0	24.8	1,635.7	34.6	2,282.8	2,282.8	—	2,282.8
2006	—	—	5.8	552.9	0.6	151.4	30.1	1,814.8	41.1	2,596.8	2,596.8	—	2,596.8
2007	—	—	6.2	590.1	0.6	164.9	33.4	1,963.8	11.3	2,770.2	2,770.2	—	2,770.2
2008	—	(s)	4.6	785.5	1.2	183.2	36.2	2,169.6	3.5	3,183.9	3,183.9	—	3,183.9
2009	—	(s)	3.6	R 546.0	0.7	89.8	33.1	1,622.6	30.7	2,326.5	2,326.5	—	2,326.5
2010	—	(s)	2.8	623.1	1.0	79.3	43.5	1,883.4	29.7	2,662.8	2,662.8	—	2,662.8
2011	—	(s)	8.5	R 788.1	1.3	106.8	49.5	2,387.7	49.9	R 3,391.8	R 3,391.8	—	R 3,391.8
2012	—	(s)	3.0	R 810.8	1.3	103.1	46.7	2,384.7	50.5	R 3,400.0	R 3,400.0	—	R 3,400.0
2013	—	(s)	2.6	R 844.0	1.6	96.0	52.6	2,657.9	64.6	R 3,719.3	R 3,719.3	—	R 3,719.3
2014	—	(s)	2.6	R 800.9	2.0	82.1	52.8	2,676.8	30.7	R 3,648.0	R 3,648.0	—	R 3,648.0
2015	—	(s)	3.0	R 614.2	1.0	50.7	55.7	1,891.1	8.2	R 2,623.8	R 2,623.8	—	R 2,623.8
2016	—	(s)	2.4	R 492.4	1.2	31.8	51.2	1,735.4	7.4	R 2,321.9	R 2,321.9	—	R 2,321.9
2017	—	(s)	3.0	R 775.1	0.6	37.2	50.8	1,589.3	3.2	R 2,459.2	R 2,459.2	—	R 2,459.2
2018	—	(s)	3.2	R 633.5	0.2	R 48.9	42.2	1,757.8	4.4	R 2,490.2	R 2,490.2	—	R 2,490.2
2019	—	(s)	3.3	614.4	0.2	R 42.5	41.9	1,635.4	3.6	R 2,341.3	R 2,341.3	—	R 2,341.3
2020	—	(s)	2.1	R 522.2	0.2	R 20.9	38.6	1,249.2	0.9	R 1,834.1	R 1,834.2	—	R 1,834.2
2021	—	(s)	3.4	R 559.2	0.4	R 43.6	42.0	1,895.7	4.3	2,548.7	2,548.7	—	2,548.7
2022	—	(s)	4.3	R 1,073.7	0.7	R 104.5	R 56.0	2,454.5	7.7	R 3,701.3	R 3,701.3	—	R 3,701.3
2023	—	(s)	3.7	903.8	0.5	114.2	46.8	2,428.5	5.3	3,502.8	3,502.8	—	3,502.8

[a] Transportation use of natural gas as vehicle fuel only.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET7. Electric power sector price and expenditure estimates, selected years, 1970-2023, Maine

Year	Coal	Natural gas [a]	Petroleum: Distillate fuel oil	Petroleum: Petroleum coke	Petroleum: Residual fuel oil	Petroleum: Total	Nuclear fuel	Biomass: Wood and waste [b]	Electricity imports [c]	Total energy [d]
	Prices in dollars per million Btu									
1970	—	—	0.41	—	0.34	0.35	—	—	1.92	0.44
1975	—	—	2.48	—	1.78	1.79	0.32	—	3.89	0.94
1980	—	—	6.33	—	4.38	4.41	0.58	—	6.94	2.61
1985	—	—	5.89	—	4.21	4.23	0.62	—	9.34	1.95
1990	1.80	2.40	5.40	—	2.78	2.79	0.46	0.46	8.37	1.59
1995	1.69	1.99	3.78	0.60	2.60	2.35	2.14	1.50	6.21	3.15
2000	1.53	4.43	6.81	0.74	3.27	3.21	—	0.67	16.78	4.86
2005	2.73	9.15	11.75	—	5.61	5.71	—	2.28	16.53	6.70
2006	2.71	7.06	14.06	—	7.61	8.19	—	2.32	17.32	6.30
2007	2.85	7.67	15.77	—	8.54	8.78	—	2.42	18.25	6.94
2008	3.12	9.86	19.91	—	9.68	10.06	—	2.66	18.28	7.29
2009	3.48	4.70	12.73	—	6.05	6.20	—	2.20	12.10	4.63
2010	3.45	5.19	16.48	—	11.93	12.07	—	2.40	13.31	5.23
2011	3.68	4.81	22.15	—	17.75	17.86	—	2.44	11.53	5.15
2012	3.59	3.55	23.43	—	20.12	20.18	—	2.21	9.51	4.13
2013	4.21	5.83	22.00	—	18.80	18.84	—	2.26	11.49	6.31
2014	4.27	6.51	20.01	—	17.27	17.32	—	2.73	13.31	6.97
2015	3.47	4.24	16.73	—	8.98	9.31	—	2.62	10.54	5.39
2016	4.07	3.22	9.76	—	7.69	7.73	—	2.54	8.74	4.38
2017	4.34	3.68	14.05	—	10.09	10.30	—	2.40	9.18	4.66
2018	3.87	4.67	15.87	—	12.12	12.29	—	2.22	10.74	5.30
2019	3.35	4.32	16.64	—	11.63	12.12	—	2.33	9.20	4.95
2020	3.11	3.22	9.58	—	8.57	8.66	—	1.80	8.38	3.75
2021	3.99	5.69	16.48	—	12.92	13.07	—	2.39	12.82	5.39
2022	4.55	8.82	21.71	—	22.33	22.32	—	2.69	19.84	8.84
2023	5.40	7.22	21.04	—	18.47	18.55	—	2.93	18.72	7.70
	Expenditures in million dollars									
1970	—	—	0.2	—	10.3	10.6	—	—	3.7	14.2
1975	—	—	0.6	—	31.4	32.0	16.1	—	20.4	68.5
1980	—	—	2.2	—	99.7	101.9	27.9	—	89.7	219.5
1985	—	—	1.0	—	90.9	91.9	35.1	—	33.8	160.7
1990	6.9	0.5	0.7	—	62.2	62.9	23.9	10.0	66.8	170.9
1995	6.6	0.2	0.7	0.9	23.9	25.5	4.4	28.7	98.0	163.4
2000	6.5	123.1	1.6	0.6	66.5	68.7	—	17.7	242.6	458.5
2005	10.3	468.5	1.9	—	53.5	55.5	—	96.1	143.1	773.5
2006	10.2	300.5	1.4	—	7.6	8.9	—	94.6	223.0	637.3
2007	10.2	274.7	2.4	—	37.4	39.8	—	99.0	265.4	689.1
2008	10.2	381.7	1.7	—	21.7	23.4	—	90.8	108.7	614.8
2009	3.0	181.2	0.9	—	18.7	19.6	—	66.6	107.6	377.9
2010	4.9	219.7	1.3	—	29.9	31.3	—	77.5	129.0	462.3
2011	3.6	170.1	0.9	—	26.2	27.1	—	68.9	127.4	397.1
2012	2.9	104.7	0.5	—	24.6	25.1	—	59.4	86.5	278.6
2013	4.1	124.6	0.8	—	51.1	52.0	—	62.5	199.8	443.0
2014	5.7	158.8	1.0	—	52.9	54.0	—	76.7	213.6	508.7
2015	6.4	78.1	4.0	—	48.9	53.0	—	81.2	179.8	398.5
2016	7.2	73.6	0.3	—	11.0	11.2	—	71.0	148.6	311.6
2017	7.4	51.5	1.2	—	16.3	17.5	—	68.4	139.9	284.7
2018	6.1	67.5	1.5	—	23.3	24.8	—	59.9	159.3	317.7
2019	5.7	42.1	0.7	—	4.7	5.5	—	47.5	127.3	228.2
2020	4.1	32.6	0.4	—	4.1	4.5	—	40.0	84.7	165.9
2021	6.3	114.3	0.4	—	7.9	8.3	—	52.8	99.0	280.8
2022	5.8	230.0	1.0	—	67.5	68.6	—	51.2	146.8	502.4
2023	7.0	194.8	0.6	—	16.5	17.1	—	47.8	142.1	408.8

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[c] Electricity imported from Canada and Mexico.
[d] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET1. Primary energy, electricity, and total energy price and expenditure estimates, selected years, 1970-2023, Maryland

	Primary energy														Electric power sector [i,k,l]	Electricity [m]	Total energy [h,i,j]
	Coal				Petroleum								Biomass				
Year	Coking coal	Steam coal	Total	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Nuclear fuel	Wood and waste [g,h]	Total [h,i,j,k]			
	Prices in dollars per million Btu																
1970	0.58	0.34	0.45	1.07	1.20	1.71	0.73	2.85	0.43	1.53	1.62	—	1.17	1.17	0.40	5.76	1.79
1975	2.14	1.28	1.69	1.94	2.61	3.58	2.04	4.86	1.87	2.90	3.29	0.23	1.43	2.62	1.36	11.19	4.00
1980	2.38	1.50	1.77	3.81	6.87	6.63	6.46	9.93	4.04	7.14	7.66	0.44	2.88	4.90	1.66	15.47	7.65
1985	1.88	1.71	1.75	6.29	7.76	11.59	5.80	9.51	4.06	6.96	8.12	0.59	3.18	5.39	1.66	18.60	9.02
1990	1.71	1.60	1.61	5.01	7.95	11.73	5.47	10.33	3.04	5.64	8.18	0.61	1.28	5.52	1.87	18.45	9.44
1995	—	1.49	1.49	4.80	6.79	11.80	3.89	10.49	2.65	5.31	8.46	0.48	1.36	4.92	1.26	20.66	10.25
2000	—	1.33	1.33	7.97	9.93	15.00	6.55	12.01	3.86	6.61	10.30	0.43	1.52	6.33	1.39	19.72	11.87
2005	—	1.96	1.96	12.43	16.27	20.79	12.57	18.23	6.95	8.22	15.87	0.42	2.98	9.87	2.26	23.83	16.83
2006	—	2.29	2.29	13.28	18.49	23.46	14.78	20.91	8.03	15.60	19.47	0.52	2.99	11.49	2.09	29.17	20.02
2007	—	2.16	2.16	12.44	20.00	26.28	15.93	22.38	9.21	14.50	20.78	0.46	3.14	11.82	2.09	33.72	21.62
2008	—	3.63	3.63	13.72	26.63	30.74	21.94	26.15	12.45	20.27	25.55	0.48	3.68	14.41	3.08	38.12	25.32
2009	—	2.98	2.98	11.15	17.60	26.26	12.19	18.99	8.95	18.49	18.46	0.55	3.70	11.08	2.30	38.37	21.11
2010	—	3.36	3.36	9.94	21.21	29.23	16.28	22.71	11.87	R 23.22	R 21.97	0.64	4.05	R 12.55	2.76	37.24	R 22.71
2011	—	3.65	3.65	10.03	26.78	32.59	22.51	28.85	17.98	R 27.53	R 27.89	0.67	4.53	R 15.38	2.77	34.98	R 25.44
2012	—	3.54	3.54	8.63	28.05	29.10	23.08	29.92	19.67	R 27.55	R 28.89	0.73	4.26	R 16.01	2.50	33.07	R 25.65
2013	—	3.39	3.39	R 9.58	27.59	28.91	21.95	29.07	18.38	R 28.16	R 28.20	0.77	4.60	R 16.02	2.52	34.16	R 25.37
2014	—	2.96	2.96	10.18	27.16	31.40	20.61	28.11	17.54	R 27.01	R 27.39	0.72	R 5.06	R 15.48	2.45	35.47	R 25.14
2015	—	2.86	2.86	9.09	19.19	23.43	11.99	20.37	9.04	R 23.83	R 19.74	0.72	R 3.62	R 12.03	2.15	35.38	R 21.05
2016	—	2.83	2.83	8.06	16.16	21.87	9.49	18.41	7.22	R 20.45	R 17.44	0.71	R 3.27	R 10.54	1.99	35.79	R 19.88
2017	—	2.65	2.65	R 9.21	18.84	25.43	12.04	21.02	9.15	20.90	19.94	0.71	R 3.28	12.38	1.86	35.12	21.25
2018	—	2.53	2.53	7.95	22.03	28.12	15.86	23.02	11.68	25.77	22.41	0.68	R 3.34	R 12.89	2.22	33.90	22.11
2019	—	2.66	2.66	R 8.09	21.54	23.72	14.64	21.71	10.99	R 25.57	21.27	0.65	R 3.54	12.88	1.88	32.93	21.47
2020	—	2.37	2.37	R 7.91	18.22	22.08	9.89	18.76	7.65	R 23.65	18.18	0.62	R 3.06	11.05	1.49	32.68	R 20.04
2021	—	2.40	2.40	9.39	R 22.29	27.84	14.62	25.07	12.01	R 26.67	23.86	0.73	R 3.91	14.29	2.26	33.65	R 23.64
2022	—	3.09	3.09	R 12.42	R 34.97	29.99	27.03	32.87	21.55	R 34.12	32.79	0.59	R 5.91	R 19.18	R 3.65	39.04	R 29.98
2023	—	3.49	3.49	9.71	29.96	27.78	21.46	29.24	18.24	30.87	28.74	0.59	5.49	17.24	1.64	42.03	28.85
	Expenditures in million dollars																
1970	79.6	60.2	139.9	168.5	138.3	11.9	18.1	556.7	58.7	70.9	854.6	—	7.2	1,170.1	-91.0	442.4	1,521.5
1975	200.6	132.5	333.1	270.5	317.1	32.0	34.6	1,115.0	314.0	128.5	1,941.2	11.3	9.1	2,565.3	-352.5	1,042.3	3,255.0
1980	168.9	247.5	416.5	607.5	872.6	50.1	126.3	2,296.3	415.8	296.8	4,057.9	52.5	21.7	5,156.0	-544.9	1,825.4	6,436.6
1985	107.4	340.4	447.8	966.9	857.2	77.5	125.7	2,280.3	201.9	392.1	3,934.7	61.8	29.3	5,440.5	-535.1	2,495.9	7,401.3
1990	57.6	404.4	462.0	892.8	848.7	85.6	110.9	2,573.9	201.4	316.6	4,137.1	8.1	21.0	5,521.1	-593.6	3,117.9	8,045.4
1995	—	430.5	430.5	943.0	757.5	118.6	75.6	2,810.7	67.7	256.2	4,086.3	65.4	33.4	5,558.6	-562.5	3,958.9	8,955.1
2000	—	414.2	414.2	1,721.2	1,293.2	134.0	152.5	3,569.7	125.2	364.0	5,638.6	62.6	37.8	7,874.4	-699.2	4,083.1	11,258.3
2005	—	643.9	643.9	2,610.5	2,238.5	247.9	310.9	6,108.4	324.7	433.3	9,663.7	64.7	57.0	13,039.8	-1,169.9	5,559.1	17,428.9
2006	—	741.9	741.9	2,479.8	2,425.7	271.4	347.2	7,121.8	132.3	454.7	10,753.2	75.4	58.4	14,108.6	-993.1	6,287.7	19,403.3
2007	—	706.9	706.9	2,566.6	2,509.5	278.5	318.2	7,625.6	141.7	528.6	11,402.1	69.7	59.7	14,805.1	-1,026.9	7,522.6	21,300.8
2008	—	1,123.2	1,123.2	2,749.4	3,018.0	370.3	477.2	8,702.3	124.6	661.1	13,353.6	73.1	71.4	17,370.6	-1,436.8	8,236.7	24,170.5
2009	—	795.7	795.7	2,242.9	R 2,011.4	320.5	231.0	6,684.2	58.1	426.8	R 9,732.1	84.4	71.1	R 12,926.1	-981.4	8,193.7	R 20,138.4
2010	—	894.1	894.1	2,099.6	2,558.8	385.6	588.4	7,355.8	78.5	R 504.4	R 11,471.5	92.9	87.6	R 14,650.8	-1,195.4	8,301.0	R 21,756.4
2011	—	881.3	881.3	1,935.3	R 2,990.9	426.8	835.9	9,199.2	71.1	R 549.0	R 14,072.8	101.1	95.1	R 17,093.7	-1,112.2	7,590.5	R 23,572.0
2012	—	681.1	681.1	1,802.8	R 2,918.4	290.1	821.3	9,677.4	37.5	R 530.6	R 14,275.2	103.3	90.5	R 16,952.9	-934.7	6,973.7	R 22,991.8
2013	—	620.7	620.7	R 1,934.0	R 2,724.3	328.6	774.2	9,818.7	36.4	R 554.6	R 14,236.8	114.3	103.6	R 17,021.2	-889.1	7,215.5	R 23,347.6
2014	—	595.2	595.2	R 2,152.0	R 3,036.2	410.3	702.0	9,180.9	34.6	R 625.0	R 13,989.1	108.7	R 110.9	R 16,964.1	-908.6	7,464.6	R 23,520.1
2015	—	475.2	475.2	R 1,992.6	R 2,133.4	286.5	433.9	6,945.8	13.1	R 580.4	R 10,393.0	110.1	R 67.0	R 13,044.7	-766.8	7,458.5	R 19,736.4
2016	—	460.5	460.5	R 1,791.6	R 1,589.7	238.4	362.7	6,065.9	5.2	R 476.9	R 8,738.7	109.6	R 61.3	R 11,165.1	-730.4	7,492.2	R 17,926.9
2017	—	283.2	283.2	R 2,071.5	R 1,786.4	277.9	491.9	6,851.4	6.1	510.3	R 9,923.9	112.9	R 58.3	R 12,450.0	-587.1	7,106.1	R 18,969.1
2018	—	313.7	313.7	R 2,303.5	R 2,297.8	328.0	R 664.3	7,472.1	18.6	516.2	R 11,297.0	106.3	R 60.9	R 14,082.1	-848.2	7,182.0	R 20,415.9
2019	—	205.3	205.3	R 2,309.5	R 2,203.5	300.7	R 613.1	7,029.2	7.1	R 499.1	R 10,652.6	101.7	R 47.2	R 13,316.3	-623.3	6,823.3	R 19,516.2
2020	—	117.5	117.5	R 2,118.6	R 1,753.4	267.4	R 329.9	4,833.6	17.0	R 429.2	R 7,630.6	97.7	R 30.5	R 9,995.0	-453.5	6,425.6	R 15,967.1
2021	—	165.7	165.7	R 2,543.2	R 2,219.8	345.8	R 461.3	7,359.8	10.5	R 503.1	R 10,900.4	114.1	R 38.9	R 13,762.4	-737.9	6,809.7	R 19,834.2
2022	—	191.1	191.1	R 3,481.5	R 3,317.6	366.1	R 958.3	8,887.6	26.2	R 649.6	R 14,205.3	90.9	R 57.1	R 18,026.0	R -1,152.3	7,950.3	R 24,824.0
2023	—	106.0	106.0	2,688.5	2,727.5	286.3	816.7	8,621.5	21.0	556.8	13,029.8	92.2	50.0	15,966.4	-492.8	8,179.1	23,652.7

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[l] Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
[m] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.
Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET2. Total end-use energy price and expenditure estimates, selected years, 1970-2023, Maryland

Year	Primary energy											Electricity [k]	Total energy [h,i,j]
			Petroleum							Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g,h]	Total [h,i,j]		
	Prices in dollars per million Btu												
1970	0.50	1.13	1.24	1.71	0.73	2.85	0.42	1.53	1.80	1.17	1.39	5.76	1.79
1975	2.04	1.94	2.62	3.58	2.03	4.86	1.90	2.90	3.65	1.43	3.07	11.19	4.00
1980	2.14	3.86	6.92	6.63	6.46	9.93	3.88	7.14	8.06	2.88	6.38	15.47	7.65
1985	1.75	6.32	7.86	11.59	5.80	9.51	4.13	6.96	8.44	3.22	7.14	18.60	9.02
1990	1.48	5.37	8.04	11.73	5.47	10.33	2.92	5.64	8.68	1.93	7.22	18.45	9.44
1995	1.32	5.10	6.90	11.80	3.89	10.49	2.69	5.31	8.68	1.82	7.32	20.66	10.25
2000	1.28	8.54	10.04	15.00	6.55	12.01	3.96	6.61	10.62	2.37	9.68	19.72	11.87
2005	2.30	12.72	16.52	20.79	12.57	18.23	7.20	8.22	16.46	3.40	14.79	23.83	16.83
2006	2.44	14.09	18.58	23.46	14.78	20.91	8.14	15.60	19.57	3.42	17.41	29.17	20.02
2007	2.46	13.09	20.17	26.28	15.93	22.38	9.44	14.50	20.97	3.61	18.08	33.72	21.62
2008	2.86	14.05	26.80	30.74	21.94	26.15	12.64	20.27	25.64	4.35	21.57	38.12	25.32
2009	2.42	11.77	17.68	26.26	12.19	18.99	8.86	18.49	18.52	4.64	16.14	38.37	21.11
2010	2.23	10.71	21.33	29.23	16.28	22.71	11.77	R 23.22	R 22.01	4.95	R 18.31	37.24	R 22.71
2011	3.05	10.62	R 26.86	32.59	22.51	28.85	17.83	R 27.53	R 27.92	5.56	R 22.52	34.98	R 25.44
2012	2.89	10.39	28.11	29.10	23.08	29.92	19.43	R 27.55	R 28.91	5.36	R 23.37	33.07	R 25.65
2013	2.94	10.28	27.68	28.91	21.95	29.07	18.10	R 28.16	R 28.22	5.82	R 22.75	34.16	R 25.37
2014	2.85	10.75	27.33	31.40	20.61	28.11	15.44	R 27.01	R 27.46	R 6.37	R 22.14	35.47	R 25.14
2015	2.74	10.32	19.26	23.43	11.99	20.37	8.36	R 23.83	R 19.78	R 4.34	R 16.89	35.38	R 21.05
2016	2.55	R 9.66	16.26	21.87	9.49	18.41	6.24	R 20.45	R 17.47	R 3.78	R 15.07	35.79	R 19.88
2017	2.48	R 10.97	18.92	25.43	12.04	21.02	8.61	20.90	19.96	R 3.97	17.18	35.12	21.25
2018	2.47	R 10.16	22.18	28.12	15.86	23.02	10.98	25.77	R 22.45	R 4.16	R 18.60	33.90	22.11
2019	2.63	R 10.78	21.59	23.72	14.64	21.71	10.36	R 25.57	21.29	R 4.73	18.08	32.93	21.47
2020	2.30	R 11.16	18.29	22.08	9.89	18.76	7.58	R 23.65	18.19	R 5.29	R 15.90	32.68	R 20.04
2021	2.28	12.46	22.34	27.84	14.62	25.07	11.49	R 26.67	23.88	R 7.03	R 20.45	33.65	R 23.64
2022	2.91	14.73	R 35.10	29.99	27.03	32.87	20.01	R 34.12	R 32.83	R 10.72	R 27.03	39.04	R 29.98
2023	3.35	14.92	30.01	27.78	21.46	29.24	16.98	30.87	28.76	10.14	24.75	42.03	28.85
	Expenditures in million dollars												
1970	82.6	164.7	135.7	11.9	18.1	556.7	31.4	70.9	824.6	7.2	1,079.1	442.4	1,521.5
1975	210.4	270.1	309.4	32.0	33.5	1,115.0	104.7	128.5	1,723.2	9.1	2,212.7	1,042.3	3,255.0
1980	191.5	594.1	834.4	50.1	125.9	2,296.3	200.3	296.8	3,803.8	21.7	4,611.1	1,825.4	6,436.6
1985	136.2	961.6	830.5	77.5	125.7	2,280.3	72.2	392.1	3,778.3	29.1	4,905.4	2,495.9	7,401.3
1990	86.7	839.9	830.3	85.6	110.9	2,573.9	66.0	316.6	3,983.4	17.6	4,927.5	3,117.9	8,045.4
1995	35.1	900.9	742.7	118.6	75.6	2,810.7	30.1	256.2	4,033.9	26.3	4,996.1	3,958.9	8,955.1
2000	28.7	1,588.0	1,273.3	134.0	152.5	3,569.7	35.4	364.0	5,528.9	29.5	7,175.1	4,083.1	11,258.3
2005	77.7	2,398.4	2,157.7	247.9	310.9	6,108.4	95.2	433.3	9,353.5	40.3	11,869.8	5,559.1	17,428.9
2006	76.8	2,309.5	2,389.5	271.4	347.2	7,121.8	103.8	454.7	10,688.5	40.8	13,115.6	6,287.7	19,403.3
2007	75.7	2,384.5	2,442.3	278.5	318.2	7,625.6	83.3	528.6	11,276.4	41.5	13,778.2	7,522.6	21,300.8
2008	84.2	2,527.2	2,958.1	370.3	477.2	8,702.3	102.5	661.1	13,271.5	50.9	15,933.8	8,236.7	24,170.5
2009	55.4	2,145.1	R 1,984.9	320.5	231.0	6,684.2	41.9	426.8	R 9,689.4	54.8	R 11,944.7	8,193.7	R 20,138.4
2010	51.5	1,922.3	2,510.5	385.6	588.4	7,355.8	67.6	R 504.4	R 11,412.3	69.3	R 13,455.4	8,301.0	R 21,756.4
2011	67.9	1,820.3	R 2,946.8	426.8	835.9	9,199.2	57.4	R 549.0	R 14,015.2	78.1	R 15,981.5	7,590.5	R 23,572.0
2012	60.5	1,642.1	R 2,890.1	290.1	821.3	9,677.4	31.9	R 530.6	R 14,241.4	74.2	R 16,018.1	6,973.7	R 22,991.8
2013	45.8	R 1,809.8	R 2,684.2	328.6	774.2	9,818.7	29.8	R 554.6	R 14,190.2	86.3	R 16,132.1	7,215.5	R 23,347.6
2014	45.0	R 2,042.8	R 2,953.1	410.3	702.0	9,180.9	6.9	R 625.0	R 13,878.2	R 89.4	R 16,055.5	7,464.6	R 23,520.1
2015	41.2	R 1,831.2	R 2,107.9	286.5	433.9	6,945.8	4.4	R 580.4	R 10,358.9	R 46.6	R 12,277.9	7,458.5	R 19,736.4
2016	30.9	R 1,644.7	R 1,571.2	238.4	362.7	6,065.9	2.1	R 476.9	R 8,717.1	R 42.1	R 10,434.7	7,492.2	R 17,926.9
2017	30.5	R 1,886.4	R 1,770.8	277.9	491.9	6,851.4	4.2	510.3	R 9,906.5	R 39.6	R 11,862.9	7,106.1	R 18,969.1
2018	29.4	R 1,912.8	R 2,256.5	328.0	R 664.3	7,472.1	10.6	516.2	R 11,247.8	R 43.9	R 13,233.9	7,182.0	R 20,415.9
2019	26.7	R 1,996.6	R 2,191.5	300.7	R 613.1	7,029.2	4.4	R 499.1	R 10,638.0	R 31.6	R 12,693.0	6,823.3	R 19,516.2
2020	20.7	R 1,882.7	R 1,742.7	267.4	R 329.9	4,833.6	16.1	R 429.2	R 7,618.9	R 19.0	R 9,541.5	6,425.6	R 15,967.1
2021	21.7	R 2,097.3	R 2,205.0	345.8	R 461.3	7,359.8	7.5	R 503.1	R 10,882.7	R 22.9	R 13,024.5	6,809.7	R 19,834.2
2022	27.4	R 2,647.8	R 3,281.9	366.1	R 958.3	8,887.6	13.5	R 649.6	R 14,156.9	R 41.5	R 16,873.7	7,950.3	R 24,824.0
2023	28.7	2,405.4	2,716.0	286.3	816.7	8,621.5	9.5	556.8	13,006.8	32.8	15,473.7	8,179.1	23,652.7

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. · Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2023, Maryland

Year	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
	Prices in dollars per million Btu									
1970	1.05	1.42	1.42	2.53	1.50	1.49	0.73	1.44	7.02	2.31
1975	1.75	2.30	2.71	4.61	3.37	2.90	1.45	2.55	12.65	4.57
1980	3.18	4.38	7.06	9.81	8.55	7.29	3.70	5.63	17.32	8.41
1985	3.28	7.01	8.24	11.42	8.26	8.47	4.19	7.37	21.32	11.43
1990	3.36	6.28	8.47	12.58	4.99	8.65	3.53	6.98	21.17	12.36
1995	3.11	6.45	7.09	13.85	4.43	7.81	2.87	6.70	24.71	13.65
2000	2.81	9.47	10.24	17.13	8.62	10.92	4.37	9.72	23.31	15.07
2005	4.99	14.12	16.12	22.78	14.97	17.24	6.83	14.85	24.79	19.19
2006	4.71	15.78	18.22	26.61	17.77	19.83	7.87	16.73	28.47	22.26
2007	4.60	14.63	20.34	28.55	19.84	22.16	8.70	16.27	34.86	24.74
2008	—	15.52	25.21	33.01	26.42	27.32	10.72	18.23	40.56	28.30
2009	—	13.25	19.06	28.66	21.00	21.77	8.05	15.07	43.91	27.77
2010	—	12.13	22.55	32.57	23.88	25.33	9.50	15.19	41.97	27.36
2011	—	11.77	26.17	35.57	28.00	29.32	11.42	15.64	39.02	26.47
2012	—	11.73	29.76	34.45	30.08	31.15	12.71	15.66	37.62	26.37
2013	—	11.19	28.82	34.04	30.25	R 30.35	12.45	15.06	38.85	25.78
2014	—	11.59	28.12	36.24	30.42	30.62	12.14	15.69	39.94	25.99
2015	—	11.40	19.65	29.53	16.97	22.38	8.37	13.90	40.50	25.71
2016	—	10.97	16.89	28.54	13.53	20.91	7.15	12.71	41.70	26.70
2017	—	12.38	18.79	31.93	16.92	R 23.66	8.00	14.24	40.91	R 26.92
2018	—	11.29	20.69	34.46	24.47	R 25.22	8.85	13.90	38.97	25.34
2019	—	12.01	21.48	30.57	22.82	25.25	8.51	14.15	38.44	25.60
2020	—	12.56	18.43	27.79	14.82	22.14	7.04	R 14.18	38.12	R 25.69
2021	—	14.16	20.73	33.69	23.37	R 24.93	8.45	R 16.25	38.46	R 26.93
2022	—	16.33	31.10	36.46	39.09	R 32.83	13.07	R 19.48	42.38	R 30.15
2023	—	16.70	28.72	35.36	34.86	30.79	11.95	19.45	48.64	33.49
	Expenditures in million dollars									
1970	1.2	106.1	67.9	7.9	18.4	94.2	1.6	203.1	184.2	387.3
1975	0.4	161.4	133.3	17.8	19.3	170.4	3.9	336.1	416.8	752.8
1980	0.6	304.1	361.7	22.5	40.2	424.5	17.4	746.6	716.3	1,462.9
1985	2.2	496.1	269.1	35.0	52.1	356.3	24.1	878.5	1,041.6	1,920.2
1990	0.8	428.5	251.2	42.5	10.9	304.6	10.8	744.7	1,379.8	2,124.5
1995	3.0	506.5	203.2	70.8	13.4	287.4	13.2	810.1	1,874.7	2,684.8
2000	0.6	822.3	289.9	71.6	24.7	386.1	15.4	1,224.5	1,905.0	3,129.4
2005	0.3	1,269.4	384.2	142.6	52.4	579.2	12.2	1,861.1	2,405.2	4,266.3
2006	0.4	1,167.2	358.0	143.9	44.0	545.9	12.5	1,726.0	2,613.6	4,339.6
2007	0.4	1,266.0	394.3	170.9	25.3	590.5	15.3	1,872.2	3,353.2	5,225.4
2008	—	1,304.6	478.3	235.2	13.7	727.2	21.0	2,052.8	3,756.6	5,809.4
2009	—	1,135.5	363.0	216.6	13.9	593.5	31.4	1,760.3	4,037.2	5,797.5
2010	—	1,042.8	446.5	252.5	19.8	718.8	39.8	1,801.4	4,142.9	5,944.4
2011	—	941.8	405.4	281.8	12.2	699.4	46.4	1,687.6	3,634.4	5,322.0
2012	—	856.1	396.4	195.7	5.0	597.1	43.1	1,496.3	3,424.6	4,920.9
2013	—	972.6	R 460.6	226.5	5.4	R 692.5	55.1	R 1,720.2	3,638.1	R 5,358.3
2014	—	1,105.5	R 524.1	300.6	10.3	R 835.0	54.4	R 1,995.0	3,746.1	R 5,741.1
2015	—	996.8	R 381.7	224.6	4.3	R 610.6	18.9	R 1,626.3	3,786.9	R 5,413.2
2016	—	876.8	R 195.5	181.4	3.6	R 380.5	13.2	R 1,270.5	3,886.4	R 5,157.0
2017	—	983.0	R 196.4	200.4	2.5	R 399.3	R 14.9	R 1,397.2	3,640.8	R 5,037.9
2018	—	1,018.6	R 300.7	245.9	3.2	R 549.8	R 20.4	R 1,588.9	3,741.6	R 5,330.5
2019	—	1,027.2	R 219.5	223.2	3.3	R 446.1	R 18.4	R 1,491.6	3,611.3	R 5,103.0
2020	—	1,010.0	R 198.2	202.1	2.5	R 402.9	R 14.0	R 1,426.8	3,551.3	R 4,978.1
2021	—	1,130.0	R 291.6	228.5	4.0	R 524.2	R 17.3	R 1,671.6	3,669.2	R 5,340.8
2022	—	1,400.6	R 454.0	244.3	6.2	R 704.5	R 33.8	R 2,138.8	4,057.9	R 6,196.7
2023	—	1,242.9	385.4	206.5	9.3	601.2	26.2	1,870.4	4,333.2	6,203.5

[a] Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2023, Maryland

Year	Primary energy										Electricity [j]	Total energy [g,h,i]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f,g]	Total [g,h,i]		
	Prices in dollars per million Btu											
1970	0.07	1.09	1.12	1.01	0.88	2.85	0.43	0.93	0.73	0.99	6.86	2.59
1975	1.06	1.96	2.39	2.66	2.53	4.86	1.83	2.32	1.45	2.14	12.49	5.72
1980	1.19	3.88	6.39	4.90	6.24	9.93	4.16	5.78	3.70	4.73	18.41	9.72
1985	1.33	6.17	6.37	10.91	8.26	9.51	4.41	6.78	4.19	6.14	22.00	12.88
1990	1.14	5.21	5.89	10.24	4.99	10.33	3.13	6.00	2.07	5.43	19.91	11.84
1995	1.25	4.93	4.39	10.12	4.43	10.49	2.74	4.98	1.74	4.58	20.40	12.61
2000	1.26	7.82	7.60	12.53	8.62	12.01	4.32	8.21	2.27	7.65	19.38	13.84
2005	2.30	11.42	13.53	17.66	14.97	18.23	7.58	14.19	3.14	11.62	26.28	17.54
2006	2.43	12.81	15.44	19.59	17.77	20.91	8.60	16.28	2.92	13.03	30.96	22.92
2007	2.45	11.86	16.82	21.36	19.84	22.38	9.69	17.97	3.27	12.26	33.93	24.16
2008	3.60	12.67	24.49	26.01	26.42	26.15	14.63	24.94	3.74	13.81	37.43	26.63
2009	3.30	10.49	14.99	20.99	21.00	18.99	8.60	16.57	3.62	11.14	35.12	24.06
2010	2.79	9.62	18.34	24.05	23.88	22.71	12.94	20.04	3.88	10.91	34.45	23.97
2011	3.38	10.01	23.89	27.41	28.00	28.85	18.83	24.95	4.12	11.88	33.05	23.61
2012	3.11	9.64	24.64	21.74	30.08	29.92	20.07	24.07	3.65	11.39	30.58	22.10
2013	3.10	9.64	25.72	21.41	30.25	29.07	18.99	24.68	3.73	R 11.25	31.31	22.02
2014	3.01	9.99	25.74	22.65	30.42	28.11	15.04	25.09	R 5.02	R 11.85	32.69	22.71
2015	3.59	9.28	12.48	13.65	16.97	20.37	7.97	R 15.95	R 3.66	10.57	32.24	21.76
2016	—	8.51	11.54	12.84	13.53	18.41	6.23	15.09	R 3.18	R 9.65	32.22	21.39
2017	—	9.81	13.32	16.80	16.92	21.02	7.96	R 17.77	R 3.21	11.19	31.51	21.57
2018	—	9.16	17.32	18.27	24.47	23.02	10.46	20.10	R 3.41	11.14	30.58	20.84
2019	—	9.70	16.04	14.56	22.82	21.71	—	18.29	R 3.48	11.35	29.21	20.15
2020	—	10.20	10.81	13.78	14.82	18.76	—	R 15.07	R 3.24	11.11	28.50	R 19.80
2021	—	11.53	16.81	21.11	23.37	25.07	11.71	R 21.31	R 5.21	R 13.63	30.06	R 22.03
2022	—	13.59	30.96	22.40	39.09	32.87	18.94	30.43	R 7.62	17.01	37.08	26.86
2023	—	13.50	23.51	18.14	34.86	29.24	17.13	25.61	8.75	16.02	37.43	26.85
	Expenditures in million dollars											
1970	0.1	28.8	20.9	1.4	0.3	1.5	4.1	28.3	(s)	57.2	148.5	205.7
1975	0.6	50.1	45.8	4.7	0.5	3.1	13.4	67.5	0.1	118.2	365.3	483.5
1980	0.8	113.1	106.6	5.1	0.7	6.3	30.3	149.0	0.4	263.4	589.6	853.0
1985	3.1	153.9	80.4	15.2	4.2	8.5	7.0	115.3	0.6	272.9	722.3	995.2
1990	1.1	128.7	85.4	15.8	1.3	12.6	10.8	125.8	1.6	257.2	748.9	1,006.1
1995	8.0	237.0	79.2	23.6	5.3	1.7	2.1	111.8	2.9	359.8	1,652.0	2,011.8
2000	2.4	449.8	114.2	23.8	17.7	7.3	2.4	165.4	3.8	621.3	1,753.1	2,374.4
2005	1.6	834.5	140.5	49.2	10.7	3.2	4.7	208.2	6.1	1,050.5	1,607.8	2,658.3
2006	2.3	834.9	161.4	57.3	6.3	3.7	2.6	231.3	6.3	1,074.7	3,140.5	4,215.3
2007	2.0	871.5	115.6	48.2	4.6	3.9	1.1	173.5	6.6	1,053.6	3,553.2	4,606.8
2008	3.2	923.8	164.6	84.0	1.5	4.6	1.0	255.8	8.2	1,191.0	3,831.4	5,022.3
2009	2.3	751.3	137.9	63.8	3.7	3.3	0.2	208.9	7.8	970.4	3,572.0	4,542.4
2010	1.3	666.8	153.2	80.4	3.9	3.9	0.4	241.8	9.2	919.1	3,617.0	4,536.2
2011	2.1	694.6	198.5	87.2	3.7	4.9	0.5	294.8	10.6	1,002.1	3,467.9	4,470.0
2012	1.6	641.5	210.4	56.2	0.8	5.1	0.1	272.6	10.8	926.4	3,141.3	4,067.7
2013	0.7	715.7	R 199.9	58.2	0.8	5.1	0.4	R 264.3	11.4	R 992.2	3,201.7	R 4,193.9
2014	0.6	787.3	R 237.2	63.3	3.1	4.7	0.3	R 308.6	R 10.7	R 1,107.2	3,324.6	R 4,431.8
2015	(s)	687.9	R 110.6	34.7	0.8	172.3	0.8	R 319.3	R 6.3	1,013.6	3,295.7	4,309.3
2016	—	630.3	R 72.4	32.9	1.1	157.5	0.2	R 264.2	R 5.4	R 899.9	3,262.0	R 4,161.9
2017	—	742.3	R 74.3	51.7	0.8	182.6	0.3	R 309.6	R 4.0	R 1,055.9	3,106.6	R 4,162.5
2018	—	739.9	R 128.7	48.1	0.9	203.7	0.6	R 381.9	R 4.7	R 1,126.5	3,082.5	R 4,209.0
2019	—	774.2	R 128.1	50.5	1.5	193.5	—	R 373.6	R 4.3	R 1,152.1	2,879.6	R 4,031.7
2020	—	717.5	R 74.8	37.5	1.0	168.2	—	R 281.5	R 4.3	R 1,003.4	2,572.2	R 3,575.5
2021	—	792.4	R 123.4	70.9	1.2	226.8	0.4	R 422.6	R 4.9	R 1,219.9	2,814.1	R 4,034.0
2022	—	1,043.7	R 232.8	74.6	1.8	305.3	0.6	R 615.2	R 6.7	R 1,665.5	3,494.9	R 5,160.4
2023	—	953.4	162.4	48.3	2.8	272.9	0.5	486.7	5.5	1,445.7	3,456.5	4,902.1

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[g] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[j] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: Expenditure totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2023, Maryland

Year	Primary energy												Electricity [i]	Total energy [f,g,h]
	Coal			Natural gas [a]	Petroleum						Biomass	Total [f,g,h]		
	Coking coal	Steam coal	Total		Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e,f]			
	Prices in dollars per million Btu													
1970	0.58	0.07	0.50	0.67	0.81	1.07	2.85	0.43	1.30	0.84	1.42	0.64	3.80	0.91
1975	2.14	1.06	2.05	1.35	2.34	2.89	4.86	2.08	2.57	2.41	1.42	2.05	8.42	2.78
1980	2.38	1.19	2.15	3.19	5.60	5.34	9.93	4.37	6.50	5.78	1.42	3.61	11.65	4.96
1985	1.88	1.33	1.75	5.51	6.23	12.25	9.51	4.41	6.34	6.38	1.42	4.41	13.92	6.31
1990	1.71	1.14	1.48	4.45	5.91	11.40	10.33	3.13	5.09	5.31	0.98	3.83	14.94	6.57
1995	—	1.25	1.25	3.13	4.57	9.06	10.49	2.74	4.66	4.84	1.24	3.51	12.39	5.27
2000	—	1.26	1.26	7.61	7.34	13.23	12.01	4.32	5.71	6.34	1.43	5.71	12.13	7.00
2005	—	2.30	2.30	11.61	13.26	19.49	18.23	7.58	6.50	9.04	2.71	7.51	20.56	12.06
2006	—	2.43	2.43	12.40	15.22	21.68	20.91	8.60	13.31	14.67	2.68	9.99	23.85	12.15
2007	—	2.45	2.45	11.17	16.65	25.34	22.38	9.69	12.44	14.46	2.54	9.82	27.59	12.55
2008	—	2.84	2.84	13.00	23.75	30.74	26.15	14.63	18.27	20.22	2.87	12.89	30.43	15.57
2009	—	2.40	2.40	10.33	14.14	25.39	18.99	8.60	15.80	15.83	2.70	10.02	29.20	13.29
2010	—	2.21	2.21	8.82	17.63	25.14	22.71	12.94	R 18.06	R 18.82	2.73	R 10.19	28.07	R 13.21
2011	—	3.04	3.04	8.38	23.68	29.02	28.85	18.83	R 21.50	R 23.27	2.85	R 12.19	25.69	R 14.51
2012	—	2.89	2.89	7.72	24.97	22.37	29.92	20.07	R 21.58	R 23.47	2.70	R 12.07	23.71	R 14.03
2013	—	2.93	2.93	8.12	24.34	21.99	29.07	18.99	R 22.57	R 23.72	2.69	R 13.12	24.51	R 15.05
2014	—	2.84	2.84	9.44	22.76	23.43	28.11	15.04	R 21.94	R 22.92	3.27	R 13.59	26.48	R 15.59
2015	—	2.74	2.74	9.19	14.54	12.90	20.37	7.97	R 18.63	R 17.58	3.17	R 11.12	25.00	R 13.33
2016	—	2.55	2.55	8.37	11.39	11.94	18.41	6.23	R 15.32	R 14.59	3.09	R 9.63	23.11	R 11.82
2017	—	2.48	2.48	9.40	15.00	15.95	21.02	7.96	16.36	16.51	3.02	10.82	24.53	13.04
2018	—	2.47	2.47	8.75	16.15	17.41	23.02	10.46	20.34	19.61	2.73	11.66	24.11	13.80
2019	—	2.63	2.63	9.63	14.95	13.68	21.71	9.97	R 19.91	18.55	2.71	R 12.25	22.86	14.07
2020	—	2.30	2.30	8.50	10.67	12.88	18.76	—	R 18.54	R 16.53	2.63	R 11.39	22.89	R 13.43
2021	—	2.28	2.28	8.77	14.67	20.15	25.07	11.71	R 20.94	R 19.95	2.59	R 13.09	24.79	R 15.11
2022	—	2.91	2.91	11.76	26.68	21.38	32.87	18.94	R 27.66	R 27.54	R 2.60	R 18.24	29.33	R 20.28
2023	—	3.35	3.35	12.82	23.18	17.08	29.24	17.13	24.72	24.41	2.65	17.18	29.15	19.41
	Expenditures in million dollars													
1970	79.6	1.8	81.4	29.8	14.8	2.4	3.9	17.8	39.5	78.4	5.5	195.1	109.7	304.8
1975	200.6	8.8	209.4	58.6	44.4	9.1	7.5	62.8	91.2	215.0	5.2	488.2	260.2	748.4
1980	168.9	21.2	190.1	176.9	104.1	21.9	7.6	69.9	221.0	424.5	3.8	795.3	518.5	1,313.8
1985	107.4	23.5	131.0	311.7	103.2	24.5	14.9	28.3	300.8	471.7	4.5	918.9	727.4	1,646.3
1990	57.6	27.1	84.8	282.6	70.9	24.9	16.1	24.1	261.2	397.2	5.2	769.8	984.3	1,754.0
1995	—	24.1	24.1	157.2	46.2	22.0	17.9	12.6	195.5	294.2	10.1	485.6	425.2	910.8
2000	—	25.7	25.7	314.9	90.1	33.8	15.7	14.9	273.9	428.4	10.4	779.4	416.7	1,196.1
2005	—	75.7	75.7	289.3	159.1	52.7	92.4	40.4	300.3	644.9	22.0	1,031.8	1,509.2	2,541.1
2006	—	74.1	74.1	296.0	188.7	66.6	112.1	41.0	321.4	729.9	22.0	1,122.0	493.0	1,615.0
2007	—	73.3	73.3	236.6	148.5	55.7	119.7	39.8	407.3	771.0	19.7	1,100.6	563.0	1,663.6
2008	—	81.0	81.0	284.7	236.5	43.0	118.2	47.5	549.6	994.8	21.7	1,382.2	586.5	1,968.8
2009	—	53.1	53.1	256.0	96.3	35.3	82.1	17.6	323.3	554.5	15.5	879.2	526.6	1,405.7
2010	—	50.1	50.1	211.5	109.1	51.6	87.2	14.8	R 324.0	R 586.6	20.3	R 868.6	486.9	R 1,355.6
2011	—	65.8	65.8	182.7	173.6	56.5	115.8	29.9	R 361.0	R 736.8	21.1	R 1,006.5	438.9	R 1,445.4
2012	—	58.9	58.9	141.2	172.9	37.1	114.2	10.1	R 359.7	R 694.1	20.3	R 914.4	364.1	R 1,278.5
2013	—	45.1	45.1	118.5	135.3	42.5	115.7	7.5	R 384.4	R 685.4	19.8	R 868.7	329.9	R 1,198.6
2014	—	44.4	44.4	146.5	153.2	44.6	117.4	3.6	R 441.5	R 760.3	24.3	R 975.5	347.7	R 1,323.2
2015	—	41.2	41.2	143.2	93.7	25.6	54.7	0.8	R 396.6	R 571.5	21.4	R 777.3	331.2	R 1,108.5
2016	—	30.9	30.9	135.5	69.7	22.3	52.0	0.8	R 312.8	R 457.7	23.4	R 647.5	301.4	R 948.9
2017	—	30.5	30.5	154.9	79.6	22.6	60.2	0.7	357.8	521.0	20.8	727.2	317.9	1,045.1
2018	—	29.4	29.4	148.3	88.3	29.0	67.2	0.4	357.7	542.6	18.8	739.1	318.4	1,057.5
2019	—	26.7	26.7	184.6	99.0	23.3	63.1	0.4	R 340.7	R 526.5	8.9	R 746.7	290.0	R 1,036.7
2020	—	20.7	20.7	151.1	57.6	25.6	55.0	—	R 298.1	R 436.3	0.7	R 608.8	264.1	R 872.9
2021	—	21.7	21.7	170.4	87.0	43.7	72.8	0.7	R 348.8	R 553.0	0.7	R 745.8	294.4	R 1,040.2
2022	—	27.4	27.4	197.8	160.1	42.8	99.3	1.1	R 467.3	R 770.5	R 1.1	R 996.9	360.4	R 1,357.3
2023	—	28.7	28.7	201.1	135.8	27.9	88.0	0.8	399.4	651.9	1.1	882.7	343.6	1,226.4

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[i] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET6. Transportation sector energy price and expenditure estimates, selected years, 1970-2023, Maryland

Year	Primary energy											Electricity [g]	Total energy [f]
			Petroleum										
	Coal	Natural gas[a]	Aviation gasoline	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Lubricants	Motor gasoline [e]	Residual fuel oil	Total	Total [f]		
	Prices in dollars per million Btu												
1970	0.07	—	2.17	1.32	1.01	0.73	5.08	2.85	0.39	2.30	2.30	—	2.30
1975	1.06	—	3.45	2.81	2.66	2.03	7.48	4.86	1.61	4.30	4.30	—	4.30
1980	—	—	9.02	7.69	4.90	6.46	14.36	9.93	3.53	8.92	8.92	12.62	8.92
1985	—	—	9.99	8.64	12.30	5.80	18.18	9.51	3.88	9.02	9.02	17.74	9.02
1990	—	—	9.32	8.97	12.30	5.47	20.61	10.33	2.72	9.63	9.63	14.30	9.64
1995	—	2.98	8.36	8.14	12.28	3.89	21.75	10.49	2.64	9.70	9.70	15.01	9.70
2000	—	5.40	10.87	10.93	16.26	6.55	23.20	12.01	3.67	11.45	11.45	15.76	11.45
2005	—	8.25	18.56	17.46	19.62	12.57	35.22	18.23	6.88	17.65	17.64	22.65	17.65
2006	—	12.38	22.31	19.53	21.80	14.78	43.88	20.91	7.84	20.20	20.18	24.70	20.20
2007	—	11.00	23.70	20.76	23.90	15.93	47.16	22.38	9.22	21.74	21.72	29.75	21.75
2008	—	14.16	27.23	27.81	27.63	21.94	55.12	26.15	11.27	26.17	26.14	34.50	26.17
2009	—	10.81	20.32	17.97	22.16	12.19	56.07	18.99	9.06	18.58	18.58	30.76	18.63
2010	—	5.84	25.19	21.61	26.01	16.28	58.80	22.71	11.47	22.08	22.07	28.99	22.10
2011	—	4.95	31.64	27.61	29.27	22.51	69.54	28.85	16.83	28.27	28.25	26.46	28.25
2012	—	14.61	33.04	28.51	23.67	23.08	72.11	29.92	19.15	29.31	29.30	24.30	29.28
2013	—	R 14.32	32.71	27.90	23.54	21.95	69.42	29.07	17.80	28.50	28.49	24.82	28.47
2014	—	R 14.17	33.16	27.74	24.97	20.61	69.44	28.11	16.00	27.68	27.67	24.92	27.66
2015	—	R 13.58	24.86	20.37	16.54	11.99	67.28	20.37	8.60	19.95	19.95	24.45	19.97
2016	—	R 13.44	21.62	16.98	15.94	9.49	65.78	18.41	6.25	17.63	17.63	23.00	R 17.66
2017	—	R 15.54	24.13	19.66	20.07	12.04	67.25	21.02	8.83	20.16	R 20.16	22.68	20.17
2018	—	R 15.44	27.04	23.40	21.51	15.86	72.37	23.02	11.04	22.60	22.59	21.80	22.59
2019	—	R 14.78	25.57	22.75	17.97	14.64	74.92	21.71	10.40	R 21.44	21.43	21.59	21.43
2020	—	R 14.71	22.34	19.55	16.96	9.89	75.34	18.76	7.58	18.28	18.28	22.83	18.30
2021	—	R 15.04	28.86	23.87	24.20	14.62	81.25	25.07	11.46	24.23	24.23	22.21	24.22
2022	—	R 17.33	36.02	37.24	25.10	27.03	97.37	32.87	20.17	R 33.37	R 33.36	27.69	R 33.33
2023	—	19.23	32.62	31.59	21.20	21.46	105.48	29.24	16.96	29.11	29.10	32.90	29.11
	Expenditures in million dollars												
1970	(s)	—	3.4	32.1	0.1	18.1	9.2	551.2	9.5	623.7	623.7	—	623.7
1975	(s)	—	3.6	85.9	0.5	33.5	13.9	1,104.5	28.5	1,270.4	1,270.4	—	1,270.4
1980	—	—	7.9	262.0	0.5	125.9	27.0	2,282.4	100.1	2,805.9	2,805.9	1.0	2,806.8
1985	—	—	3.8	377.7	2.8	125.7	31.1	2,256.9	36.9	2,835.0	2,835.0	4.5	2,839.5
1990	—	—	3.5	422.8	2.4	110.9	39.7	2,545.3	31.2	3,155.8	3,155.8	5.0	3,160.8
1995	—	0.2	2.0	414.1	2.3	75.6	40.0	2,791.1	15.4	3,340.5	3,340.6	7.0	3,347.6
2000	—	0.9	2.2	779.1	4.7	152.5	45.5	3,546.8	18.2	4,549.0	4,550.0	8.4	4,558.4
2005	—	5.2	11.5	1,473.9	3.5	310.9	58.3	6,012.9	50.2	7,921.2	7,926.4	36.9	7,963.3
2006	—	11.4	12.1	1,681.3	3.7	347.2	70.8	7,006.0	60.2	9,181.3	9,192.8	40.6	9,233.4
2007	—	10.4	12.8	1,783.9	3.7	318.2	78.6	7,501.9	42.3	9,741.4	9,751.8	53.2	9,805.0
2008	—	14.1	11.0	2,078.7	8.0	477.2	85.3	8,579.5	53.9	11,293.7	11,307.8	62.2	11,370.0
2009	—	2.3	8.0	R 1,387.7	4.8	231.0	78.0	6,598.8	24.2	R 8,332.5	R 8,334.8	58.0	R 8,392.8
2010	—	1.2	5.7	1,801.7	1.1	588.4	151.1	7,264.7	52.4	9,865.0	9,866.2	54.1	9,920.3
2011	—	1.1	6.6	R 2,169.3	1.3	835.9	165.5	9,078.5	27.0	R 12,284.1	R 12,285.2	49.4	R 12,334.6
2012	—	3.4	6.7	R 2,110.5	1.0	821.3	158.3	9,558.1	21.7	R 12,677.6	R 12,681.0	43.8	R 12,724.8
2013	—	R 3.0	5.7	R 1,888.5	1.4	774.2	158.3	9,698.0	22.0	R 12,548.0	R 12,551.0	45.8	R 12,596.8
2014	—	R 3.5	8.1	R 2,038.6	1.7	702.0	162.0	9,058.8	3.0	R 11,974.3	R 11,977.8	46.2	R 12,024.1
2015	—	R 3.2	4.4	R 1,521.9	1.6	433.9	174.2	6,718.8	2.8	R 8,857.5	8,860.7	44.7	8,905.4
2016	—	R 2.0	4.0	R 1,233.6	1.8	362.7	155.3	5,856.3	1.1	R 7,614.7	R 7,616.8	42.3	R 7,659.1
2017	—	R 6.2	4.7	R 1,420.6	3.1	491.9	144.4	6,608.6	3.2	R 8,676.5	R 8,682.6	40.9	R 8,723.6
2018	—	R 6.0	6.2	R 1,738.9	5.0	R 664.3	148.2	7,201.3	9.6	R 9,773.4	R 9,779.4	39.4	R 9,818.9
2019	—	R 10.6	5.9	1,744.9	3.6	R 613.1	R 147.7	6,772.6	4.1	R 9,291.8	R 9,302.5	42.4	R 9,344.8
2020	—	R 4.2	4.7	R 1,412.1	2.2	R 329.9	R 123.0	4,610.4	16.1	R 6,498.3	R 6,502.5	38.1	R 6,540.6
2021	—	R 4.5	6.6	R 1,703.0	2.7	R 461.3	R 142.6	7,060.2	6.5	R 9,382.8	R 9,387.3	32.0	R 9,419.2
2022	—	5.8	8.5	R 2,435.1	4.3	R 958.3	R 165.8	8,483.0	11.8	R 12,066.8	R 12,072.5	37.1	R 12,109.6
2023	—	8.0	7.3	2,032.4	3.7	816.7	138.0	8,260.7	8.2	11,266.9	11,274.9	45.8	11,320.7

[a] Transportation use of natural gas as vehicle fuel only.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET7. Electric power sector price and expenditure estimates, selected years, 1970-2023, Maryland

Year	Coal	Natural gas [a]	Petroleum: Distillate fuel oil	Petroleum: Petroleum coke	Petroleum: Residual fuel oil	Petroleum: Total	Nuclear fuel	Biomass: Wood and waste [b]	Electricity imports [c]	Total energy [d]
	Prices in dollars per million Btu									
1970	0.39	0.32	0.48	—	0.44	0.44	—	—	—	0.40
1975	1.30	1.10	2.18	—	1.85	1.86	0.23	—	—	1.36
1980	1.54	2.50	5.97	—	4.21	4.41	0.44	—	—	1.66
1985	1.75	3.73	5.53	—	4.02	4.22	0.59	0.79	—	1.66
1990	1.65	2.45	5.29	—	3.10	3.26	0.61	0.46	—	1.87
1995	1.50	2.16	3.76	—	2.62	2.86	0.48	0.70	—	1.26
2000	1.33	4.42	5.87	—	3.83	4.08	0.43	0.67	—	1.39
2005	1.92	9.88	11.60	—	6.85	7.67	0.42	2.28	—	2.26
2006	2.27	7.45	13.88	—	7.63	10.20	0.52	2.32	—	2.09
2007	2.12	7.55	15.22	—	8.90	11.44	0.46	2.42	—	2.09
2008	3.71	10.82	20.32	—	11.61	16.90	0.48	2.66	—	3.08
2009	3.03	5.17	13.07	—	9.21	11.28	0.55	2.20	—	2.30
2010	3.47	5.58	16.34	—	12.54	15.47	0.64	2.40	13.31	2.76
2011	3.72	5.33	21.93	—	18.65	21.05	0.67	2.44	11.53	2.77
2012	3.62	3.16	22.91	—	21.15	22.60	0.73	2.21	—	2.50
2013	3.43	4.79	22.83	—	19.76	22.34	0.77	2.26	11.49	2.52
2014	2.97	5.10	22.19	—	18.15	21.03	0.72	2.73	13.31	2.45
2015	2.87	3.86	14.57	—	9.44	12.81	0.72	2.62	10.54	2.15
2016	2.85	2.82	10.74	—	8.08	10.25	0.71	2.54	8.74	1.99
2017	2.67	3.49	12.69	—	10.61	12.42	0.71	2.40	9.18	1.86
2018	2.53	3.86	16.07	—	12.74	15.42	0.68	2.22	10.74	2.22
2019	2.66	3.12	15.06	—	12.23	14.46	0.65	2.33	—	1.88
2020	2.38	2.38	11.54	—	9.01	11.27	0.62	1.80	—	1.49
2021	2.41	4.34	16.01	—	13.58	15.54	0.73	2.39	—	2.26
2022	3.12	R 8.28	25.75	—	23.47	25.11	0.59	2.69	—	R 3.65
2023	3.55	2.45	22.44	—	19.42	20.82	0.59	2.93	—	1.64
	Expenditures in million dollars									
1970	57.3	3.8	2.6	—	27.4	30.0	—	—	—	91.0
1975	122.7	0.5	8.7	—	209.3	218.0	11.3	—	—	352.5
1980	224.9	13.4	38.6	—	215.5	254.1	52.5	—	—	544.9
1985	311.6	5.2	26.7	—	129.7	156.4	61.8	0.1	—	535.1
1990	375.4	53.0	18.4	—	135.4	153.8	8.1	3.4	—	593.6
1995	395.5	42.1	14.8	—	37.6	52.4	65.4	7.1	—	562.5
2000	385.5	133.2	19.9	—	89.8	109.7	62.6	8.2	—	699.2
2005	566.2	212.2	80.7	—	229.4	310.2	64.7	16.7	—	1,169.9
2006	665.1	170.3	36.2	—	28.5	64.7	75.4	17.6	—	993.1
2007	631.3	182.1	67.3	—	58.4	125.7	69.7	18.2	—	1,026.9
2008	1,039.0	222.2	59.9	—	22.2	82.1	73.1	20.4	—	1,436.8
2009	740.2	97.8	26.5	—	16.2	42.7	84.4	16.3	—	981.4
2010	842.7	177.3	48.3	—	10.9	59.2	92.9	18.2	5.0	1,195.4
2011	813.4	115.0	44.0	—	13.6	57.7	101.1	17.0	8.0	1,112.2
2012	620.6	160.7	28.2	—	5.6	33.8	103.3	16.3	—	934.7
2013	574.9	124.3	40.0	—	6.5	46.6	114.3	17.4	11.7	889.1
2014	550.2	109.2	83.2	—	27.7	110.9	108.7	21.5	8.2	908.6
2015	433.9	161.5	25.5	—	8.6	34.1	110.1	20.4	6.9	766.8
2016	429.6	147.0	18.4	—	3.1	21.5	109.6	19.3	3.5	730.4
2017	252.8	185.1	15.5	—	1.9	17.4	112.9	18.7	0.1	587.1
2018	284.3	390.7	41.2	—	8.0	49.2	106.3	17.1	0.6	848.2
2019	178.6	312.9	11.9	—	2.6	14.6	101.7	15.5	—	623.3
2020	96.8	235.9	10.7	—	1.0	11.7	97.7	11.5	—	453.5
2021	144.1	445.9	14.8	—	3.0	17.8	114.1	16.0	—	737.9
2022	163.7	R 833.7	35.7	—	12.7	48.4	90.9	15.6	—	R 1,152.3
2023	77.3	283.1	11.5	—	11.6	23.1	92.2	17.2	—	492.8

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[c] Electricity imported from Canada and Mexico.
[d] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET1. Primary energy, electricity, and total energy price and expenditure estimates, selected years, 1970-2023, Massachusetts

Year	Primary energy														Electric power sector [i,k,l]	Electricity [m]	Total energy [h,i,j]
	Coal				Petroleum								Biomass				
	Coking coal	Steam coal	Total	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Nuclear fuel	Wood and waste [g,h]	Total [h,i,j,k]			
	Prices in dollars per million Btu																
1970	—	0.55	0.55	1.58	1.34	2.19	0.75	2.86	0.39	1.66	1.24	0.20	1.13	1.25	0.37	7.29	1.89
1975	—	1.57	1.57	2.86	2.74	3.68	2.10	4.73	1.95	3.42	2.95	0.18	1.29	2.82	1.66	13.93	4.12
1980	—	1.95	1.95	4.88	6.87	6.60	6.51	9.69	3.84	8.30	6.59	0.41	2.56	5.97	3.41	21.13	8.76
1985	—	2.01	2.01	6.25	8.00	12.13	6.04	9.18	4.04	10.03	7.29	0.60	2.69	6.23	3.00	24.34	9.93
1990	—	1.76	1.76	5.48	7.94	12.34	5.83	9.53	2.88	9.54	7.21	0.62	1.26	5.92	2.16	25.90	10.40
1995	—	1.69	1.69	5.24	6.62	11.70	4.06	10.28	2.67	10.40	7.79	0.42	1.21	5.98	1.79	29.57	11.08
2000	—	1.75	1.75	7.45	9.92	15.09	6.86	12.65	3.96	10.88	10.24	0.44	1.31	8.05	2.86	27.75	13.03
2005	—	3.08	3.08	12.40	15.99	21.69	12.74	18.13	7.29	16.36	15.82	0.44	2.59	12.80	5.92	35.70	19.51
2006	—	2.80	2.80	12.14	18.39	23.74	14.92	20.70	7.99	19.28	18.87	0.41	2.64	14.15	4.77	45.28	23.41
2007	—	2.80	2.80	12.15	19.89	26.46	16.47	22.55	9.45	24.84	20.64	0.57	2.86	15.05	5.42	44.44	24.18
2008	—	2.97	2.97	13.75	25.89	31.34	23.06	26.45	10.85	38.34	25.44	0.48	3.29	17.96	6.49	47.58	27.38
2009	—	3.49	3.49	10.11	17.89	27.37	12.87	19.51	8.00	21.44	18.53	0.57	3.24	13.18	4.02	45.27	22.08
2010	—	3.21	3.21	9.40	21.52	31.09	16.41	22.83	12.84	R 24.69	R 21.98	0.65	3.71	R 14.65	4.20	41.79	R 23.27
2011	—	3.72	3.72	9.06	26.53	35.89	22.87	29.29	17.34	R 28.35	R 27.91	0.70	4.12	R 17.84	4.29	41.36	R 26.16
2012	—	3.76	3.76	7.98	28.88	33.05	23.36	30.31	17.31	R 29.62	R 29.26	0.77	4.00	R 18.21	3.04	40.41	R 26.87
2013	—	4.25	4.25	9.49	28.34	32.27	22.59	29.51	16.14	R 30.14	R 28.53	0.84	4.34	R 18.67	4.73	42.53	R 26.51
2014	—	4.33	4.33	R 10.82	27.53	35.19	21.02	28.40	14.18	R 29.27	R 27.46	0.80	4.56	R 18.57	5.08	45.00	R 26.53
2015	—	3.56	3.56	8.71	19.16	28.26	12.36	20.10	7.32	R 26.64	R 19.38	0.71	R 3.64	R 13.68	3.65	49.54	R 22.37
2016	—	4.08	4.08	7.52	16.21	28.26	10.41	18.14	5.84	R 22.75	R 17.08	0.67	R 3.11	R 11.98	2.79	48.30	R 20.65
2017	—	4.35	4.35	8.18	18.09	30.92	12.30	20.51	7.52	22.90	19.13	0.76	R 3.15	13.35	3.06	50.18	22.07
2018	—	5.73	5.73	10.57	21.18	31.63	16.27	23.06	9.62	26.60	21.98	0.75	R 3.16	16.10	3.89	54.23	24.80
2019	—	6.11	6.11	R 10.11	R 20.30	29.66	15.04	21.78	8.73	R 27.33	20.86	0.69	R 3.48	15.71	3.66	53.92	23.54
2020	—	—	—	9.63	16.90	26.49	9.96	18.25	8.38	R 25.00	17.80	—	R 2.81	R 13.76	3.06	53.32	R 22.43
2021	—	—	—	10.98	20.36	32.96	15.33	24.63	9.75	R 27.57	22.90	—	R 3.54	R 17.39	5.37	55.85	R 25.73
2022	—	—	—	R 15.56	R 32.42	35.74	26.83	33.51	16.95	R 34.85	32.43	—	R 4.65	R 24.57	R 11.62	62.33	R 32.54
2023	—	—	—	14.31	28.54	33.36	21.56	29.38	13.31	32.20	28.33	—	4.26	22.13	7.11	68.02	31.73
	Expenditures in million dollars																
1970	—	11.7	11.7	234.1	461.9	15.0	33.3	743.8	210.9	70.4	1,535.2	2.7	12.4	1,796.0	-112.4	612.8	2,296.4
1975	—	38.5	38.5	441.3	934.7	31.5	95.0	1,357.3	808.9	93.0	3,320.3	7.5	12.8	3,820.5	-524.9	1,401.0	4,696.6
1980	—	44.5	44.5	901.9	1,504.7	51.2	315.8	2,619.1	1,306.9	199.7	5,997.3	14.3	55.2	7,013.2	-1,191.4	2,398.4	8,220.2
1985	—	222.0	222.0	1,395.1	1,677.7	77.8	238.4	2,644.5	915.4	227.0	5,780.7	39.1	46.1	7,620.5	-1,148.0	3,166.1	9,638.6
1990	—	201.2	201.2	1,492.9	1,784.6	119.9	323.3	2,810.2	579.0	194.7	5,811.8	33.3	47.7	7,641.7	-886.1	4,016.0	10,771.7
1995	—	178.1	178.1	2,044.1	1,436.3	94.6	152.7	3,144.9	233.2	193.1	5,254.9	19.9	57.1	7,592.0	-681.0	4,693.2	11,604.1
2000	—	200.8	200.8	2,645.3	2,136.2	165.3	319.1	4,279.8	414.4	258.1	7,573.0	25.3	59.5	10,626.7	-1,119.0	4,901.2	14,408.9
2005	—	368.0	368.0	4,768.9	3,503.7	236.2	652.0	6,404.8	658.8	303.0	11,758.5	25.3	64.4	17,130.4	-2,533.0	6,971.1	21,568.6
2006	—	313.7	313.7	4,570.2	3,482.8	323.8	709.4	7,342.8	326.5	361.5	12,546.8	25.2	65.1	17,562.2	-1,876.9	8,628.4	24,313.7
2007	—	336.2	336.2	5,066.8	3,741.9	331.1	769.2	8,192.4	416.5	355.9	13,807.1	30.9	68.7	19,368.0	-2,256.9	8,663.8	25,774.9
2008	—	317.4	317.4	5,692.1	4,620.3	344.2	1,446.1	9,187.6	342.1	329.8	16,270.1	29.3	82.4	22,651.8	-2,496.2	9,072.5	29,228.1
2009	—	321.3	321.3	4,118.5	R 3,045.9	269.0	452.7	6,598.0	131.0	459.3	R 10,955.9	32.2	92.7	R 15,723.4	-1,403.7	8,396.7	R 22,716.4
2010	—	268.9	268.9	4,170.3	R 4,030.6	285.1	796.1	7,704.0	103.8	R 558.0	R 13,477.5	40.5	108.8	R 18,234.6	-1,569.0	8,144.9	R 24,810.5
2011	—	160.0	160.0	4,159.7	R 4,709.5	390.7	1,117.6	9,788.7	105.6	R 619.2	R 16,731.4	37.1	118.9	R 21,381.6	-1,393.4	7,842.4	R 27,830.5
2012	—	90.4	90.4	3,407.9	R 4,275.0	303.1	1,134.9	10,048.0	70.1	R 595.4	R 16,426.4	47.0	109.3	R 20,115.7	-894.8	7,626.7	R 26,847.7
2013	—	179.5	179.5	R 4,102.5	R 4,903.3	354.2	1,126.6	9,751.8	87.4	R 652.7	R 16,876.0	37.9	126.5	R 21,371.3	-1,292.0	8,019.9	R 28,099.2
2014	—	129.4	129.4	R 4,595.0	R 4,625.5	431.8	1,105.0	9,226.5	120.4	R 688.1	R 16,197.3	48.1	R 138.6	R 21,173.0	-1,336.3	8,363.5	R 28,200.2
2015	—	86.1	86.1	R 3,887.7	R 3,308.0	320.5	687.5	6,739.1	49.9	R 616.7	R 11,721.7	37.3	R 105.5	R 15,886.3	-982.0	9,232.2	R 24,136.4
2016	—	82.0	82.0	R 3,248.9	R 2,342.1	298.6	672.7	6,147.7	27.7	R 535.6	R 10,024.3	37.7	R 89.6	R 13,512.8	-738.6	8,812.1	R 21,586.3
2017	—	54.0	54.0	R 3,714.5	R 2,675.3	346.0	856.0	6,835.4	31.8	526.5	R 11,270.8	39.9	R 87.9	R 15,171.5	-784.9	8,991.1	R 23,377.7
2018	—	0.6	0.6	R 4,689.2	R 3,340.5	403.0	R 1,166.7	7,739.6	37.4	574.7	R 13,262.0	34.6	R 87.9	R 18,110.2	-826.6	9,859.9	R 27,143.5
2019	—	0.4	0.4	R 4,357.8	R 3,143.1	418.1	R 1,163.4	7,181.5	19.3	R 569.1	R 12,494.7	15.6	R 91.7	R 16,960.6	-575.8	9,445.5	R 25,830.4
2020	—	—	—	R 3,774.7	R 2,395.7	345.7	R 316.7	4,811.7	3.5	R 521.1	R 8,394.4	—	R 73.3	R 12,242.5	-384.4	9,098.4	R 20,956.4
2021	—	—	—	R 4,354.7	R 3,087.0	424.2	R 664.9	7,259.5	20.5	R 599.1	R 12,055.3	—	R 90.9	R 16,500.9	-711.5	9,680.0	R 25,469.5
2022	—	—	—	R 6,593.6	R 5,016.1	446.5	R 1,652.1	9,889.1	78.1	R 830.9	R 17,912.8	—	R 122.0	R 24,628.4	R -1,558.0	10,843.1	R 33,913.5
2023	—	—	—	5,421.8	4,293.7	391.3	1,438.4	8,759.4	25.0	662.2	15,570.1	—	106.6	21,098.5	-857.4	11,606.5	31,847.6

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[l] Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
[m] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET2. Total end-use energy price and expenditure estimates, selected years, 1970-2023, Massachusetts

Year	Primary energy											Electricity [k]	Total energy [h,i,j]
			Petroleum							Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g,h]	Total [h,i,j]		
	Prices in dollars per million Btu												
1970	0.94	1.63	1.36	2.19	0.75	2.86	0.40	1.66	1.48	1.13	1.49	7.29	1.89
1975	2.62	2.88	2.74	3.68	2.09	4.73	1.99	3.42	3.25	1.29	3.17	13.93	4.12
1980	1.96	4.92	6.88	6.60	6.51	9.69	3.85	8.30	7.87	2.56	7.06	21.13	8.76
1985	2.57	7.00	8.05	12.13	6.04	9.18	4.28	10.03	8.08	2.69	7.70	24.34	9.93
1990	2.77	6.41	7.98	12.34	5.83	9.53	2.95	9.54	8.20	2.70	7.67	25.90	10.40
1995	2.35	6.90	6.67	11.70	4.06	10.28	2.85	10.40	8.31	2.21	7.78	29.57	11.08
2000	2.05	8.49	9.95	15.09	6.86	12.65	4.31	10.88	11.09	3.27	10.24	27.75	13.03
2005	3.22	14.54	16.03	21.69	12.74	18.13	7.68	16.36	16.66	4.30	16.04	35.70	19.51
2006	3.52	16.38	18.41	23.74	14.92	20.70	8.44	19.28	19.30	4.52	18.50	45.28	23.41
2007	3.58	15.76	19.91	26.46	16.47	22.55	9.38	24.84	21.19	5.06	19.64	44.44	24.18
2008	4.07	16.06	25.96	31.34	23.06	26.45	13.00	38.34	26.00	7.29	22.99	47.58	27.38
2009	4.19	13.40	17.94	27.37	12.87	19.51	9.32	21.44	18.70	6.09	16.98	45.27	22.08
2010	4.23	12.60	21.54	31.09	16.41	22.83	13.18	R 24.69	R 22.02	6.97	R 19.13	41.79	R 23.27
2011	4.84	12.09	26.55	35.89	22.87	29.29	17.27	R 28.35	R 27.94	7.69	R 22.86	41.36	R 26.16
2012	6.09	11.40	28.90	33.05	23.36	30.31	17.68	R 29.62	R 29.29	8.31	R 23.72	40.41	R 26.87
2013	5.39	11.68	28.39	32.27	22.59	29.51	17.25	R 30.14	R 28.61	8.45	R 23.04	42.53	R 26.51
2014	5.48	R 12.94	27.65	35.19	21.02	28.40	16.15	R 29.27	R 27.66	8.53	R 22.62	45.00	R 26.53
2015	5.26	11.25	R 19.12	28.26	12.36	20.10	8.30	R 26.64	R 19.49	R 5.96	R 16.70	49.54	R 22.37
2016	5.24	10.09	R 16.22	28.26	10.41	18.14	5.27	R 22.75	R 17.14	R 4.48	R 14.80	48.30	R 20.65
2017	5.14	10.85	18.11	30.92	12.30	20.51	7.11	22.90	19.18	R 5.07	16.34	50.18	22.07
2018	5.73	13.19	21.23	31.63	16.27	23.06	9.54	26.60	22.06	R 5.54	18.94	54.23	24.80
2019	6.11	12.22	20.32	29.66	15.04	21.78	8.49	R 27.33	20.87	R 5.70	17.77	53.92	23.54
2020	—	12.06	16.92	26.49	9.96	18.25	8.93	R 25.00	17.81	R 4.78	R 15.52	53.32	R 22.43
2021	—	13.10	20.37	32.96	15.33	24.63	9.58	R 27.57	R 22.91	R 5.66	R 19.34	55.85	R 25.73
2022	—	17.04	R 32.70	35.74	26.83	33.51	15.50	R 34.85	R 32.59	R 5.54	R 26.57	62.33	R 32.54
2023	—	17.22	28.57	33.36	21.56	29.38	12.78	32.20	28.36	4.91	24.30	68.02	31.73
	Expenditures in million dollars												
1970	7.5	232.2	459.0	15.0	33.3	743.8	110.1	70.4	1,431.5	12.4	1,683.6	612.8	2,296.4
1975	12.9	439.4	928.9	31.5	94.4	1,357.3	325.3	93.0	2,830.4	12.8	3,295.5	1,401.0	4,696.6
1980	9.3	884.6	1,483.5	51.2	315.5	2,619.1	203.8	199.7	4,872.7	55.2	5,821.8	2,398.4	8,220.2
1985	19.6	1,235.0	1,650.0	77.8	238.4	2,644.5	334.1	227.0	5,171.7	46.1	6,472.5	3,166.1	9,638.6
1990	9.4	1,339.7	1,765.2	119.9	323.3	2,810.2	156.7	194.7	5,370.1	36.4	6,755.6	4,016.0	10,771.7
1995	4.1	1,780.1	1,421.6	94.6	152.7	3,144.9	84.7	193.1	5,091.7	35.1	6,911.0	4,693.2	11,604.1
2000	3.9	2,240.8	2,122.0	165.3	319.1	4,279.8	81.9	258.1	7,226.2	36.7	9,507.7	4,901.2	14,408.9
2005	9.5	3,301.1	3,477.8	236.2	652.0	6,404.8	196.9	303.0	11,270.7	16.2	14,597.5	6,971.1	21,568.6
2006	8.5	3,311.4	3,470.2	323.8	709.4	7,342.8	141.2	361.5	12,348.9	16.5	15,685.3	8,628.4	24,313.7
2007	10.1	3,580.8	3,728.7	331.1	769.2	8,192.4	122.8	355.9	13,500.1	20.1	17,111.0	8,663.8	25,774.9
2008	9.1	4,075.7	4,604.3	344.2	1,446.1	9,187.6	134.3	329.8	16,046.4	24.6	20,155.7	9,072.5	29,228.1
2009	5.5	3,378.2	R 3,028.6	269.0	452.7	6,598.0	81.9	459.3	R 10,889.4	46.5	R 14,319.7	8,396.7	R 22,716.4
2010	7.4	3,159.3	R 4,018.0	285.1	796.1	7,704.0	79.2	R 558.0	R 13,440.3	58.6	R 16,665.6	8,144.9	R 24,810.5
2011	7.9	3,217.2	R 4,691.2	390.7	1,117.6	9,788.7	84.5	R 619.2	R 16,692.0	71.1	R 19,988.1	7,842.4	R 27,830.5
2012	10.1	2,747.0	R 4,260.5	303.1	1,134.9	10,048.0	55.4	R 595.4	R 16,397.3	66.5	R 19,220.9	7,626.7	R 26,847.7
2013	8.7	R 3,183.3	R 4,870.9	354.2	1,126.6	9,751.8	48.3	R 652.7	R 16,804.5	82.7	R 20,079.3	8,019.9	R 28,099.2
2014	8.5	R 3,696.9	R 4,573.4	431.8	1,105.0	9,226.5	24.9	R 688.1	R 16,049.7	R 81.7	R 19,836.7	8,363.5	R 28,200.2
2015	6.4	3,208.8	R 3,264.1	320.5	687.5	6,739.1	8.5	R 616.7	R 11,636.4	R 52.7	R 14,904.3	9,232.2	R 24,136.4
2016	0.5	R 2,734.2	R 2,338.3	298.6	672.7	6,147.7	8.2	R 535.6	R 10,001.0	R 38.4	R 12,774.2	8,812.1	R 21,586.3
2017	0.5	R 3,105.0	R 2,660.7	346.0	856.0	6,835.4	16.7	526.5	R 11,241.2	R 39.9	R 14,386.7	8,991.1	R 23,377.7
2018	0.6	R 4,032.7	R 3,314.0	403.0	R 1,166.7	7,739.6	8.7	574.7	R 13,206.7	R 43.7	R 17,283.6	9,859.9	R 27,143.5
2019	0.4	R 3,850.5	R 3,137.6	418.1	R 1,163.4	7,181.5	12.9	R 569.1	R 12,482.8	R 51.2	R 16,384.9	9,445.5	R 25,830.4
2020	—	R 3,425.0	R 2,393.1	345.7	R 316.7	4,811.7	2.8	R 521.1	R 8,391.0	R 42.1	R 11,858.1	9,098.4	R 20,956.4
2021	—	R 3,694.6	R 3,080.9	424.2	R 664.9	7,259.5	15.4	R 599.1	R 12,044.0	R 50.9	R 15,789.5	9,680.0	R 25,469.5
2022	—	R 5,195.7	R 4,930.9	446.5	R 1,652.1	9,889.1	25.5	R 830.9	R 17,775.0	R 99.7	R 23,070.4	10,843.1	R 33,913.5
2023	—	4,608.5	4,281.1	391.3	1,438.4	8,759.4	17.4	662.2	15,549.9	82.7	20,241.1	11,606.5	31,847.6

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. · Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2023, Massachusetts

Year	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
	Prices in dollars per million Btu									
1970	1.05	1.90	1.49	2.99	1.62	1.52	0.56	1.60	8.59	2.22
1975	2.62	3.14	2.85	4.92	3.16	2.89	1.11	2.93	15.30	4.19
1980	4.47	5.33	7.05	8.99	8.15	7.10	2.85	6.13	22.18	8.32
1985	4.39	7.65	8.10	11.43	7.72	8.18	3.22	7.70	26.16	10.60
1990	4.21	7.55	8.21	13.36	6.28	8.37	2.83	7.75	28.31	11.40
1995	4.01	8.82	6.40	13.53	4.68	6.66	2.30	7.41	32.99	12.11
2000	4.12	9.49	9.65	17.21	10.34	10.02	3.50	9.55	30.87	13.62
2005	6.49	15.21	15.64	24.40	15.00	16.13	5.48	15.56	39.39	20.98
2006	6.37	17.49	17.90	27.30	17.83	18.53	6.31	17.88	48.65	25.44
2007	5.69	16.73	19.64	29.13	22.35	20.32	6.97	18.27	47.57	25.27
2008	—	16.96	24.39	34.25	27.72	25.14	8.59	20.31	51.47	27.20
2009	—	14.41	18.09	30.40	23.35	19.07	6.45	15.99	49.46	23.42
2010	—	14.06	22.02	34.49	25.21	22.93	7.61	17.43	42.77	23.58
2011	—	13.42	25.43	39.66	28.89	26.65	9.15	18.49	43.00	24.21
2012	—	12.79	28.89	38.68	31.43	29.68	10.19	19.06	43.71	25.41
2013	—	13.06	28.18	37.90	31.38	29.04	9.98	R 19.19	46.41	26.06
2014	—	14.16	27.47	41.17	31.77	R 28.68	9.73	19.88	50.97	27.02
2015	—	12.65	18.85	34.92	17.01	20.18	6.71	15.50	58.11	25.38
2016	—	12.09	16.04	34.14	13.56	17.91	5.73	14.11	55.69	R 24.84
2017	—	12.93	17.97	35.90	16.96	19.81	6.41	15.38	58.79	25.80
2018	—	15.01	19.90	37.52	24.50	R 21.69	7.09	17.38	63.33	28.19
2019	—	14.27	18.97	34.79	22.88	20.88	6.82	16.54	64.23	27.09
2020	—	14.28	15.26	32.50	14.86	R 17.19	5.64	R 15.13	64.38	R 27.51
2021	—	15.55	18.45	39.37	23.47	20.58	6.77	R 17.20	67.09	R 29.47
2022	—	19.85	28.82	42.78	38.94	30.25	R 10.47	R 23.23	76.12	R 35.68
2023	—	20.82	26.36	40.94	34.20	27.80	9.58	23.24	86.78	39.11
	Expenditures in million dollars									
1970	2.6	158.6	334.9	9.0	13.2	357.2	2.1	520.4	273.7	794.1
1975	1.8	284.4	628.7	16.0	10.6	655.3	4.4	945.8	555.7	1,501.6
1980	2.2	511.9	932.9	19.6	14.9	967.4	47.8	1,529.3	875.7	2,405.0
1985	3.1	765.7	946.8	37.7	25.3	1,009.7	37.9	1,816.4	1,151.9	2,968.4
1990	1.3	834.7	981.9	58.6	5.8	1,046.2	31.0	1,913.3	1,504.9	3,418.2
1995	0.3	956.7	746.8	63.3	3.5	813.5	27.2	1,797.8	1,800.2	3,598.0
2000	0.2	1,130.5	1,147.7	104.6	11.2	1,263.5	30.3	2,424.5	1,850.0	4,274.4
2005	0.6	1,830.3	1,677.1	159.1	25.4	1,861.6	11.9	3,704.3	2,760.3	6,464.7
2006	0.2	1,834.6	1,624.8	182.0	24.1	1,830.9	12.1	3,677.8	3,257.3	6,935.2
2007	0.3	1,957.2	1,804.2	200.7	20.5	2,025.4	14.8	3,997.8	3,268.7	7,266.5
2008	—	2,281.8	2,226.6	252.6	9.9	2,489.0	20.4	4,791.2	3,448.7	8,239.9
2009	—	1,973.3	1,491.9	209.6	13.1	1,714.6	39.9	3,727.9	3,286.2	7,014.0
2010	—	1,825.0	1,856.0	223.2	14.3	2,093.5	50.5	3,969.0	3,124.5	7,093.5
2011	—	1,784.5	2,084.9	303.0	10.1	2,398.0	58.9	4,241.3	3,003.3	7,244.6
2012	—	1,524.4	1,986.6	231.2	5.2	2,223.0	54.8	3,802.2	3,029.3	6,831.4
2013	—	1,576.5	R 2,091.6	271.4	5.3	R 2,368.2	70.0	R 4,014.8	3,282.1	R 7,296.9
2014	—	1,840.1	R 2,312.6	334.7	9.4	R 2,656.7	69.1	R 4,565.9	3,490.6	R 8,056.5
2015	—	1,649.1	R 1,573.9	265.4	4.3	R 1,843.6	42.8	R 3,535.5	4,000.0	R 7,535.5
2016	—	1,396.5	R 1,039.9	257.8	4.0	R 1,301.7	R 29.2	R 2,727.4	3,741.9	R 6,469.3
2017	—	1,614.1	R 1,273.7	292.1	3.5	R 1,569.2	32.3	R 3,215.7	3,879.1	R 7,094.8
2018	—	2,015.7	R 1,529.8	324.3	4.9	R 1,858.9	R 35.8	R 3,910.4	4,383.4	R 8,293.8
2019	—	1,988.9	R 1,441.1	360.0	5.5	R 1,806.7	R 42.2	R 3,837.8	4,233.1	R 8,070.9
2020	—	1,770.1	R 1,040.8	280.7	4.1	R 1,325.6	R 32.3	R 3,128.0	4,469.0	R 7,597.0
2021	—	1,967.4	R 1,323.4	318.3	5.0	R 1,646.7	R 40.1	R 3,654.2	4,647.9	R 8,302.1
2022	—	2,690.1	R 2,039.9	339.3	7.2	R 2,386.4	R 78.1	R 5,154.6	5,196.3	R 10,350.9
2023	—	2,354.2	1,870.7	312.3	11.7	2,194.6	60.7	4,609.6	5,733.9	10,343.4

[a] Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2023, Massachusetts

Year	Primary energy										Electricity [j]	Total energy [g,h,i]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f,g]	Total [g,h,i]		
	Prices in dollars per million Btu											
1970	0.89	1.40	1.10	1.52	0.81	2.86	0.37	0.72	0.56	0.84	8.05	1.64
1975	2.62	2.64	2.44	2.74	2.62	4.73	1.89	2.23	1.11	2.32	14.39	4.50
1980	1.67	4.65	6.36	5.28	6.12	9.69	3.81	5.37	2.85	5.01	22.08	9.30
1985	2.39	6.88	6.72	12.09	7.72	9.18	4.31	6.09	3.22	6.31	25.20	12.65
1990	2.62	6.14	6.38	10.70	6.28	9.53	3.05	5.24	2.83	5.55	25.43	12.32
1995	2.26	6.42	4.90	9.99	4.68	10.28	2.86	4.43	2.30	5.55	29.34	13.17
2000	2.00	8.24	7.82	12.43	10.34	12.65	4.43	7.60	3.06	7.89	27.06	15.87
2005	3.12	14.08	13.61	16.72	15.00	18.13	7.79	11.81	3.29	12.87	36.41	23.61
2006	3.48	15.59	15.98	18.58	17.83	20.70	8.54	14.46	3.02	14.97	45.55	30.75
2007	3.54	14.85	17.57	20.61	22.35	22.55	9.32	16.35	3.51	15.08	44.55	29.93
2008	—	15.06	24.19	24.05	27.72	26.45	13.78	21.57	8.58	16.61	47.09	31.33
2009	—	12.47	15.86	19.49	23.35	19.51	10.43	15.36	6.45	13.16	45.03	25.17
2010	—	11.61	19.79	22.66	25.21	22.83	14.22	19.50	7.61	14.21	42.59	24.29
2011	—	11.35	25.30	26.11	28.89	29.29	18.23	24.92	9.14	14.55	42.01	24.29
2012	—	10.33	26.43	21.83	31.43	30.31	19.97	25.34	10.18	13.06	40.57	23.88
2013	—	10.89	25.10	21.15	31.38	29.51	21.00	24.23	9.97	12.85	41.72	22.42
2014	—	12.19	24.91	22.77	31.77	28.40	18.68	24.37	9.65	R 14.02	43.01	25.87
2015	—	10.50	14.79	14.73	17.01	20.10	10.32	16.18	6.70	11.56	46.26	25.39
2016	—	9.20	12.55	13.63	13.56	18.14	7.59	14.83	R 3.00	R 9.91	45.72	R 24.56
2017	—	9.87	13.66	17.76	16.96	20.51	10.34	16.65	R 3.17	10.75	46.70	R 25.07
2018	—	12.46	19.33	19.25	24.50	23.06	13.35	20.64	R 3.18	R 13.48	50.33	R 27.51
2019	—	10.98	18.00	15.56	22.88	21.78	12.73	18.96	R 3.57	11.98	49.22	R 25.75
2020	—	10.88	12.46	14.78	14.86	18.25	10.01	R 15.16	R 3.50	R 11.36	46.99	R 24.59
2021	—	11.70	19.23	22.20	23.47	24.63	14.97	21.27	R 4.03	R 13.37	49.79	R 27.16
2022	—	15.11	31.31	23.56	38.94	33.51	24.66	30.82	R 2.02	R 16.89	54.70	R 30.12
2023	—	15.24	24.37	19.33	34.20	29.38	22.44	25.27	2.05	16.09	57.51	31.22
	Expenditures in million dollars											
1970	1.7	50.1	86.4	1.8	0.5	1.5	35.0	125.3	(s)	177.2	213.6	390.8
1975	4.2	100.1	187.9	3.6	0.7	2.7	108.6	303.5	0.1	407.9	559.7	967.5
1980	3.1	252.5	278.0	4.6	1.0	9.7	116.3	409.7	1.2	666.5	983.0	1,649.4
1985	6.1	291.5	249.4	16.0	4.7	9.1	85.6	364.7	0.9	663.2	1,338.2	2,001.4
1990	3.3	321.5	275.5	18.8	4.5	3.4	85.8	388.0	3.4	716.2	1,693.8	2,410.0
1995	1.3	541.8	184.8	18.7	2.9	3.5	55.2	265.2	3.7	812.1	2,027.6	2,839.7
2000	0.8	549.3	236.9	30.3	6.3	18.4	38.7	330.5	5.3	885.8	2,164.0	3,049.8
2005	3.1	809.7	373.2	49.2	6.7	5.5	130.5	565.0	3.4	1,381.2	3,281.9	4,663.1
2006	1.3	822.9	302.8	51.8	3.9	7.8	62.8	429.1	3.3	1,256.6	4,077.7	5,334.3
2007	1.8	927.5	330.7	51.2	3.2	9.3	48.9	443.2	4.1	1,376.7	4,127.0	5,503.6
2008	—	1,102.6	340.4	69.3	3.2	10.7	82.5	506.1	3.1	1,611.8	4,271.2	5,883.0
2009	—	919.4	290.1	48.4	2.3	8.0	46.1	395.0	5.6	1,320.0	2,731.2	4,051.2
2010	—	864.6	621.4	50.6	6.7	5.5	49.4	733.7	6.6	1,604.9	2,651.0	4,255.9
2011	—	946.9	524.5	64.7	1.0	21.7	39.0	650.9	7.6	1,605.4	2,546.8	4,152.2
2012	—	780.1	345.4	49.4	0.3	6.6	27.6	429.3	7.4	1,216.8	2,453.1	3,669.9
2013	—	1,122.5	R 338.6	59.2	0.4	7.0	29.3	R 434.6	8.4	R 1,565.5	2,521.4	R 4,086.9
2014	—	1,320.4	R 379.6	70.1	2.4	6.6	15.7	R 474.5	R 8.2	R 1,803.1	3,827.1	R 5,630.1
2015	—	1,136.9	R 229.8	41.6	1.2	141.1	3.3	R 417.1	R 5.7	R 1,559.7	4,135.8	R 5,695.5
2016	—	994.0	R 106.7	29.3	1.0	128.3	1.5	R 266.9	R 5.2	R 1,266.1	4,045.7	R 5,311.8
2017	—	1,112.2	R 133.1	38.4	0.9	146.8	1.6	R 320.7	R 5.7	R 1,438.7	4,138.0	R 5,576.7
2018	—	1,525.1	R 178.2	66.0	1.2	164.0	1.1	R 410.5	R 5.4	R 1,941.0	4,456.6	R 6,397.6
2019	—	1,375.6	R 177.5	47.3	1.8	155.8	1.6	R 384.0	R 6.5	R 1,766.0	4,255.4	R 6,021.5
2020	—	1,227.8	R 91.6	53.7	1.4	131.8	2.1	R 280.6	R 7.2	R 1,515.6	3,706.9	R 5,222.6
2021	—	1,244.2	R 261.4	88.8	1.4	179.7	1.8	R 533.0	R 8.4	R 1,785.6	4,048.4	R 5,834.0
2022	—	1,816.2	R 414.4	90.1	2.0	270.4	3.1	R 780.0	R 18.8	R 2,615.1	4,562.5	R 7,177.5
2023	—	1,677.7	323.3	65.3	3.3	225.4	2.3	619.5	19.2	2,316.4	4,763.5	7,079.9

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[g] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[j] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: Expenditure totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2023, Massachusetts

Year	Primary energy												Electricity [i]	Total energy [f,g,h]
	Coal			Natural gas [a]	Petroleum						Biomass	Total [f,g,h]		
	Coking coal	Steam coal	Total		Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e,f]			
	Prices in dollars per million Btu													
1970	—	0.89	0.89	1.03	0.74	1.60	2.86	0.42	1.35	0.60	1.42	0.67	4.88	1.06
1975	—	2.62	2.62	2.28	2.36	2.98	4.73	2.06	2.93	2.25	1.42	2.23	11.21	3.37
1980	—	1.67	1.67	4.09	5.59	5.75	9.69	4.14	7.33	5.78	1.43	4.87	18.21	8.21
1985	—	2.39	2.39	5.24	6.62	13.57	9.18	4.31	9.27	5.79	1.43	5.33	20.47	8.50
1990	—	2.62	2.62	4.00	6.71	11.92	9.53	3.05	7.83	6.35	1.52	5.15	23.13	9.73
1995	—	2.26	2.26	4.32	5.49	7.85	10.28	2.86	8.80	6.51	1.70	4.96	24.65	9.89
2000	—	2.00	2.00	7.17	7.83	12.38	12.65	4.43	8.98	8.28	1.30	7.40	24.03	11.35
2005	—	3.12	3.12	13.47	13.56	19.73	18.13	7.79	12.98	13.39	1.66	13.13	27.01	17.04
2006	—	3.48	3.48	14.74	15.88	21.54	20.70	8.54	15.30	15.53	1.70	14.74	38.22	21.22
2007	—	3.54	3.54	14.60	17.76	25.37	22.55	9.32	19.77	18.14	1.70	15.56	38.18	21.98
2008	—	4.07	4.07	15.04	24.78	32.41	26.45	13.78	32.78	26.09	1.70	17.96	41.43	25.33
2009	—	4.19	4.19	11.71	15.23	25.53	19.51	10.43	17.44	16.96	1.70	13.62	41.24	25.89
2010	—	4.23	4.23	10.07	18.40	24.28	22.83	14.22	R 20.42	R 20.22	1.70	R 13.89	40.18	R 24.95
2011	—	4.84	4.84	9.86	24.32	30.05	29.29	18.23	R 23.25	R 24.29	2.32	R 15.17	39.20	R 24.86
2012	—	6.09	6.09	9.50	25.50	24.25	30.31	19.97	R 24.47	R 25.47	2.29	R 15.02	36.83	R 24.39
2013	—	5.39	5.39	9.83	24.58	23.33	29.51	21.00	R 25.12	R 25.71	2.23	R 15.19	38.62	R 24.84
2014	—	5.48	5.48	11.26	24.37	25.52	28.40	18.68	R 24.87	R 25.25	2.68	R 16.21	37.34	R 21.58
2015	—	5.26	5.26	8.96	15.64	14.63	20.10	10.32	R 21.85	R 20.24	2.63	R 13.10	39.70	R 19.86
2016	—	5.24	5.24	7.18	12.82	13.14	18.14	7.59	R 18.06	R 17.09	2.29	R 10.83	39.20	R 17.79
2017	—	5.14	5.14	7.79	13.95	17.46	20.51	10.34	18.45	17.87	1.82	11.54	40.69	18.14
2018	—	5.73	5.73	10.00	18.22	18.95	23.06	13.35	21.80	21.28	2.23	13.96	43.64	20.64
2019	—	6.11	6.11	9.62	16.71	15.24	21.78	12.73	R 22.52	R 21.26	2.59	R 13.58	43.25	R 19.97
2020	—	—	—	9.03	11.97	14.46	18.25	10.01	21.03	R 19.12	2.53	12.60	42.52	19.17
2021	—	—	—	9.83	16.40	21.86	24.63	14.97	R 22.98	R 22.04	2.47	R 14.24	44.49	R 20.74
2022	—	—	—	13.99	27.34	23.20	33.51	24.66	R 29.62	R 29.62	R 2.30	R 19.82	49.99	R 26.06
2023	—	—	—	12.89	24.08	18.95	29.38	22.44	26.99	26.64	2.44	18.00	52.41	25.56
	Expenditures in million dollars													
1970	—	3.2	3.2	23.5	12.5	4.0	1.7	68.1	40.0	126.3	10.3	163.3	123.4	286.7
1975	—	6.9	6.9	55.0	36.5	11.6	2.0	205.3	58.1	313.5	8.4	383.8	280.3	664.1
1980	—	4.0	4.0	120.2	61.5	26.5	4.6	69.3	130.9	292.7	6.2	423.2	527.3	950.5
1985	—	10.4	10.4	177.8	44.9	20.8	17.7	227.8	143.7	454.9	7.3	650.5	660.4	1,310.9
1990	—	4.8	4.8	183.5	101.0	40.0	20.7	50.0	120.5	332.2	2.0	522.5	801.6	1,324.1
1995	—	2.4	2.4	281.4	40.8	10.5	20.0	26.2	123.5	221.0	4.1	508.9	843.1	1,352.0
2000	—	3.0	3.0	560.7	43.0	27.6	20.2	30.6	166.3	287.7	1.1	852.5	863.5	1,716.0
2005	—	5.8	5.8	653.1	149.5	25.1	85.5	37.6	172.7	470.5	0.9	1,130.3	909.6	2,040.0
2006	—	7.0	7.0	644.5	146.6	87.3	99.7	59.9	222.2	615.7	1.1	1,268.4	1,252.1	2,520.5
2007	—	7.9	7.9	687.1	139.7	76.7	91.8	56.7	204.5	569.3	1.1	1,265.5	1,230.9	2,496.4
2008	—	9.1	9.1	680.8	225.2	16.7	98.3	33.5	182.5	556.3	1.1	1,247.2	1,319.2	2,566.4
2009	—	5.5	5.5	475.6	77.2	9.1	68.7	19.4	317.4	491.7	1.0	973.8	2,357.3	3,331.1
2010	—	7.4	7.4	460.5	131.9	10.3	104.5	10.6	R 390.2	R 647.5	1.6	R 1,117.0	2,346.6	R 3,463.6
2011	—	7.9	7.9	482.6	177.6	21.9	140.8	26.2	R 438.9	R 805.4	4.6	R 1,300.5	2,270.4	R 3,570.8
2012	—	10.1	10.1	431.4	99.2	21.5	141.3	14.4	R 430.1	R 706.5	4.4	R 1,152.3	2,127.2	R 3,279.5
2013	—	8.7	8.7	473.8	88.1	22.6	142.7	3.5	R 473.8	R 730.7	4.3	R 1,217.5	2,169.2	R 3,386.7
2014	—	8.5	8.5	525.5	104.2	25.5	109.4	2.1	R 511.3	R 752.5	4.4	R 1,290.9	1,014.3	R 2,305.1
2015	—	6.4	6.4	410.8	86.7	11.9	76.4	1.7	R 437.6	R 614.3	4.3	R 1,035.7	1,068.9	R 2,104.6
2016	—	0.5	0.5	338.3	60.1	9.7	69.6	0.7	R 370.1	R 510.3	4.0	R 853.1	1,004.2	R 1,857.3
2017	—	0.5	0.5	377.0	74.9	11.7	79.9	1.2	375.0	542.7	1.9	922.1	952.3	1,874.4
2018	—	0.6	0.6	490.0	86.2	11.7	91.7	1.8	413.4	604.8	2.6	1,097.9	997.6	2,095.5
2019	—	0.4	0.4	483.8	75.1	10.1	87.6	0.9	R 410.6	R 584.2	2.6	R 1,071.0	935.8	R 2,006.8
2020	—	—	—	425.5	48.3	9.9	73.8	0.2	R 391.1	R 523.3	2.5	R 951.4	902.3	R 1,853.7
2021	—	—	—	481.6	80.7	15.5	98.9	1.7	R 446.5	R 643.2	2.5	R 1,127.3	963.2	R 2,090.4
2022	—	—	—	687.2	136.0	15.6	139.2	2.8	R 635.7	R 929.4	R 2.7	R 1,619.3	1,063.2	R 2,682.5
2023	—	—	—	572.2	116.9	12.4	122.2	2.1	498.6	752.2	2.7	1,327.2	1,089.2	2,416.4

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[i] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET6. Transportation sector energy price and expenditure estimates, selected years, 1970-2023, Massachusetts

Year	Primary energy											Electricity [g]	Total energy [f]
			Petroleum										
	Coal	Natural gas[a]	Aviation gasoline	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Lubricants	Motor gasoline [e]	Residual fuel oil	Total	Total [f]		
	Prices in dollars per million Btu												
1970	0.89	—	2.17	1.35	1.52	0.75	5.08	2.86	0.34	2.37	2.37	5.66	2.38
1975	2.62	—	3.45	2.90	2.74	2.09	7.48	4.73	1.72	4.24	4.24	14.77	4.25
1980	—	—	9.02	7.40	5.28	6.51	14.36	9.69	3.22	9.00	9.00	21.74	9.03
1985	—	—	9.99	9.24	12.66	6.04	18.18	9.18	3.77	8.84	8.84	23.83	8.87
1990	—	3.47	9.32	9.37	11.27	5.83	20.61	9.53	2.44	8.93	8.93	25.10	8.96
1995	—	4.11	8.36	8.79	10.67	4.06	21.75	10.28	2.60	9.55	9.55	27.61	9.59
2000	—	2.60	10.87	11.87	13.44	6.86	23.20	12.65	3.73	11.95	11.95	29.22	11.98
2005	—	10.18	18.56	17.92	17.99	12.74	35.22	18.13	7.11	17.52	17.50	14.08	17.49
2006	—	12.93	22.31	20.07	20.25	14.92	43.88	20.70	7.83	20.08	20.07	31.30	20.10
2007	—	12.64	23.70	21.15	22.02	16.47	47.16	22.55	9.77	21.84	21.83	27.08	21.84
2008	—	13.62	27.23	28.81	26.63	23.06	55.12	26.45	9.59	26.39	26.37	29.48	26.38
2009	—	12.60	20.32	18.58	20.07	12.87	56.07	19.51	6.55	18.94	18.93	18.19	18.93
2010	—	12.08	25.19	22.12	23.45	16.41	58.80	22.83	10.72	22.18	22.16	18.75	22.15
2011	—	4.16	31.64	28.55	27.60	22.87	69.54	29.29	14.64	28.64	28.60	18.00	28.57
2012	—	14.15	33.04	29.64	22.88	23.36	72.11	30.31	13.04	29.61	29.58	14.38	29.54
2013	—	R 14.54	32.71	29.31	21.62	22.59	69.42	29.51	12.52	28.89	28.86	38.28	28.89
2014	—	R 14.71	33.16	28.80	23.67	21.02	69.44	28.40	12.10	27.76	R 27.73	25.69	27.73
2015	—	R 14.37	24.86	20.79	15.68	12.36	67.28	20.10	6.51	19.49	19.48	22.75	19.48
2016	—	R 14.44	21.62	17.12	13.86	10.41	65.78	18.14	4.73	17.12	17.11	17.41	17.12
2017	—	R 14.46	24.13	19.35	17.25	12.30	67.25	20.51	6.69	19.26	19.26	18.23	19.26
2018	—	R 14.68	27.04	23.28	19.16	16.27	72.37	23.06	8.36	22.23	22.23	18.71	22.22
2019	—	R 16.17	25.57	22.52	16.07	15.04	74.92	21.78	7.87	20.93	20.93	18.04	20.92
2020	—	R 15.90	22.34	19.59	14.51	9.96	75.34	18.25	5.74	17.99	17.99	18.28	17.99
2021	—	R 16.13	28.86	23.19	20.55	15.33	81.25	24.63	8.67	23.56	23.56	19.09	23.55
2022	—	R 19.03	36.02	37.87	22.16	26.83	97.37	33.51	13.94	R 33.38	33.37	20.76	33.34
2023	—	26.90	32.62	32.43	19.07	21.56	105.48	29.38	11.15	28.76	28.76	20.95	28.74
	Expenditures in million dollars												
1970	(s)	—	3.0	25.2	0.2	33.3	13.6	740.6	7.0	822.8	822.8	2.0	824.8
1975	(s)	—	4.0	75.8	0.3	94.4	19.6	1,352.5	11.3	1,558.0	1,558.0	5.3	1,563.3
1980	—	—	12.5	211.1	0.5	315.5	40.4	2,604.7	18.2	3,202.9	3,202.9	12.4	3,215.3
1985	—	—	6.8	408.9	3.4	238.4	46.5	2,617.7	20.7	3,342.4	3,342.4	15.7	3,358.1
1990	—	(s)	4.5	406.9	2.6	323.3	59.3	2,786.1	20.9	3,603.6	3,603.6	15.7	3,619.3
1995	—	0.2	3.6	449.2	2.0	152.7	59.7	3,121.5	3.3	3,792.0	3,792.2	22.3	3,814.5
2000	—	0.3	6.3	694.3	2.9	319.1	68.0	4,241.3	12.6	5,344.6	5,344.9	23.8	5,368.7
2005	—	8.0	11.0	1,278.1	2.7	652.0	87.1	6,313.8	28.9	8,373.6	8,381.5	19.3	8,400.8
2006	—	9.3	5.5	1,395.9	2.7	709.4	105.8	7,235.4	18.4	9,473.1	9,482.4	41.3	9,523.7
2007	—	9.0	10.4	1,454.1	2.5	769.2	117.4	8,091.3	17.3	10,462.2	10,471.2	37.2	10,508.4
2008	—	10.5	6.9	1,812.1	5.6	1,446.1	127.4	9,078.7	18.3	12,495.0	12,505.5	33.4	12,538.8
2009	—	10.0	10.0	R 1,169.3	1.9	452.7	116.5	6,521.3	16.4	R 8,288.1	R 8,298.1	22.1	R 8,320.1
2010	—	9.2	7.1	R 1,408.7	0.9	796.1	139.7	7,593.9	19.2	R 9,965.6	9,974.8	22.7	R 9,997.5
2011	—	3.3	8.4	R 1,904.2	1.1	1,117.6	160.9	9,626.2	19.3	R 12,837.7	R 12,841.0	21.9	R 12,862.9
2012	—	11.1	8.3	R 1,829.3	0.9	1,134.9	151.5	9,900.1	13.5	R 13,038.5	R 13,049.7	17.2	R 13,066.8
2013	—	R 10.5	7.1	R 2,352.6	1.0	1,126.6	166.1	9,602.1	15.5	R 13,271.0	R 13,281.5	47.1	R 13,328.7
2014	—	R 10.8	12.4	R 1,776.9	1.5	1,105.0	152.5	9,110.5	7.2	R 12,166.0	R 12,176.8	31.6	R 12,208.5
2015	—	12.0	8.9	R 1,373.7	1.5	687.5	164.7	6,521.6	3.5	R 8,761.4	R 8,773.4	27.4	R 8,800.8
2016	—	R 5.4	7.5	R 1,131.6	1.8	672.7	152.8	5,949.8	5.9	R 7,922.2	R 7,927.6	20.3	R 7,947.9
2017	—	R 1.7	8.2	R 1,179.1	3.8	856.0	138.9	6,608.7	13.9	R 8,808.5	R 8,810.2	21.7	R 8,831.9
2018	—	R 1.9	10.6	R 1,519.8	1.0	R 1,166.7	144.6	7,484.0	5.8	R 10,332.5	R 10,334.4	22.3	R 10,356.6
2019	—	R 2.2	9.9	1,443.9	0.7	R 1,163.4	R 141.4	6,938.1	10.5	R 9,707.9	R 9,710.0	21.1	R 9,731.2
2020	—	R 1.5	7.1	R 1,212.4	1.4	R 316.7	R 117.4	4,606.1	0.5	R 6,261.5	R 6,263.1	20.2	R 6,283.2
2021	—	R 1.3	10.4	R 1,415.5	1.6	R 664.9	R 135.9	6,980.9	11.9	R 9,221.1	R 9,222.4	20.5	R 9,242.9
2022	—	2.2	13.4	R 2,340.6	1.5	R 1,652.1	R 172.5	9,479.5	19.6	R 13,679.2	R 13,681.4	21.2	R 13,702.6
2023	—	4.4	11.5	1,970.2	1.4	1,438.4	137.1	8,411.9	13.0	11,983.5	11,987.9	20.0	12,007.8

[a] Transportation use of natural gas as vehicle fuel only.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET7. Electric power sector price and expenditure estimates, selected years, 1970-2023, Massachusetts

Year	Coal	Natural gas [a]	Petroleum: Distillate fuel oil	Petroleum: Petroleum coke	Petroleum: Residual fuel oil	Petroleum: Total	Nuclear fuel	Biomass: Wood and waste [b]	Electricity imports [c]	Total energy [d]
	Prices in dollars per million Btu									
1970	0.31	0.33	0.43	—	0.38	0.38	0.20	—	—	0.37
1975	1.31	1.32	2.17	—	1.93	1.93	0.18	—	—	1.66
1980	1.95	3.40	6.00	—	3.84	3.86	0.41	—	—	3.41
1985	1.97	3.41	5.80	—	3.91	3.97	0.60	—	9.34	3.00
1990	1.73	2.40	5.41	—	2.86	2.92	0.62	0.46	8.37	2.16
1995	1.68	2.01	3.72	—	2.58	2.66	0.42	0.70	6.21	1.79
2000	1.75	4.44	6.52	—	3.88	3.95	0.44	0.67	16.78	2.86
2005	3.08	9.32	11.67	—	7.13	7.28	0.44	2.28	16.53	5.92
2006	2.78	7.22	13.98	—	7.67	7.90	0.41	2.32	17.32	4.77
2007	2.78	7.82	15.91	—	9.48	9.65	0.57	2.42	18.25	5.42
2008	2.95	10.09	14.44	—	9.80	10.03	0.48	2.66	18.28	6.49
2009	3.48	4.77	11.81	—	6.47	7.33	0.57	2.20	12.10	4.02
2010	3.18	5.25	15.79	—	11.86	12.95	0.65	2.40	13.31	4.20
2011	3.68	4.88	22.15	—	17.64	19.48	0.70	2.44	11.53	4.29
2012	3.59	3.55	23.45	—	16.01	19.02	0.77	2.21	9.51	3.04
2013	4.21	5.75	21.91	—	14.95	17.47	0.84	2.26	11.49	4.73
2014	4.27	6.46	19.94	—	13.74	15.44	0.80	2.73	13.31	5.08
2015	3.47	4.21	22.00	—	7.14	10.94	0.71	2.62	10.54	3.65
2016	4.07	3.20	9.64	—	6.12	6.50	0.67	2.54	8.74	2.79
2017	4.34	3.63	14.55	—	8.03	10.29	0.76	2.40	9.18	3.06
2018	—	4.76	16.01	—	9.64	11.91	0.75	2.22	10.74	3.89
2019	—	4.37	14.70	—	9.25	11.17	0.69	2.33	9.20	3.66
2020	—	3.24	7.68	—	6.82	7.47	—	1.80	—	3.06
2021	—	5.75	16.48	—	10.27	12.92	—	2.39	—	5.37
2022	—	R 11.76	21.71	—	17.76	20.01	—	2.69	—	R 11.62
2023	—	7.31	21.04	—	14.70	18.10	—	2.93	—	7.11
	Expenditures in million dollars									
1970	4.2	1.9	2.9	—	100.8	103.7	2.7	—	—	112.4
1975	25.6	1.9	6.3	—	483.6	490.0	7.5	—	—	524.9
1980	35.2	17.3	21.5	—	1,103.1	1,124.6	14.3	—	—	1,191.4
1985	202.4	160.1	27.8	—	581.3	609.0	39.1	—	137.4	1,148.0
1990	191.8	153.1	19.3	—	422.3	441.7	33.3	11.3	54.9	886.1
1995	174.0	264.0	14.7	—	148.5	163.2	19.9	22.1	37.9	681.0
2000	196.9	404.5	14.2	—	332.5	346.7	25.3	22.8	122.7	1,119.0
2005	358.5	1,467.9	25.9	—	461.9	487.8	25.3	48.2	145.4	2,533.0
2006	305.2	1,258.8	12.6	—	185.4	198.0	25.2	48.6	41.2	1,876.9
2007	326.2	1,486.0	13.3	—	293.7	307.0	30.9	48.7	58.3	2,256.9
2008	308.4	1,616.5	16.0	—	207.7	223.7	29.3	57.8	260.5	2,496.2
2009	315.8	740.3	17.3	—	49.2	66.5	32.2	46.2	202.8	1,403.7
2010	261.5	1,011.0	12.6	—	24.6	37.2	40.5	50.2	168.6	1,569.0
2011	152.1	942.5	18.2	—	21.1	39.4	37.1	47.9	174.5	1,393.4
2012	80.2	660.9	14.5	—	14.6	29.1	47.0	42.7	34.8	894.8
2013	170.9	919.1	32.4	—	39.1	71.5	37.9	43.8	48.9	1,292.0
2014	120.9	898.2	52.2	—	95.5	147.6	48.1	56.9	64.6	1,336.3
2015	79.7	678.9	43.9	—	41.4	85.3	37.3	52.8	48.1	982.0
2016	81.5	514.7	3.8	—	19.5	23.3	37.7	51.2	30.2	738.6
2017	53.4	609.5	14.5	—	15.1	29.6	39.9	47.9	4.5	784.9
2018	—	656.5	26.5	—	28.8	55.3	34.6	44.2	35.9	826.6
2019	—	507.4	5.5	—	6.4	11.9	15.6	40.5	0.4	575.8
2020	—	349.8	2.7	—	0.8	3.4	—	31.3	—	384.4
2021	—	660.2	6.1	—	5.1	11.3	—	40.0	—	711.5
2022	—	R 1,397.9	85.2	—	52.6	137.8	—	22.3	—	R 1,558.0
2023	—	813.3	12.6	—	7.6	20.2	—	23.9	—	857.4

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[c] Electricity imported from Canada and Mexico.
[d] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET1. Primary energy, electricity, and total energy price and expenditure estimates, selected years, 1970-2023, Michigan

	Primary energy														Electric power sector [i,k,l]	Electricity [m]	Total energy [h,i,j]
	Coal				Petroleum								Biomass				
	Coking coal	Steam coal	Total	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Nuclear fuel	Wood and waste [g,h]	Total [h,i,j,k]			
Year	Prices in dollars per million Btu																
1970	0.55	0.42	0.44	0.77	1.09	1.91	0.74	2.71	0.59	2.10	2.04	0.36	1.01	1.13	0.39	5.55	1.71
1975	2.07	1.04	1.23	1.42	2.49	3.89	2.08	4.72	1.96	3.85	3.75	0.28	1.29	2.23	1.04	9.78	3.34
1980	2.27	1.61	1.71	3.05	6.76	6.85	6.38	10.09	3.90	8.74	8.57	0.49	2.16	4.35	1.71	15.40	6.57
1985	2.08	1.90	1.92	5.70	7.69	9.29	6.09	9.10	4.45	10.98	8.76	0.80	2.30	5.18	1.74	19.88	8.46
1990	1.80	1.62	1.63	4.16	7.40	10.78	5.65	8.78	3.00	9.88	8.45	0.79	1.52	4.46	1.45	20.85	8.08
1995	1.57	1.48	1.48	3.93	6.90	8.98	3.93	8.47	2.61	9.31	7.99	0.65	1.20	4.21	1.40	20.72	7.96
2000	1.66	1.32	1.35	4.44	9.90	12.00	6.51	11.90	3.41	10.45	11.09	0.61	1.26	5.52	1.56	20.89	9.74
2005	3.37	1.63	1.70	8.99	16.53	17.69	13.03	17.69	6.78	14.29	17.00	0.43	3.15	8.60	1.80	21.25	14.53
2006	3.76	1.72	1.81	10.20	18.69	19.67	14.94	19.99	7.67	19.92	19.50	0.40	3.20	9.78	1.79	23.90	16.66
2007	3.70	1.77	1.85	9.62	20.02	21.71	16.47	22.32	8.16	20.93	21.41	0.47	3.40	10.10	1.99	25.04	17.57
2008	4.56	2.03	2.17	10.69	26.39	25.63	22.76	25.57	11.84	26.63	25.55	0.51	4.02	11.50	2.42	26.24	19.53
2009	5.67	2.13	2.26	9.53	16.60	22.98	12.60	18.58	7.79	24.32	18.59	0.66	3.08	9.47	2.20	27.63	16.80
2010	6.18	2.18	2.39	9.24	21.14	23.13	16.23	22.04	9.61	R 21.37	R 21.51	0.78	3.32	R 10.10	2.25	29.05	R 18.34
2011	7.32	2.74	3.00	8.76	27.34	26.05	22.39	28.03	13.26	R 25.92	R 27.29	0.76	3.51	11.83	2.44	30.57	R 20.78
2012	6.96	2.85	3.09	7.38	28.00	22.65	22.99	28.62	14.67	R 25.83	R 27.69	0.79	3.31	R 11.89	2.42	32.29	R 21.36
2013	5.52	2.73	2.89	R 7.57	27.98	22.61	21.97	27.92	13.60	R 23.88	R 27.02	0.80	3.50	R 11.81	2.51	32.89	R 20.35
2014	5.10	2.66	2.81	8.27	27.16	26.61	20.70	26.69	12.74	R 20.31	R 25.99	0.70	R 3.88	R 11.73	2.67	32.38	R 19.89
2015	4.75	2.43	2.58	6.73	18.50	18.26	11.88	19.16	7.37	R 18.73	R 18.49	0.78	R 3.84	R 8.91	2.28	31.57	R 16.44
2016	3.94	2.29	2.37	5.74	15.73	16.46	9.72	17.04	4.66	R 15.71	R 16.17	0.73	R 3.29	R 8.02	2.06	32.44	R 15.59
2017	4.75	2.22	2.40	6.09	18.19	19.58	12.27	19.13	6.44	14.18	18.12	0.68	R 3.34	8.69	2.04	33.12	16.51
2018	5.14	2.17	2.39	5.95	21.92	20.80	15.64	21.21	8.02	16.64	20.60	0.63	R 3.46	9.49	2.15	33.46	17.48
2019	5.89	2.15	2.46	5.62	20.69	17.76	14.37	20.21	7.53	17.44	R 19.54	0.58	R 3.65	8.99	1.90	33.93	16.90
2020	5.13	2.07	2.30	5.29	16.75	15.83	9.10	16.59	5.54	15.12	R 16.13	0.51	R 2.83	7.64	1.66	35.85	R 16.02
2021	5.09	2.09	2.35	6.68	22.33	21.52	13.82	23.43	8.33	R 16.41	22.06	0.56	R 3.44	10.00	2.24	37.98	R 19.38
2022	7.63	2.42	2.91	R 8.73	34.43	24.13	25.27	30.85	14.24	R 19.51	R 29.85	0.54	R 4.71	R 13.62	3.54	38.76	R 23.37
2023	7.94	2.67	3.40	6.89	28.82	21.56	20.34	27.36	11.86	18.93	26.21	0.54	4.53	12.09	2.29	40.17	22.37
	Expenditures in million dollars																
1970	73.4	294.1	367.5	620.2	240.6	44.8	30.4	1,378.2	33.7	176.9	1,904.7	1.5	6.3	2,906.9	-230.3	1,041.7	3,718.3
1975	290.3	634.0	924.3	1,235.6	610.6	109.7	66.8	2,686.4	217.0	273.1	3,963.6	22.2	7.9	6,178.5	-757.9	2,139.6	7,560.3
1980	250.1	1,047.1	1,297.2	2,596.2	1,087.9	171.3	236.9	5,144.7	315.1	681.2	7,637.1	85.1	33.4	11,787.9	-1,385.2	3,647.5	14,050.2
1985	149.7	1,348.3	1,498.1	3,954.1	1,164.6	465.9	223.6	4,466.4	56.0	597.7	6,974.3	115.0	39.1	12,628.5	-1,325.6	4,993.3	16,296.2
1990	51.3	1,233.5	1,284.8	3,569.5	1,050.2	575.4	319.7	4,608.3	43.8	630.7	7,228.1	179.7	58.4	12,358.4	-1,421.6	5,797.5	16,734.2
1995	59.1	1,107.3	1,166.3	3,708.4	1,101.7	479.3	196.3	4,875.1	23.1	650.9	7,326.3	167.9	70.8	12,562.6	-1,514.3	6,636.2	17,684.5
2000	91.0	987.1	1,078.1	4,143.6	1,776.1	734.5	266.3	7,310.1	44.9	850.5	10,982.4	119.6	77.7	16,477.5	-1,658.1	7,400.3	22,219.7
2005	106.9	1,252.6	1,359.5	7,867.7	2,915.6	1,523.0	253.5	10,984.2	93.2	969.4	16,738.9	146.7	198.3	26,406.0	-2,213.4	7,934.7	32,127.3
2006	133.2	1,268.9	1,402.1	7,832.7	3,246.2	1,096.7	349.4	12,242.4	56.6	1,200.9	18,192.1	122.2	193.5	27,763.6	-2,031.2	8,724.5	34,457.0
2007	116.9	1,362.5	1,479.5	7,384.5	3,401.4	1,307.5	492.3	13,317.1	89.5	1,307.7	19,915.5	154.0	206.2	29,244.3	-2,407.0	9,251.2	36,088.5
2008	188.6	1,543.4	1,732.0	8,066.1	4,074.3	1,216.9	598.8	14,543.0	107.3	1,346.0	21,886.3	166.9	254.5	32,499.2	-2,872.4	9,378.2	39,005.0
2009	144.7	1,515.3	1,660.0	6,736.4	R 2,456.6	1,029.3	305.0	10,376.1	29.2	1,211.1	R 15,407.5	150.3	162.1	R 24,429.1	-2,306.2	9,158.8	R 31,281.7
2010	243.3	1,550.0	1,793.3	6,595.8	R 3,227.8	1,063.8	789.8	12,109.9	35.4	R 880.2	R 18,106.8	242.0	202.2	R 27,217.9	-2,586.7	10,171.9	R 34,803.2
2011	291.7	1,782.7	2,074.4	6,520.7	R 4,209.1	1,174.1	1,116.9	15,027.2	57.0	R 940.8	R 22,525.0	260.4	228.9	R 31,787.5	-2,731.9	10,846.5	R 39,902.1
2012	246.4	1,671.4	1,917.8	5,628.3	R 4,144.3	894.3	1,128.4	15,219.1	46.9	R 948.6	R 22,381.7	231.8	215.5	R 30,523.6	-2,606.0	11,422.9	R 39,340.4
2013	209.9	1,691.7	1,901.6	R 6,049.4	R 4,607.9	1,151.9	1,090.1	15,407.8	34.7	R 1,105.7	R 23,398.0	243.2	237.4	R 32,066.1	-2,642.6	11,520.6	R 40,944.1
2014	183.1	1,552.1	1,735.2	R 6,988.1	R 4,544.7	1,407.8	1,028.3	14,733.8	21.9	R 1,171.7	R 22,908.2	227.6	R 268.3	R 32,407.7	-2,815.7	11,364.3	R 40,956.3
2015	183.1	1,408.5	1,591.6	R 5,651.6	R 3,192.8	763.4	659.9	10,794.2	11.8	R 1,080.4	R 16,502.5	240.5	R 266.8	R 24,558.0	-2,490.5	10,992.2	R 33,059.8
2016	84.4	1,030.6	1,115.0	R 5,160.7	R 2,696.3	734.7	551.8	9,774.1	15.0	R 950.2	R 14,722.0	241.2	R 222.3	R 21,694.8	-2,211.0	11,512.6	R 30,996.3
2017	169.0	1,030.7	1,199.7	5,336.7	R 2,893.0	875.0	715.6	10,852.6	29.6	904.3	R 16,270.1	231.7	R 223.6	R 23,441.6	-2,172.1	11,462.3	R 32,731.8
2018	196.2	1,015.3	1,211.5	5,812.4	R 3,948.0	1,081.6	R 890.7	12,060.9	41.9	1,018.2	R 19,041.2	201.6	R 247.4	R 26,753.8	-2,359.0	11,921.5	R 36,316.3
2019	213.5	886.6	1,100.2	5,694.2	R 3,585.9	952.3	R 783.8	11,332.1	43.8	R 1,032.8	R 17,730.7	200.0	R 245.8	R 25,160.8	-2,062.3	11,670.1	R 34,768.7
2020	127.3	641.0	768.3	5,124.1	R 2,622.8	774.7	R 256.1	7,952.8	23.3	R 898.6	R 12,528.2	162.3	R 167.9	R 18,916.3	-1,644.9	11,816.1	R 29,087.6
2021	195.0	830.8	1,025.7	6,092.2	R 3,586.3	1,025.5	R 517.8	12,273.6	44.7	R 1,026.2	R 18,474.2	199.2	R 219.6	R 26,241.9	-2,396.3	12,876.4	R 36,722.0
2022	302.0	928.6	1,230.6	R 9,143.2	R 5,655.9	1,170.4	R 1,048.6	15,897.1	77.5	R 1,348.5	R 25,198.0	145.5	R 305.6	R 36,377.5	R -3,706.9	13,250.0	R 45,920.5
2023	317.8	661.1	978.8	7,381.8	4,637.9	966.9	957.1	14,084.1	53.7	1,205.1	21,904.8	158.7	271.0	30,969.3	-2,327.5	13,315.2	41,957.0

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[l] Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
[m] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.
Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET2. Total end-use energy price and expenditure estimates, selected years, 1970-2023, Michigan

Year	Primary energy											Electricity [k]	Total energy [h,i,j]
			Petroleum							Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g,h]	Total [h,i,j]		
	Prices in dollars per million Btu												
1970	0.57	0.80	1.10	1.91	0.74	2.71	0.56	2.10	2.09	1.01	1.35	5.55	1.71
1975	1.83	1.42	2.50	3.89	2.08	4.72	1.95	3.85	3.93	1.29	2.65	9.78	3.34
1980	2.05	3.05	6.78	6.85	6.38	10.09	3.30	8.74	8.91	2.16	5.47	15.40	6.57
1985	2.05	5.71	7.74	9.29	6.09	9.10	4.39	10.98	8.79	2.30	6.75	19.88	8.46
1990	1.80	4.35	7.44	10.78	5.65	8.78	3.10	9.88	8.51	1.84	6.10	20.85	8.08
1995	1.68	4.17	6.95	8.98	3.93	8.47	2.60	9.31	8.04	1.45	5.81	20.72	7.96
2000	1.64	4.52	9.95	12.00	6.51	11.90	3.64	10.46	11.18	1.68	7.69	20.89	9.74
2005	3.03	9.61	16.59	17.69	13.03	17.69	6.73	14.47	17.10	3.65	13.16	21.25	14.53
2006	3.26	10.92	18.74	19.67	14.94	19.99	7.78	20.31	19.56	3.74	15.11	23.90	16.66
2007	3.26	10.22	20.06	21.71	16.47	22.32	8.43	21.38	21.50	3.96	15.93	25.04	17.57
2008	4.05	10.99	26.41	25.63	22.76	25.57	12.06	27.32	25.61	4.78	18.06	26.24	19.53
2009	5.14	10.22	16.64	22.98	12.60	18.58	7.87	24.94	18.64	3.72	14.45	27.63	16.80
2010	5.23	10.08	21.18	23.13	16.23	22.04	9.78	R 21.99	R 21.56	3.85	R 15.92	29.05	R 18.34
2011	5.97	9.50	27.40	26.05	22.39	28.03	13.26	R 26.50	R 27.33	4.09	R 18.56	30.57	R 20.78
2012	5.84	8.73	28.04	22.65	22.99	28.62	14.63	R 26.44	R 27.73	3.87	R 18.76	32.29	R 21.36
2013	4.83	8.07	28.02	22.61	21.97	27.92	13.56	R 25.75	R 27.13	4.14	R 17.71	32.89	R 20.35
2014	4.57	R 8.54	27.22	26.61	20.70	26.69	12.73	R 24.58	R 26.30	R 4.52	R 17.32	32.38	R 19.89
2015	4.27	7.65	18.54	18.26	11.88	19.16	7.43	R 21.64	R 18.66	R 4.37	R 13.27	31.57	R 16.44
2016	3.61	R 6.92	15.77	16.46	9.72	17.04	4.60	R 17.95	R 16.32	R 3.65	R 11.93	32.44	R 15.59
2017	4.30	7.07	18.22	19.58	12.27	19.13	6.38	17.44	18.38	R 3.83	R 13.00	33.12	16.51
2018	4.66	6.96	21.96	20.80	15.64	21.21	8.00	21.42	20.92	R 4.03	14.17	33.46	17.48
2019	5.35	6.84	20.72	17.76	14.37	20.21	7.51	R 20.68	R 19.75	R 4.28	13.48	33.93	16.90
2020	4.90	6.89	R 16.79	15.83	9.10	16.59	5.51	18.06	R 16.34	R 3.35	11.62	35.85	R 16.02
2021	4.87	7.77	22.40	21.52	13.82	23.43	8.29	R 20.38	22.40	R 4.02	R 15.32	37.98	R 19.38
2022	7.19	R 9.77	R 34.49	24.13	25.27	30.85	14.32	R 26.82	R 30.54	R 5.75	R 20.13	38.76	R 23.37
2023	7.52	9.77	28.87	21.56	20.34	27.36	11.83	23.93	26.65	5.41	18.55	40.17	22.37
	Expenditures in million dollars												
1970	194.1	593.0	237.0	44.8	30.4	1,378.2	15.8	176.9	1,883.2	6.3	2,676.6	1,041.7	3,718.3
1975	467.5	1,174.9	593.3	109.7	65.8	2,686.4	42.2	273.1	3,770.4	7.9	5,420.6	2,139.6	7,560.3
1980	464.9	2,543.0	1,060.3	171.3	236.9	5,144.7	66.9	681.2	7,361.3	33.4	10,402.6	3,647.5	14,050.2
1985	359.8	3,933.4	1,143.6	465.9	223.6	4,466.4	40.8	597.7	6,938.0	39.1	11,302.9	4,993.3	16,296.2
1990	223.9	3,423.9	1,041.1	575.4	319.7	4,608.3	22.9	630.7	7,198.1	54.2	10,936.7	5,797.5	16,734.2
1995	193.7	3,498.7	1,092.3	479.3	196.3	4,875.1	4.9	650.9	7,298.9	57.0	11,048.3	6,636.2	17,684.5
2000	172.4	3,652.4	1,763.2	734.5	266.3	7,310.1	9.5	850.5	10,934.1	60.6	14,819.4	7,400.3	22,219.7
2005	245.8	7,136.4	2,890.1	1,523.0	253.5	10,984.2	46.0	968.2	16,665.0	145.3	24,192.6	7,934.7	32,127.3
2006	261.7	7,176.3	3,221.0	1,096.7	349.4	12,242.4	46.1	1,199.2	18,154.8	139.7	25,732.5	8,724.5	34,457.0
2007	260.0	6,564.7	3,373.4	1,307.5	492.3	13,317.1	64.4	1,305.1	19,859.9	152.7	26,837.3	9,251.2	36,088.5
2008	354.7	7,248.4	4,033.9	1,216.9	598.8	14,543.0	93.0	1,344.0	21,829.6	194.0	29,626.8	9,378.2	39,005.0
2009	274.6	6,355.1	R 2,437.4	1,029.3	305.0	10,376.1	23.2	1,208.6	R 15,379.7	113.6	R 22,122.9	9,158.8	R 31,281.7
2010	375.3	6,033.0	R 3,203.1	1,063.8	789.8	12,109.9	28.8	R 878.0	R 18,073.4	149.6	R 24,631.3	10,171.9	R 34,803.2
2011	422.3	5,983.8	R 4,168.0	1,174.1	1,116.9	15,027.2	53.3	R 937.0	R 22,476.6	172.9	R 29,055.6	10,846.5	R 39,902.1
2012	361.2	5,046.5	R 4,115.2	894.3	1,128.4	15,219.1	42.2	R 944.5	R 22,343.7	166.1	R 27,917.5	11,422.9	R 39,340.4
2013	334.9	R 5,542.4	R 4,578.7	1,151.9	1,090.1	15,407.8	32.2	R 1,100.6	R 23,361.2	184.9	R 29,423.5	11,520.6	R 40,944.1
2014	294.1	R 6,237.8	R 4,512.7	1,407.8	1,028.3	14,733.8	20.6	R 1,156.3	R 22,859.5	R 200.7	R 29,592.0	11,364.3	R 40,956.3
2015	265.9	R 5,118.1	R 3,178.4	763.4	659.9	10,794.2	10.9	R 1,065.6	R 16,472.4	R 211.2	R 22,067.6	10,992.2	R 33,059.8
2016	140.8	R 4,478.4	R 2,683.3	734.7	551.8	9,774.1	14.0	R 939.6	R 14,697.5	R 167.1	R 19,483.8	11,512.6	R 30,996.3
2017	229.9	4,634.4	R 2,879.6	875.0	715.6	10,852.6	27.9	885.5	R 16,236.2	R 169.1	R 21,269.5	11,462.3	R 32,731.8
2018	250.1	4,947.7	R 3,928.9	1,081.6	R 890.7	12,060.9	40.9	996.5	R 18,999.5	R 197.6	R 24,394.8	11,921.5	R 36,316.3
2019	267.5	4,935.0	R 3,572.8	952.3	R 783.8	11,332.1	43.0	R 1,017.4	R 17,701.4	R 194.7	R 23,098.5	11,670.1	R 34,768.7
2020	154.1	4,480.1	R 2,613.2	774.7	R 256.1	7,952.8	22.6	R 886.3	R 12,505.6	R 131.6	R 17,271.4	11,816.1	R 29,087.6
2021	221.6	5,023.5	R 3,564.0	1,025.5	R 517.8	12,273.6	43.4	R 1,010.7	R 18,435.0	R 165.5	R 23,845.6	12,876.4	R 36,722.0
2022	338.5	R 6,939.8	R 5,627.9	1,170.4	R 1,048.6	15,897.1	76.8	R 1,325.7	R 25,146.4	R 245.9	R 32,670.6	13,250.0	R 45,920.5
2023	360.8	6,230.2	4,619.7	966.9	957.1	14,084.1	52.6	1,161.2	21,841.7	209.0	28,641.8	13,315.2	41,957.0

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. · Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2023, Michigan

Year	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
	Prices in dollars per million Btu									
1970	1.43	1.00	1.23	2.04	1.56	1.36	0.57	1.10	6.99	1.73
1975	3.07	1.58	2.51	4.29	3.12	2.80	1.12	1.93	11.32	3.13
1980	3.70	3.13	7.05	8.08	8.43	7.27	2.87	3.72	16.76	5.53
1985	3.86	6.14	7.66	9.63	8.47	8.33	3.24	6.38	21.62	8.74
1990	3.39	4.81	7.57	11.37	9.53	9.43	3.56	5.42	22.95	8.48
1995	3.08	4.53	6.58	9.53	8.79	8.36	2.90	4.99	24.44	8.41
2000	3.06	4.93	9.12	12.07	9.38	11.21	4.41	5.83	24.98	9.46
2005	4.27	10.39	15.71	17.68	15.49	17.33	6.91	11.45	24.63	14.31
2006	4.66	11.76	17.87	19.79	19.69	19.42	7.96	12.63	28.63	16.46
2007	4.31	10.82	19.92	21.70	22.33	21.42	8.79	12.13	29.93	16.30
2008	—	11.65	23.62	25.72	23.47	25.39	10.83	13.21	31.49	17.30
2009	—	11.03	16.15	23.48	23.70	22.61	8.13	12.31	34.01	17.21
2010	—	11.14	20.48	22.90	25.17	22.68	9.60	12.39	36.51	18.42
2011	—	10.33	27.36	25.16	28.49	25.41	11.54	11.89	38.91	18.51
2012	—	9.78	27.27	23.20	29.88	23.58	12.85	11.13	41.43	19.34
2013	—	8.90	28.29	22.56	30.54	23.05	12.58	10.43	42.76	17.87
2014	—	9.16	27.34	27.28	32.87	27.31	12.27	11.14	42.38	17.93
2015	—	8.53	17.90	20.22	16.97	20.02	8.45	9.64	42.27	17.31
2016	—	7.87	15.49	18.27	13.53	18.05	7.22	8.94	44.61	17.85
2017	—	8.01	17.64	21.04	16.92	20.81	8.08	9.35	45.13	17.87
2018	—	7.82	19.24	21.92	26.07	21.76	8.94	9.44	45.27	17.71
2019	—	7.64	18.39	19.15	22.82	19.11	8.60	8.97	46.14	17.08
2020	—	7.78	15.35	17.49	14.82	17.33	7.11	8.78	47.66	R 18.44
2021	—	8.70	19.73	22.77	23.41	22.53	R 8.53	R 10.13	51.39	R 20.62
2022	—	10.69	28.79	26.28	40.66	26.53	R 13.20	12.23	52.33	R 21.54
2023	—	10.91	26.22	23.92	36.32	24.17	12.07	12.33	55.23	22.77
	Expenditures in million dollars									
1970	16.3	345.1	135.5	37.9	4.8	178.2	1.7	541.4	408.1	949.5
1975	8.6	542.8	284.4	92.8	5.3	382.5	3.2	937.2	806.7	1,743.9
1980	5.8	1,236.0	377.7	112.8	4.0	494.5	22.0	1,758.3	1,273.3	3,031.6
1985	5.3	2,143.5	276.2	176.5	20.4	473.0	25.8	2,647.6	1,645.1	4,292.7
1990	4.5	1,644.2	213.4	307.7	11.7	532.9	30.9	2,212.5	1,982.5	4,195.0
1995	2.5	1,792.2	146.1	316.1	11.6	473.7	13.6	2,282.0	2,387.3	4,669.3
2000	0.1	1,879.1	154.0	553.4	18.9	726.3	13.8	2,619.3	2,617.7	5,237.0
2005	1.3	3,783.5	177.8	1,048.1	19.2	1,245.1	55.4	5,085.3	3,032.8	8,118.1
2006	0.1	3,779.8	155.9	720.7	17.1	893.7	56.6	4,730.1	3,381.9	8,112.1
2007	1.8	3,632.5	158.0	909.7	12.1	1,079.8	69.1	4,783.2	3,611.8	8,395.0
2008	—	4,077.1	164.9	1,009.2	6.5	1,180.6	95.3	5,353.0	3,685.4	9,038.4
2009	—	3,686.6	84.8	895.2	9.6	989.5	48.0	4,724.0	3,812.7	8,536.7
2010	—	3,445.0	79.7	804.0	9.1	892.7	60.7	4,398.4	4,320.8	8,719.2
2011	—	3,329.5	105.8	837.7	7.5	951.0	70.8	4,351.3	4,621.2	8,972.4
2012	—	2,753.9	72.2	628.7	2.6	703.5	65.8	3,523.2	4,871.0	8,394.3
2013	—	3,038.0	R 91.6	831.7	3.9	R 927.2	84.1	R 4,049.3	4,962.4	R 9,011.7
2014	—	3,309.5	R 110.6	1,078.5	6.6	R 1,195.7	83.0	R 4,588.2	4,846.5	R 9,434.7
2015	—	2,749.6	R 52.9	666.5	2.8	R 722.2	100.4	R 3,572.1	4,810.8	R 8,383.0
2016	—	2,415.0	R 41.2	633.9	2.2	R 677.3	R 68.6	R 3,160.9	5,258.1	R 8,419.0
2017	—	2,506.9	R 44.1	734.0	1.2	R 779.3	R 76.3	R 3,362.5	5,078.0	R 8,440.5
2018	—	2,677.8	R 53.1	935.2	1.7	R 990.1	R 102.7	R 3,770.6	5,426.8	R 9,197.5
2019	—	2,684.6	R 56.6	829.9	2.5	R 889.0	R 101.4	R 3,675.1	5,273.1	R 8,948.2
2020	—	2,509.6	R 43.9	635.6	1.6	R 681.0	R 57.6	R 3,248.3	5,831.5	R 9,079.7
2021	—	2,726.5	57.7	781.6	2.4	R 841.7	R 71.5	R 3,639.7	6,289.8	R 9,929.5
2022	—	3,717.7	R 89.1	886.3	3.9	979.2	R 139.4	R 4,836.3	6,256.0	R 11,092.3
2023	—	3,270.8	77.0	795.0	6.0	878.1	108.3	4,257.2	6,130.3	10,387.5

[a] Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2023, Michigan

Year	Primary energy										Electricity [j]	Total energy [g,h,i]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f,g]	Total [g,h,i]		
	Prices in dollars per million Btu											
1970	0.53	0.83	1.05	1.37	0.74	2.71	0.64	1.22	0.57	0.88	7.12	2.14
1975	1.49	1.45	2.33	2.42	2.44	4.72	1.97	2.69	1.12	1.62	11.41	3.40
1980	1.82	3.13	6.53	4.94	6.14	10.09	3.97	6.91	2.87	3.52	17.60	6.37
1985	2.00	5.61	6.30	8.12	8.47	9.10	4.39	6.78	3.24	5.65	23.36	10.09
1990	1.77	4.44	5.63	9.19	9.53	8.78	3.15	6.74	2.34	4.57	24.21	10.07
1995	1.71	4.28	4.48	7.78	8.79	8.47	2.57	5.52	1.37	4.25	23.27	10.50
2000	1.61	4.63	7.42	11.06	9.38	11.90	3.70	8.76	1.41	4.86	23.36	11.75
2005	2.80	9.24	14.44	16.32	15.49	17.69	6.70	15.27	3.58	9.38	22.98	14.90
2006	2.87	10.56	16.66	18.12	19.69	19.99	7.89	17.25	3.30	10.81	24.94	16.97
2007	2.96	9.80	18.37	19.57	22.33	22.32	—	18.95	3.80	10.02	25.72	16.65
2008	4.61	10.41	24.66	23.30	23.47	25.57	12.41	23.80	4.38	10.83	26.89	17.30
2009	5.95	9.18	14.68	18.64	23.70	18.58	7.98	15.83	2.67	9.31	27.09	16.52
2010	5.07	8.81	18.49	19.61	25.17	22.04	11.66	18.65	2.95	9.11	28.76	17.50
2011	5.04	9.02	24.65	22.93	28.49	28.03	15.63	23.88	3.26	9.63	30.28	18.20
2012	5.37	8.21	24.51	16.88	29.88	28.62	16.91	22.34	2.77	8.85	32.05	19.11
2013	5.14	7.66	24.68	17.98	30.54	27.92	16.68	22.75	2.99	8.42	32.43	17.99
2014	5.10	8.13	23.28	20.20	32.87	26.69	15.95	24.96	R 3.12	9.98	31.86	17.92
2015	4.42	7.27	13.83	11.30	16.97	19.16	10.27	16.09	R 3.11	8.02	30.93	R 17.03
2016	4.27	6.62	11.25	10.51	13.53	17.04	7.32	R 14.01	R 2.05	7.22	31.17	16.97
2017	—	6.71	14.02	14.41	16.92	19.13	9.80	16.48	R 2.19	7.64	32.25	17.39
2018	—	6.60	17.15	15.84	26.07	21.21	11.12	18.89	R 2.57	7.68	32.67	R 17.18
2019	—	6.44	15.69	12.08	22.82	20.21	—	17.09	R 4.54	7.54	33.39	R 17.14
2020	—	6.47	10.60	11.25	14.82	16.59	—	13.46	R 4.86	7.30	34.32	R 17.60
2021	—	7.43	16.89	18.41	23.41	23.43	12.53	20.18	R 5.68	9.01	36.07	19.52
2022	—	9.45	28.57	19.53	40.66	30.85	20.03	27.05	R 8.77	11.47	36.78	20.79
2023	—	9.45	21.77	15.16	36.32	27.36	17.98	23.15	8.16	11.02	39.27	21.97
	Expenditures in million dollars											
1970	4.8	111.4	21.4	2.3	1.7	11.4	2.2	39.1	(s)	155.3	316.4	471.7
1975	9.8	269.8	48.7	4.8	3.1	23.7	4.8	85.1	0.1	364.7	568.1	932.8
1980	10.8	606.7	118.8	6.3	0.5	43.6	5.6	174.9	0.5	792.9	1,006.9	1,799.7
1985	9.6	905.1	89.9	13.6	0.6	33.4	7.6	145.1	0.6	1,060.7	1,468.2	2,528.8
1990	9.4	738.5	65.9	22.8	1.0	35.5	1.4	126.6	4.4	879.3	1,815.9	2,695.2
1995	9.3	864.6	42.7	23.7	5.1	3.4	0.1	75.0	4.4	953.3	2,552.9	3,506.2
2000	0.5	896.6	68.1	46.5	1.7	9.8	0.1	126.3	4.7	1,028.1	2,932.2	3,960.2
2005	9.6	1,638.0	106.4	58.5	2.5	19.1	0.2	186.6	16.0	1,850.2	3,104.6	4,954.8
2006	0.5	1,654.4	129.2	63.7	2.9	9.4	0.1	205.3	15.7	1,875.9	3,344.5	5,220.4
2007	11.2	1,640.7	119.9	68.4	1.0	9.4	—	198.7	19.1	1,869.7	3,513.9	5,383.6
2008	22.4	1,834.7	150.3	89.3	1.0	10.9	4.4	255.9	23.6	2,136.6	3,575.2	5,711.8
2009	38.0	1,535.3	115.2	49.4	1.1	12.0	0.6	178.2	12.4	1,763.9	3,500.7	5,264.7
2010	23.3	1,363.5	120.6	51.7	1.9	9.2	5.6	189.0	15.0	1,590.8	3,740.7	5,331.5
2011	20.5	1,495.0	176.4	57.6	1.5	11.3	9.7	256.4	16.7	1,788.5	3,989.0	5,777.5
2012	11.4	1,207.5	165.7	48.7	0.6	11.4	5.0	231.3	17.4	1,467.7	4,211.4	5,679.0
2013	8.9	1,341.3	R 190.5	65.1	1.2	11.4	0.1	R 268.4	16.2	R 1,634.8	4,170.8	R 5,805.5
2014	8.1	1,543.5	R 156.1	72.1	1.8	432.0	0.4	R 662.3	R 17.8	R 2,231.7	4,060.0	R 6,291.7
2015	5.2	1,264.4	R 106.6	31.8	0.8	193.6	0.2	R 333.0	R 20.8	R 1,623.4	4,057.3	R 5,680.6
2016	1.5	1,094.4	R 73.6	38.3	0.8	173.7	(s)	R 286.4	R 15.2	R 1,397.5	4,146.8	R 5,544.3
2017	—	1,141.7	R 108.3	59.2	1.0	197.9	(s)	R 366.5	R 15.3	R 1,523.4	4,217.0	R 5,740.5
2018	—	1,246.1	R 106.0	69.9	0.8	223.0	0.5	R 400.2	R 16.8	R 1,663.1	4,339.3	R 6,002.4
2019	—	1,238.2	R 128.4	52.6	1.2	214.0	—	R 396.2	R 14.7	R 1,649.2	4,313.0	R 5,962.2
2020	—	1,100.9	R 68.3	77.1	0.9	176.9	—	R 323.3	R 12.3	R 1,436.5	4,156.5	R 5,593.0
2021	—	1,270.2	R 110.9	138.4	1.0	252.4	0.2	R 503.0	R 14.4	R 1,787.6	4,537.1	R 6,324.7
2022	—	1,792.7	R 195.8	137.2	1.7	341.4	0.4	R 676.5	R 22.1	R 2,491.3	4,657.6	R 7,148.9
2023	—	1,621.5	141.6	75.1	2.6	309.6	0.3	529.2	20.4	2,171.1	4,894.8	7,065.8

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[g] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[j] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: Expenditure totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2023, Michigan

	Primary energy													
	Coal				Petroleum						Biomass			
	Coking coal	Steam coal	Total	Natural gas [a]	Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e,f]	Total [f,g,h]	Electricity [i]	Total energy [f,g,h]
Year	Prices in dollars per million Btu													
1970	0.55	0.53	0.54	0.53	0.68	1.44	2.71	0.54	1.81	1.35	1.44	0.71	3.74	1.02
1975	2.07	1.49	1.82	1.22	2.27	2.63	4.72	1.98	3.41	2.90	1.44	1.78	7.83	2.54
1980	2.27	1.82	2.04	2.87	5.56	5.38	10.09	3.23	7.97	6.67	1.43	3.35	13.18	4.81
1985	2.08	2.00	2.03	4.95	6.38	9.12	9.10	4.39	9.78	8.44	1.43	4.65	16.75	6.99
1990	1.80	1.77	1.78	3.72	5.54	10.24	8.78	3.15	8.02	7.71	1.00	4.02	17.15	6.40
1995	1.57	1.71	1.67	3.48	4.67	7.91	8.47	2.57	7.47	7.00	1.24	3.67	15.02	5.81
2000	1.66	1.61	1.64	3.76	9.30	11.76	11.90	3.70	8.75	9.20	1.42	4.41	14.93	6.58
2005	3.37	2.80	3.03	8.50	15.08	17.68	17.69	6.70	11.56	13.68	2.71	8.54	15.61	10.06
2006	3.76	2.87	3.26	9.72	17.22	19.59	19.99	7.89	16.69	17.24	2.65	9.85	17.72	11.64
2007	3.70	2.96	3.27	9.26	18.71	22.05	22.32	8.59	17.43	18.33	2.52	10.12	18.96	12.30
2008	4.56	3.47	4.02	10.02	25.37	26.36	25.57	12.41	22.38	22.92	2.84	11.08	19.71	13.24
2009	5.67	4.27	5.03	9.43	15.02	20.42	18.58	7.98	19.97	18.27	2.66	10.55	20.47	13.11
2010	6.18	3.92	5.24	9.10	18.88	25.18	22.04	11.66	R 17.53	R 19.13	2.69	R 9.96	20.75	R 12.70
2011	7.32	4.10	6.03	8.16	25.50	30.11	28.03	15.63	R 20.84	R 24.00	2.75	R 10.55	21.46	R 13.33
2012	6.96	4.24	5.85	7.26	25.70	22.84	28.62	16.91	R 21.07	R 23.19	2.63	R 9.90	22.34	R 13.08
2013	5.52	3.93	4.82	6.83	25.10	24.40	27.92	16.68	R 21.09	R 23.14	2.60	R 9.60	22.61	R 12.65
2014	5.10	3.83	4.56	7.70	23.42	26.27	26.69	15.95	R 20.19	R 22.14	3.13	R 9.84	22.50	R 12.86
2015	4.75	3.44	4.27	6.39	15.04	10.56	19.16	10.27	R 17.01	R 16.18	3.02	R 8.01	20.59	R 10.91
2016	3.94	3.17	3.60	5.51	12.10	9.71	17.04	7.32	R 13.63	R 13.26	2.88	R 7.05	20.25	R 10.24
2017	4.75	3.40	4.30	5.71	14.63	13.62	19.13	9.80	13.34	14.26	2.79	7.29	21.09	10.54
2018	5.14	3.48	4.66	5.71	17.76	15.04	21.21	11.12	16.77	17.42	2.52	7.89	20.81	10.90
2019	5.89	3.92	5.35	5.68	16.73	11.25	20.21	11.32	16.35	16.50	2.58	7.92	20.73	10.85
2020	5.13	4.03	4.90	5.52	12.33	10.42	16.59	8.38	14.24	13.75	2.16	7.30	21.23	10.44
2021	5.09	3.71	4.87	6.33	17.42	17.52	23.43	12.53	R 16.05	R 17.23	2.63	R 8.53	22.54	R 11.64
2022	7.63	4.88	7.19	R 8.33	28.51	18.58	30.85	20.03	R 21.48	R 24.00	R 2.85	R 11.60	24.41	R 14.47
2023	7.94	5.43	7.52	8.08	23.46	14.18	27.36	17.98	19.41	20.86	2.96	10.78	23.90	13.79
	Expenditures in million dollars													
1970	73.4	99.3	172.7	136.5	33.3	4.3	39.2	12.0	121.7	210.6	4.5	524.3	317.2	841.5
1975	290.3	158.8	449.1	362.3	115.9	11.2	46.9	32.6	198.7	405.3	4.6	1,221.3	764.8	1,986.1
1980	250.1	198.2	448.3	700.3	155.7	49.7	51.3	56.3	525.9	838.9	10.8	1,998.3	1,367.4	3,365.7
1985	149.7	195.2	344.9	884.9	163.4	264.8	57.0	30.5	418.4	934.1	12.7	2,177.0	1,880.0	4,057.0
1990	51.3	158.6	209.9	1,041.2	127.7	232.9	45.0	20.1	418.8	844.4	18.8	2,114.8	1,999.1	4,113.9
1995	59.1	122.8	181.9	841.7	93.6	128.3	57.8	3.3	434.1	717.1	39.1	1,779.8	1,695.7	3,475.4
2000	91.0	80.8	171.8	875.1	219.3	118.9	65.6	8.4	601.7	1,014.0	42.1	2,102.9	1,850.1	3,953.0
2005	106.9	128.0	234.9	1,713.7	304.6	375.8	205.5	37.3	660.8	1,584.1	73.9	3,606.7	1,796.7	5,403.4
2006	133.2	127.9	261.1	1,741.0	301.6	292.4	246.5	35.1	834.5	1,710.2	67.4	3,779.6	1,997.7	5,777.3
2007	116.9	130.0	246.9	1,291.0	341.0	303.0	254.5	50.1	908.8	1,857.5	64.5	3,459.9	2,125.0	5,584.9
2008	188.6	143.7	332.3	1,335.3	500.4	86.7	245.8	74.3	920.3	1,827.5	75.1	3,570.2	2,117.1	5,687.3
2009	144.7	92.0	236.6	1,132.2	267.9	64.3	136.4	16.2	820.2	1,305.0	53.2	2,727.0	1,844.8	4,571.9
2010	243.3	108.8	352.0	1,223.1	351.3	204.0	140.0	10.8	R 609.5	R 1,315.6	73.8	R 2,964.6	2,109.9	R 5,074.5
2011	291.7	110.1	401.8	1,154.9	472.1	274.2	171.1	20.9	R 636.3	R 1,574.6	85.4	R 3,216.8	2,235.9	R 5,452.7
2012	246.4	103.3	349.8	1,081.0	418.1	214.1	190.6	19.8	R 663.2	R 1,505.8	82.9	R 3,019.5	2,340.0	R 5,359.4
2013	209.9	116.1	326.0	1,158.9	480.2	250.8	195.6	14.3	R 803.9	R 1,744.8	84.6	R 3,314.4	2,386.9	R 5,701.3
2014	183.1	102.8	286.0	1,378.8	428.2	252.2	129.5	7.2	R 856.9	R 1,674.0	99.9	R 3,438.7	2,457.3	R 5,896.0
2015	183.1	77.6	260.7	1,099.9	329.3	60.8	151.0	4.6	R 751.5	R 1,297.3	90.0	R 2,747.9	2,123.7	R 4,871.6
2016	84.4	54.9	139.3	963.4	272.5	57.6	137.6	1.1	R 647.4	R 1,116.2	83.3	R 2,302.2	2,107.2	R 4,409.4
2017	169.0	60.8	229.9	985.8	294.7	68.2	155.8	1.1	619.9	1,139.6	77.4	2,432.6	2,166.6	4,599.2
2018	196.2	54.0	250.1	1,023.7	383.9	66.1	176.1	1.8	707.7	1,335.6	78.1	2,687.5	2,154.6	4,842.1
2019	213.5	54.0	267.5	1,012.1	359.9	60.5	166.0	1.6	736.8	1,324.9	78.5	2,683.0	2,083.3	R 4,766.3
2020	127.3	26.9	154.1	869.6	236.0	55.2	136.8	1.3	R 647.8	R 1,077.1	61.7	R 2,162.5	1,827.7	R 3,990.2
2021	195.0	26.7	221.6	1,026.8	371.8	93.1	185.5	1.8	R 735.5	R 1,387.7	79.6	R 2,715.7	2,049.1	R 4,764.8
2022	302.0	36.5	338.5	R 1,429.3	615.1	135.3	257.9	2.9	R 976.2	R 1,987.6	R 84.5	R 3,839.8	2,335.9	R 6,175.7
2023	317.8	43.1	360.8	1,337.9	494.2	88.5	223.3	2.2	881.1	1,689.2	80.3	3,468.3	2,289.4	5,757.7

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[i] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET6. Transportation sector energy price and expenditure estimates, selected years, 1970-2023, Michigan

	Primary energy												
			Petroleum										
	Coal	Natural gas[a]	Aviation gasoline	Distillate fuel oil[b]	HGL[c]	Jet fuel[d]	Lubricants	Motor gasoline[e]	Residual fuel oil	Total	Total[f]	Electricity[g]	Total energy[f]
Year	Prices in dollars per million Btu												
1970	0.53	—	2.17	1.27	1.37	0.74	5.08	2.71	0.57	2.50	2.50	—	2.50
1975	1.49	—	3.45	2.77	2.42	2.08	7.48	4.72	1.76	4.46	4.46	—	4.46
1980	—	—	9.02	7.19	4.94	6.38	14.36	10.09	3.49	9.63	9.63	—	9.63
1985	—	—	9.99	8.55	9.88	6.09	18.18	9.10	4.38	8.97	8.97	—	8.97
1990	—	1.94	9.32	8.24	11.00	5.65	20.61	8.78	2.42	8.61	8.61	—	8.61
1995	—	2.96	8.36	7.68	12.14	3.93	21.75	8.47	2.66	8.21	8.21	21.13	8.21
2000	—	6.82	10.87	10.36	15.36	6.51	23.20	11.90	3.23	11.50	11.50	19.41	11.50
2005	—	11.48	18.56	17.01	20.79	13.03	35.22	17.69	6.89	17.62	17.62	38.32	17.62
2006	—	10.80	22.31	19.10	22.43	14.94	43.88	19.99	7.46	19.90	19.90	29.48	19.90
2007	—	5.96	23.70	20.33	24.62	16.47	47.16	22.32	7.90	21.96	21.96	28.60	21.96
2008	—	7.75	27.23	26.83	28.57	22.76	55.12	25.57	10.46	25.96	25.95	34.66	25.95
2009	—	3.99	20.32	17.04	23.40	12.60	56.07	18.58	7.59	18.47	18.46	31.62	18.46
2010	—	5.11	25.19	21.70	25.72	16.23	58.80	22.04	8.07	21.77	21.77	31.20	21.77
2011	—	13.06	31.64	27.85	28.95	22.39	69.54	28.03	11.02	27.79	27.78	25.00	27.78
2012	—	12.09	33.04	28.57	21.78	22.99	72.11	28.62	12.27	28.41	28.40	23.69	28.40
2013	—	R 11.88	32.71	28.62	23.09	21.97	69.42	27.92	11.78	27.84	27.83	25.69	27.83
2014	—	R 13.24	33.16	27.91	25.71	20.70	69.44	26.69	11.38	26.73	26.72	27.62	26.72
2015	—	R 13.32	24.86	19.36	15.17	11.88	67.28	19.16	6.13	18.93	R 18.93	33.53	R 18.93
2016	—	R 13.37	21.62	16.58	14.24	9.72	65.78	17.04	4.45	16.63	16.63	34.10	16.63
2017	—	—	24.13	19.06	19.73	12.27	67.25	19.13	6.29	18.75	18.75	35.14	18.75
2018	—	—	27.04	22.82	20.35	15.64	72.37	21.21	7.86	21.28	21.28	31.53	21.28
2019	—	R —	25.57	21.69	16.82	14.37	74.92	20.21	7.41	R 20.23	R 20.23	30.94	R 20.23
2020	—	R —	22.34	17.81	15.78	9.10	75.34	16.59	5.40	R 16.71	R 16.71	33.37	R 16.72
2021	—	R —	28.86	23.57	24.66	13.82	81.25	23.43	8.16	R 23.09	R 23.09	36.06	R 23.09
2022	—	R —	36.02	35.91	24.65	25.27	97.37	30.85	14.14	R 31.69	R 31.64	36.21	R 31.64
2023	—	—	32.62	30.17	19.96	20.34	105.48	27.36	11.64	27.59	27.56	40.07	27.56
	Expenditures in million dollars												
1970	0.3	—	7.9	46.9	0.3	30.4	40.8	1,327.5	1.5	1,455.3	1,455.6	—	1,455.6
1975	0.1	—	6.0	144.2	0.9	65.8	60.0	2,615.8	4.7	2,897.4	2,897.5	—	2,897.5
1980	—	—	22.2	408.1	2.4	236.9	128.6	5,049.8	5.1	5,853.1	5,853.1	—	5,853.1
1985	—	—	10.1	614.1	11.0	223.6	148.2	4,376.0	2.7	5,385.8	5,417.7	—	5,417.7
1990	—	(s)	10.1	634.1	12.0	319.7	189.1	4,527.8	1.4	5,694.1	5,730.2	—	5,730.2
1995	—	0.2	9.8	809.9	11.2	196.3	190.4	4,813.9	1.6	6,033.0	6,033.3	0.3	6,033.6
2000	—	1.6	11.2	1,321.7	15.7	266.3	216.9	7,234.7	1.0	9,067.5	9,069.1	0.3	9,069.4
2005	—	1.2	7.9	2,301.2	40.6	253.5	277.8	10,759.7	8.5	13,649.1	13,650.4	0.7	13,651.0
2006	—	1.2	7.6	2,634.3	19.9	349.4	337.2	11,986.5	10.9	15,345.7	15,346.8	0.4	15,347.2
2007	—	0.6	9.0	2,754.5	26.3	492.3	374.2	13,053.2	14.3	16,723.8	16,724.4	0.5	16,724.9
2008	—	1.3	10.1	3,218.2	31.7	598.8	406.1	14,286.3	14.4	18,565.7	18,566.9	0.6	18,567.5
2009	—	1.0	6.4	R 1,969.5	20.4	305.0	371.4	10,227.8	6.4	R 12,906.9	R 12,907.9	0.6	R 12,908.5
2010	—	1.3	15.0	R 2,651.5	4.2	789.8	242.5	11,960.6	12.5	R 15,676.1	R 15,677.4	0.5	15,678.0
2011	—	4.4	17.7	R 3,413.8	4.7	1,116.9	274.0	14,844.8	22.7	R 19,694.6	R 19,699.0	0.5	R 19,699.5
2012	—	4.1	17.1	R 3,459.2	2.9	1,128.4	261.0	15,017.2	17.4	R 19,903.1	R 19,907.2	0.6	R 19,907.7
2013	—	R 4.2	15.3	R 3,816.4	4.2	1,090.1	276.2	15,200.8	17.8	R 20,420.8	R 20,425.0	0.5	R 20,425.5
2014	—	R 6.0	11.0	R 3,817.8	5.0	1,028.3	280.1	14,172.3	13.0	R 19,327.5	R 19,333.5	0.4	R 19,333.9
2015	—	R 4.2	9.3	R 2,689.6	4.3	659.9	301.1	10,449.6	6.2	R 14,120.0	R 14,124.1	0.5	R 14,124.6
2016	—	R 5.6	8.1	R 2,296.1	4.8	551.8	281.2	9,462.8	12.8	R 12,617.6	R 12,623.2	0.5	R 12,623.6
2017	—	—	9.1	R 2,432.5	13.6	715.6	254.4	10,498.9	26.8	R 13,950.9	R 13,950.9	0.7	R 13,951.6
2018	—	—	11.4	R 3,385.8	10.4	R 890.7	274.9	11,661.8	38.6	R 16,273.6	R 16,273.6	0.7	R 16,274.3
2019	—	—	11.3	3,028.0	9.2	R 783.8	R 265.6	10,952.0	41.4	R 15,091.3	R 15,091.3	0.7	R 15,092.0
2020	—	—	8.6	R 2,265.0	6.9	R 256.1	R 227.4	7,639.1	21.2	R 10,424.2	R 10,424.2	0.5	R 10,424.7
2021	—	—	13.0	R 3,023.5	12.5	R 517.8	R 258.8	11,835.6	41.4	R 15,702.6	R 15,702.6	0.4	R 15,703.0
2022	—	R —	16.8	R 4,727.9	11.6	R 1,048.6	R 327.0	15,297.8	73.5	R 21,503.1	R 21,503.1	0.5	R 21,503.7
2023	—	—	14.4	3,907.0	8.3	957.1	257.0	13,551.2	50.2	18,745.2	18,745.2	0.7	18,746.0

[a] Transportation use of natural gas as vehicle fuel only.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET7. Electric power sector price and expenditure estimates, selected years, 1970-2023, Michigan

Year	Coal	Natural gas [a]	Petroleum: Distillate fuel oil	Petroleum: Petroleum coke	Petroleum: Residual fuel oil	Petroleum: Total	Nuclear fuel	Biomass: Wood and waste [b]	Electricity imports [c]	Total energy [d]
	Prices in dollars per million Btu									
1970	0.36	0.42	0.65	—	0.63	0.63	0.36	—	1.92	0.39
1975	0.92	1.28	2.05	—	1.97	1.98	0.28	—	3.89	1.04
1980	1.56	2.74	6.07	—	4.10	4.24	0.49	—	6.94	1.71
1985	1.88	4.43	5.60	—	4.64	5.15	0.80	—	9.34	1.74
1990	1.60	2.11	4.60	—	2.89	3.26	0.79	0.46	8.37	1.45
1995	1.45	2.00	3.90	—	2.62	2.94	0.65	0.70	6.21	1.40
2000	1.30	3.90	5.91	0.65	3.35	3.77	0.61	0.67	16.78	1.56
2005	1.55	5.51	11.78	1.21	6.83	7.35	0.43	2.28	16.53	1.80
2006	1.64	5.95	14.40	1.31	7.20	8.38	0.40	2.32	17.32	1.79
2007	1.69	6.53	16.41	1.78	7.55	8.60	0.47	2.42	18.25	1.99
2008	1.93	8.62	24.38	1.46	10.59	13.01	0.51	2.66	18.28	2.42
2009	2.03	4.48	12.98	1.91	7.50	7.68	0.66	2.20	12.10	2.20
2010	2.09	4.90	16.76	1.70	8.93	9.63	0.78	2.40	13.31	2.25
2011	2.66	4.69	22.17	4.01	13.28	15.80	0.76	2.44	11.53	2.44
2012	2.78	3.16	22.67	4.10	15.06	14.55	0.79	2.21	9.51	2.42
2013	2.66	4.49	22.75	1.43	14.07	7.32	0.80	2.26	11.49	2.51
2014	2.60	6.57	21.30	1.45	12.93	3.98	0.70	2.73	13.31	2.67
2015	2.39	3.12	12.86	1.76	6.72	3.11	0.78	2.62	10.54	2.28
2016	2.25	2.71	10.50	1.30	5.76	2.57	0.73	2.54	8.74	2.06
2017	2.17	3.18	13.01	1.44	7.56	2.38	0.68	2.40	9.18	2.04
2018	2.12	3.25	15.72	1.48	9.07	2.61	0.63	2.22	10.74	2.15
2019	2.09	2.60	13.95	1.54	8.71	2.65	0.58	2.33	9.20	1.90
2020	2.03	2.03	9.67	1.19	6.42	1.97	0.51	1.80	8.38	1.66
2021	2.06	4.03	15.39	1.20	9.67	2.70	0.56	2.39	12.82	2.24
2022	2.37	R 6.53	25.93	1.16	9.01	2.47	0.54	2.69	19.84	3.54
2023	2.58	2.66	19.60	2.89	13.56	3.91	0.54	2.93	18.72	2.29
	Expenditures in million dollars									
1970	173.4	27.2	3.6	—	17.9	21.5	1.5	—	6.7	230.3
1975	456.8	60.7	18.4	—	174.9	193.2	22.2	—	24.9	757.9
1980	832.3	53.2	27.5	—	248.2	275.7	85.1	—	138.9	1,385.2
1985	1,138.3	20.6	21.1	—	15.2	36.3	115.0	—	15.5	1,325.6
1990	1,061.0	145.6	9.1	—	20.9	30.0	179.7	4.2	1.1	1,421.6
1995	972.6	209.6	9.3	—	18.1	27.4	167.9	13.8	122.9	1,514.3
2000	905.7	491.2	12.9	(s)	35.4	48.3	119.6	17.1	76.1	1,658.1
2005	1,113.7	731.4	25.5	1.2	47.2	73.9	146.7	53.0	94.8	2,213.4
2006	1,140.4	656.5	25.2	1.6	10.5	37.3	122.2	53.8	21.1	2,031.2
2007	1,219.5	819.7	28.0	2.6	25.1	55.6	154.0	53.5	104.7	2,407.0
2008	1,377.3	817.7	40.5	2.0	14.3	56.7	166.9	60.5	393.2	2,872.4
2009	1,385.4	381.3	19.3	2.6	6.0	27.8	150.3	48.5	312.9	2,306.2
2010	1,418.0	562.8	24.7	2.1	6.6	33.4	242.0	52.6	277.8	2,586.7
2011	1,652.1	536.8	41.0	3.8	3.7	48.5	260.4	56.0	178.0	2,731.9
2012	1,556.6	581.8	29.1	4.2	4.8	38.1	231.8	49.4	148.4	2,606.0
2013	1,566.7	507.0	29.2	5.1	2.5	36.8	243.2	52.5	236.4	2,642.6
2014	1,441.1	750.3	32.0	15.4	1.3	48.7	227.6	67.6	280.4	2,815.7
2015	1,325.7	533.5	14.4	14.8	0.9	30.1	240.5	55.6	305.0	2,490.5
2016	974.2	682.2	12.9	10.6	1.0	24.5	241.2	55.3	233.6	2,211.0
2017	969.8	702.3	13.4	18.8	1.7	33.9	231.7	54.5	179.7	2,172.1
2018	961.4	864.7	19.1	21.7	1.0	41.7	201.6	49.9	239.6	2,359.0
2019	832.7	759.2	13.1	15.4	0.8	29.3	200.0	51.2	189.9	2,062.3
2020	614.1	644.0	9.6	12.3	0.7	22.6	162.3	36.3	165.6	1,644.9
2021	804.1	1,068.7	22.4	15.5	1.3	39.2	199.2	54.2	231.0	2,396.3
2022	892.2	R 2,203.4	28.0	22.8	0.8	51.6	145.5	59.7	354.6	R 3,706.9
2023	618.0	1,151.6	18.2	43.9	1.1	63.1	158.7	62.0	274.1	2,327.5

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[c] Electricity imported from Canada and Mexico.
[d] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET1. Primary energy, electricity, and total energy price and expenditure estimates, selected years, 1970-2023, Minnesota

Year	Primary energy														Electric power sector [i,k,l]	Electricity [m]	Total energy [h,i,j]
	Coal			Natural gas [a]	Petroleum							Nuclear fuel	Biomass				
	Coking coal	Steam coal	Total		Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total		Wood and waste [g,h]	Total [h,i,j,k]			
	Prices in dollars per million Btu																
1970	0.53	0.42	0.43	0.66	1.08	1.80	0.75	2.97	0.59	1.38	2.02	—	0.98	1.28	0.34	6.10	1.87
1975	1.80	0.68	0.83	1.17	2.51	3.74	2.09	4.63	1.80	2.97	3.59	0.24	1.32	2.13	0.53	8.64	3.18
1980	—	1.11	1.11	2.85	6.72	5.98	6.47	9.55	3.52	6.01	7.95	0.44	1.98	4.42	0.97	13.26	6.90
1985	—	1.51	1.51	5.13	7.57	8.51	5.93	9.73	4.05	7.13	8.49	0.50	2.17	5.31	1.32	15.81	8.39
1990	—	1.31	1.31	3.87	7.94	9.24	5.68	9.56	2.50	5.60	8.40	0.48	1.27	4.56	1.12	15.68	8.06
1995	—	1.21	1.21	3.73	7.00	8.05	4.00	9.48	2.41	5.65	7.85	0.48	1.22	4.43	1.25	16.40	7.75
2000	—	1.16	1.16	5.86	9.98	11.29	6.53	12.30	3.84	6.44	10.39	0.45	1.42	6.23	1.87	17.26	9.88
2005	—	1.18	1.18	9.93	16.49	16.91	13.02	17.59	6.39	7.63	15.70	0.46	2.75	9.48	2.30	19.43	14.45
2006	—	1.28	1.28	9.86	18.95	18.76	14.70	20.23	7.96	11.46	18.39	0.46	2.77	10.58	2.47	20.51	16.08
2007	—	1.55	1.55	9.31	20.83	20.88	16.16	22.54	8.06	13.47	20.45	0.51	2.51	11.34	2.68	21.85	17.12
2008	—	1.73	1.73	9.99	26.66	24.74	22.79	25.55	10.50	15.47	24.47	0.48	2.96	12.95	2.65	22.89	19.06
2009	—	1.73	1.73	7.30	17.29	19.95	12.70	19.17	7.53	19.82	18.16	0.71	2.59	9.65	2.21	23.91	R 15.37
2010	—	1.82	1.82	7.00	21.10	20.47	16.39	22.99	8.60	R 21.08	R 21.62	0.84	3.10	R 10.89	2.42	24.72	R 17.05
2011	—	2.01	2.01	7.01	27.39	22.63	22.76	29.32	13.74	R 24.18	R 27.49	0.90	3.48	R 13.20	2.46	25.43	R 19.85
2012	—	2.09	2.09	5.56	R 28.10	18.20	23.15	29.43	12.62	R 25.48	R 27.75	0.91	3.26	R 13.33	2.32	26.06	R 20.08
2013	—	2.12	2.12	6.26	28.00	18.55	22.48	28.89	10.29	R 24.57	R 27.15	0.97	3.55	R 13.34	2.65	27.69	R 19.75
2014	—	2.05	2.05	7.88	R 27.08	23.32	20.59	27.25	10.39	R 25.72	R 26.28	0.90	R 3.69	R 12.97	2.51	28.04	R 19.62
2015	—	1.97	1.97	6.17	18.78	14.20	11.76	19.83	5.14	R 22.44	R 18.69	0.85	3.29	R 9.85	2.33	28.08	R 16.15
2016	—	2.11	2.11	5.39	15.84	12.30	9.43	17.29	3.59	R 19.34	R 16.06	0.81	R 3.01	R 8.59	2.22	29.42	R 14.87
2017	—	2.19	2.19	R 5.95	R 18.37	16.24	11.84	19.76	9.88	24.25	18.60	0.79	R 2.92	9.75	2.24	30.28	16.26
2018	—	2.23	2.23	6.09	R 21.81	17.06	15.50	21.92	11.21	25.78	21.14	0.80	R 2.92	R 10.70	2.15	30.55	17.42
2019	—	2.07	2.07	R 5.49	R 20.91	14.66	14.49	20.73	11.42	R 25.71	19.96	0.81	R 3.63	R 10.37	2.26	30.43	16.61
2020	—	2.00	2.00	5.21	R 16.99	13.32	9.10	16.98	8.45	22.14	R 16.55	0.81	R 2.57	R 8.66	1.80	31.15	15.29
2021	—	2.19	2.19	R 6.58	R 22.17	20.57	14.48	23.77	12.64	R 27.27	R 22.59	0.77	R 3.06	11.61	2.47	32.65	R 18.75
2022	—	2.38	2.38	R 9.59	33.96	23.03	26.43	31.63	20.19	R 35.50	R 31.39	0.77	R 4.25	16.14	3.39	35.46	23.81
2023	—	2.46	2.46	8.04	29.16	19.18	21.03	28.58	18.13	32.22	27.57	0.77	4.10	14.71	3.53	35.99	22.18
	Expenditures in million dollars																
1970	8.6	68.2	76.9	220.6	140.5	60.7	14.7	688.9	14.9	67.2	986.8	—	3.8	1,288.9	-66.2	427.5	1,650.2
1975	45.4	113.9	159.3	381.4	355.7	129.1	66.5	1,172.9	38.4	137.2	1,899.9	25.5	5.7	2,474.3	-146.6	769.9	3,097.5
1980	—	269.7	269.7	785.0	837.2	167.4	188.3	2,319.4	56.3	209.9	3,778.4	48.6	14.3	4,920.0	-335.3	1,481.2	6,065.9
1985	—	340.9	340.9	1,283.0	876.8	164.4	261.4	2,314.7	15.8	309.2	3,942.3	61.4	18.8	5,754.6	-440.3	2,062.8	7,377.1
1990	—	427.9	427.9	1,066.5	905.7	199.1	164.0	2,399.4	11.9	301.2	3,981.4	61.2	33.3	5,639.1	-505.9	2,491.4	7,624.7
1995	—	407.8	407.8	1,241.4	937.6	284.7	226.1	2,679.9	5.8	320.5	4,454.6	66.2	47.3	6,399.2	-622.5	2,983.1	8,759.8
2000	—	434.1	434.1	1,996.7	1,442.8	408.4	492.2	3,909.6	16.7	423.8	6,693.4	61.2	52.9	9,726.0	-979.5	3,477.2	12,223.7
2005	—	446.4	446.4	3,417.4	2,536.2	685.3	934.5	5,910.0	67.6	486.4	10,620.0	62.2	104.6	15,222.7	-1,297.8	4,334.2	18,259.1
2006	—	476.3	476.3	3,263.3	2,862.3	706.7	981.5	6,759.9	41.8	681.7	12,034.0	63.4	102.4	16,602.1	-1,386.1	4,624.6	19,840.6
2007	—	568.0	568.0	3,424.0	3,293.1	786.3	1,033.3	7,491.6	66.7	759.0	13,430.0	69.7	114.4	18,237.8	-1,523.4	5,035.1	21,749.6
2008	—	622.7	622.7	4,057.1	4,092.7	876.2	1,323.1	8,207.4	133.1	719.3	15,351.9	64.8	136.7	20,780.6	-1,437.9	5,313.8	24,656.6
2009	—	567.1	567.1	2,788.5	R 2,309.1	755.0	662.3	5,975.0	31.9	754.8	R 10,488.0	92.1	117.8	R 14,395.9	-1,126.3	5,165.5	R 18,435.1
2010	—	573.0	573.0	2,797.8	R 3,070.4	631.6	777.8	7,172.8	31.1	R 813.7	R 12,497.4	118.1	170.8	R 16,510.4	-1,253.6	5,653.0	R 20,909.9
2011	—	635.5	635.5	2,791.7	R 4,171.7	687.7	1,048.8	8,720.0	44.5	R 867.1	R 15,539.8	112.4	180.2	R 19,572.5	-1,210.4	5,876.3	R 24,238.4
2012	—	538.1	538.1	2,252.3	R 4,304.2	510.8	1,043.9	9,044.0	10.1	R 912.7	R 15,825.7	114.2	172.0	R 19,128.7	-1,084.7	5,970.3	R 24,014.3
2013	—	566.5	566.5	R 2,838.3	R 4,382.2	688.3	1,158.8	8,855.2	6.0	R 909.2	R 15,999.8	108.5	176.1	R 20,009.7	-1,205.6	6,379.2	R 25,183.3
2014	—	642.6	642.6	R 3,645.9	R 4,327.6	1,000.5	991.9	8,357.0	4.3	R 914.8	R 15,596.1	119.4	R 210.1	R 20,540.6	-1,257.8	6,458.8	R 25,741.6
2015	—	535.3	535.3	R 2,619.3	R 2,767.2	483.8	594.5	6,252.2	2.9	R 843.1	R 10,943.6	106.4	R 177.6	R 14,671.4	-1,130.0	6,257.5	R 19,798.9
2016	—	551.5	551.5	R 2,376.0	R 2,526.6	424.2	492.0	5,593.1	2.7	R 719.6	R 9,758.2	117.0	R 164.4	R 13,220.9	-1,126.6	6,549.9	R 18,644.1
2017	—	565.3	565.3	R 2,605.8	R 2,939.9	657.0	637.6	6,339.8	1.1	549.2	R 11,124.7	114.4	R 157.0	R 14,794.8	-1,074.6	6,794.7	R 20,514.9
2018	—	582.3	582.3	R 2,950.3	R 3,745.2	774.1	R 809.5	6,876.2	0.8	673.9	R 12,879.7	121.9	R 151.0	R 16,839.1	-1,065.0	7,018.7	R 22,792.9
2019	—	425.2	425.2	R 2,847.3	R 3,709.6	747.9	R 789.2	6,467.4	3.0	R 715.1	R 12,432.3	119.0	R 159.0	R 16,233.5	-1,051.5	6,812.6	R 21,994.6
2020	—	325.5	325.5	R 2,432.4	R 2,560.5	622.8	R 238.9	4,598.2	1.0	R 658.2	R 8,679.6	123.5	R 99.7	R 11,743.7	-747.1	6,667.6	R 17,664.2
2021	—	392.2	392.2	R 3,224.8	R 3,552.2	909.4	R 530.6	6,824.4	1.9	R 681.9	R 12,500.4	114.1	R 121.5	R 16,477.1	-1,067.0	7,265.5	R 22,675.5
2022	—	438.8	438.8	R 4,771.4	R 5,500.7	1,054.1	R 1,098.9	9,087.6	2.9	R 919.1	R 17,663.4	118.2	R 171.4	R 23,518.2	-1,421.5	7,896.1	R 29,992.8
2023	—	367.2	367.2	4,048.5	4,629.0	784.6	1,004.9	8,270.2	2.1	779.6	15,470.5	96.4	150.3	20,555.4	-1,397.7	7,959.5	27,117.2

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[l] Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
[m] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.
Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET2. Total end-use energy price and expenditure estimates, selected years, 1970-2023, Minnesota

Year	Primary energy											Electricity [k]	Total energy [h,i,j]
			Petroleum							Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g,h]	Total [h,i,j]		
	Prices in dollars per million Btu												
1970	0.62	0.74	1.08	1.80	0.75	2.97	0.56	1.40	2.04	1.00	1.50	6.10	1.87
1975	1.35	1.21	2.51	3.74	2.09	4.63	1.75	2.99	3.62	1.32	2.63	8.64	3.18
1980	1.84	2.88	6.73	5.98	6.47	9.55	3.36	6.01	7.97	1.98	5.98	13.26	6.90
1985	2.14	5.14	7.58	8.51	5.93	9.73	4.05	7.13	8.49	2.17	7.10	15.81	8.39
1990	2.01	3.91	7.96	9.24	5.68	9.56	2.50	6.03	8.48	1.54	6.52	15.68	8.06
1995	1.84	3.78	7.02	8.05	4.00	9.48	2.41	6.09	7.91	1.43	6.09	16.40	7.75
2000	1.58	5.90	10.02	11.29	6.53	12.30	3.84	7.11	10.50	1.73	8.44	17.26	9.88
2005	2.09	9.99	16.54	16.91	13.02	17.59	6.46	8.43	15.87	3.27	13.38	19.43	14.45
2006	2.29	9.96	18.98	18.76	14.70	20.23	7.95	12.32	18.52	3.27	15.09	20.51	16.08
2007	2.19	9.53	20.91	20.88	16.16	22.54	8.15	13.91	20.54	3.33	16.07	21.85	17.12
2008	2.68	10.05	26.69	24.74	22.79	25.55	10.55	15.98	24.54	3.99	18.23	22.89	19.06
2009	2.84	7.35	17.31	19.95	12.70	19.17	7.54	19.82	18.16	3.72	13.50	23.91	R 15.37
2010	2.60	7.10	21.11	20.47	16.39	22.99	8.60	R 21.08	R 21.62	3.84	R 15.29	24.72	R 17.05
2011	2.96	7.10	27.40	22.63	22.76	29.32	13.74	R 24.18	R 27.49	4.29	R 18.54	25.43	R 19.85
2012	3.29	5.87	R 28.11	18.20	23.15	29.43	12.62	R 25.48	R 27.75	4.21	R 18.66	26.06	R 20.08
2013	3.24	6.47	28.01	18.55	22.48	28.89	10.29	R 24.57	R 27.16	4.52	R 18.00	27.69	R 19.75
2014	3.28	8.03	27.11	23.32	20.59	27.25	10.39	R 25.72	R 26.28	4.70	R 17.82	28.04	R 19.62
2015	3.02	6.56	18.79	14.20	11.76	19.83	5.14	R 22.44	R 18.70	R 4.17	R 13.50	28.08	R 16.15
2016	2.76	R 5.82	15.85	12.30	9.43	17.29	3.59	R 19.34	R 16.06	R 3.72	R 11.73	29.42	R 14.87
2017	3.31	6.23	R 18.38	16.24	11.84	19.76	9.88	24.25	18.61	R 3.78	13.23	30.28	16.26
2018	2.64	R 6.52	R 21.82	17.06	15.50	21.92	11.21	25.78	R 21.14	R 3.94	14.62	30.55	17.42
2019	2.65	R 6.05	R 20.93	14.66	14.49	20.73	11.42	R 25.71	R 19.96	R 3.97	13.80	30.43	16.61
2020	2.64	R 5.87	17.01	13.32	9.10	16.98	8.45	22.14	16.56	R 3.05	R 11.68	31.15	15.29
2021	2.66	R 7.13	22.23	20.57	14.48	23.77	12.64	R 27.27	R 22.61	R 3.78	R 15.62	32.65	R 18.75
2022	2.92	9.92	33.99	23.03	26.43	31.63	20.19	R 35.50	31.40	R 5.17	21.31	35.46	23.81
2023	2.99	8.88	29.21	19.18	21.03	28.58	18.13	32.22	27.58	4.95	19.13	35.99	22.18
	Expenditures in million dollars												
1970	33.8	205.3	137.8	60.7	14.7	688.9	11.0	66.9	979.9	3.7	1,222.7	427.5	1,650.2
1975	74.4	367.2	346.8	129.1	66.5	1,172.9	28.0	137.1	1,880.4	5.6	2,327.6	769.9	3,097.5
1980	38.7	769.1	831.5	167.4	188.3	2,319.4	46.1	209.9	3,762.7	14.2	4,584.7	1,481.2	6,065.9
1985	54.4	1,278.3	875.1	164.4	261.4	2,314.7	15.8	309.2	3,940.6	18.8	5,314.3	2,062.8	7,377.1
1990	54.2	1,056.1	902.9	199.1	164.0	2,399.4	11.9	297.8	3,975.2	28.5	5,133.2	2,491.4	7,624.7
1995	59.1	1,226.6	934.4	284.7	226.1	2,679.9	5.8	317.4	4,448.2	42.9	5,776.7	2,983.1	8,759.8
2000	63.9	1,951.5	1,433.4	408.4	492.2	3,909.6	16.7	421.6	6,681.8	49.3	8,746.5	3,477.2	12,223.7
2005	54.5	3,175.9	2,521.8	685.3	934.5	5,910.0	65.1	483.7	10,600.5	94.0	13,924.9	4,334.2	18,259.1
2006	58.9	3,046.4	2,850.6	706.7	981.5	6,759.9	40.7	679.6	12,019.1	91.7	15,216.0	4,624.6	19,840.6
2007	59.2	3,172.3	3,256.6	786.3	1,033.3	7,491.6	63.9	757.0	13,388.6	94.3	16,714.5	5,035.1	21,749.6
2008	72.8	3,827.2	4,073.2	876.2	1,323.1	8,207.4	132.0	717.5	15,329.5	113.2	19,342.8	5,313.8	24,656.6
2009	66.4	2,633.2	R 2,299.5	755.0	662.3	5,975.0	31.7	754.8	R 10,478.3	91.7	R 13,269.6	5,165.5	R 18,435.1
2010	66.9	2,580.7	R 3,064.2	631.6	777.8	7,172.8	31.1	R 813.7	R 12,491.2	118.1	R 15,256.9	5,653.0	R 20,909.9
2011	75.2	2,624.1	R 4,164.7	687.7	1,048.8	8,720.0	44.5	R 867.1	R 15,532.8	129.9	R 18,362.0	5,876.3	R 24,238.4
2012	70.6	2,035.8	R 4,296.1	510.8	1,043.9	9,044.0	10.1	R 912.7	R 15,817.6	120.1	R 18,044.0	5,970.3	R 24,014.3
2013	78.3	R 2,601.1	R 4,373.1	688.3	1,158.8	8,855.2	6.0	R 909.2	R 15,990.8	133.9	R 18,804.1	6,379.2	R 25,183.3
2014	76.8	R 3,461.3	R 4,312.7	1,000.5	991.9	8,357.0	4.3	R 914.8	R 15,581.2	R 163.4	R 19,282.8	6,458.8	R 25,741.6
2015	53.2	R 2,417.4	R 2,762.8	483.8	594.5	6,252.2	2.9	R 843.1	R 10,939.2	R 131.6	R 13,541.4	6,257.5	R 19,798.9
2016	54.6	R 2,167.1	R 2,522.7	424.2	492.0	5,593.1	2.7	R 719.6	R 9,754.3	R 118.2	R 12,094.3	6,549.9	R 18,644.1
2017	73.1	R 2,409.4	R 2,935.6	657.0	637.6	6,339.8	1.1	549.2	R 11,120.5	R 117.2	R 13,720.1	6,794.7	R 20,514.9
2018	52.1	R 2,716.1	R 3,738.0	774.1	R 809.5	6,876.2	0.8	673.9	R 12,872.5	R 133.4	R 15,774.2	7,018.7	R 22,792.9
2019	49.0	R 2,572.1	R 3,701.2	747.9	R 789.2	6,467.4	3.0	R 715.1	R 12,423.8	R 137.0	R 15,182.0	6,812.6	R 21,994.6
2020	36.3	R 2,192.1	R 2,557.6	622.8	R 238.9	4,598.2	1.0	R 658.2	R 8,676.6	R 91.5	R 10,996.6	6,667.6	R 17,664.2
2021	39.2	R 2,771.3	R 3,533.5	909.4	R 530.6	6,824.4	1.9	R 681.9	R 12,481.7	R 117.8	R 15,410.0	7,265.5	R 22,675.5
2022	47.9	R 4,237.6	R 5,486.2	1,054.1	R 1,098.9	9,087.6	2.9	R 919.1	R 17,648.9	R 162.2	R 22,096.7	7,896.1	R 29,992.8
2023	50.8	3,512.6	4,610.9	784.6	1,004.9	8,270.2	2.1	779.6	15,452.4	141.9	19,157.7	7,959.5	27,117.2

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. · Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2023, Minnesota

Year	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
	Prices in dollars per million Btu									
1970	1.55	1.09	1.26	1.99	1.52	1.54	0.61	1.28	7.30	2.14
1975	3.04	1.57	2.55	4.22	2.91	3.14	1.20	2.16	9.90	3.37
1980	4.32	3.24	7.20	7.34	8.02	7.25	3.06	4.47	16.06	6.87
1985	4.10	5.78	7.79	7.79	8.00	7.79	3.46	6.18	19.01	9.24
1990	3.46	4.61	7.75	8.35	8.35	7.96	3.56	5.36	19.94	9.13
1995	3.48	4.74	6.16	8.07	5.04	7.09	2.90	5.19	21.01	9.21
2000	3.53	7.03	8.89	11.03	9.31	10.20	4.41	7.64	22.03	11.57
2005	4.31	11.07	15.28	16.16	15.56	15.84	6.91	11.89	24.26	15.72
2006	5.15	11.48	17.48	17.99	19.78	17.83	7.96	12.58	25.48	16.87
2007	4.62	10.92	20.01	19.96	22.43	19.98	8.79	12.46	26.90	17.09
2008	—	11.03	23.72	23.93	23.58	23.86	10.83	13.23	28.53	17.84
2009	—	8.73	16.47	19.63	23.85	18.95	8.13	10.33	29.43	16.22
2010	—	8.67	19.20	20.66	25.38	20.31	9.60	10.67	31.04	17.40
2011	—	8.76	27.59	22.25	28.72	23.47	11.54	11.22	32.13	18.11
2012	—	7.84	27.50	19.11	30.13	20.95	12.85	10.06	33.27	18.30
2013	—	8.01	28.52	19.04	30.79	21.15	12.58	10.06	34.61	17.67
2014	—	9.58	27.57	25.76	33.14	26.10	12.27	12.22	35.21	19.01
2015	—	8.47	18.05	16.40	17.11	16.70	8.45	9.81	35.51	18.21
2016	—	7.74	15.62	13.85	13.64	14.17	7.22	8.78	37.14	18.13
2017	—	8.22	17.79	17.59	17.06	17.62	8.08	9.89	38.23	18.79
2018	—	8.31	19.40	18.04	27.90	18.22	8.94	10.04	38.52	18.45
2019	—	7.67	19.79	16.61	23.01	16.93	8.60	9.35	38.22	17.52
2020	—	7.65	19.03	14.99	14.95	15.37	7.11	9.03	38.59	R 18.26
2021	—	8.92	23.31	22.25	23.61	22.40	R 8.53	R 11.34	39.57	R 20.21
2022	—	11.53	31.61	25.07	40.88	26.02	R 13.20	R 14.10	41.76	R 22.03
2023	—	11.30	29.66	21.51	36.46	22.74	12.07	13.38	43.18	22.65
	Expenditures in million dollars									
1970	10.5	111.5	52.9	50.3	10.3	113.5	1.1	236.6	225.0	461.6
1975	4.1	179.5	107.6	100.6	9.2	217.4	2.2	403.3	344.1	747.4
1980	2.7	333.8	249.5	84.8	5.2	339.5	7.6	683.5	643.8	1,327.4
1985	3.8	618.7	180.2	73.8	6.2	260.2	11.0	893.7	860.3	1,754.0
1990	2.2	495.3	169.0	96.6	1.4	267.0	12.7	777.1	1,010.6	1,787.7
1995	2.4	618.1	110.5	141.6	1.4	253.5	9.1	883.1	1,216.6	2,099.8
2000	(s)	925.5	118.6	236.5	1.7	356.9	11.1	1,293.5	1,400.1	2,693.5
2005	0.5	1,441.9	173.9	322.7	2.4	499.0	23.3	1,964.6	1,799.4	3,764.0
2006	0.7	1,367.2	156.4	338.2	2.0	496.6	23.8	1,888.3	1,905.1	3,793.4
2007	0.6	1,435.3	178.7	391.8	1.4	571.9	29.0	2,036.8	2,078.5	4,115.3
2008	—	1,574.8	234.5	487.8	1.1	723.4	40.0	2,338.3	2,176.5	4,514.8
2009	—	1,198.5	96.9	405.5	2.4	504.8	36.0	1,739.3	2,212.3	3,951.7
2010	—	1,077.4	129.6	401.4	2.9	533.9	45.6	1,656.9	2,379.1	4,036.0
2011	—	1,107.7	157.2	433.7	2.1	593.0	53.1	1,753.8	2,469.5	4,223.3
2012	—	871.7	130.1	323.6	0.9	454.6	49.5	1,375.8	2,504.5	3,880.3
2013	—	1,145.8	R 159.1	375.6	1.6	R 536.3	63.2	R 1,745.3	2,698.1	R 4,443.4
2014	—	1,450.3	R 142.7	604.8	2.3	R 749.8	62.4	R 2,262.5	2,737.9	R 5,000.4
2015	—	1,033.6	R 80.2	335.0	0.8	R 416.0	47.0	R 1,496.6	2,630.7	R 4,127.4
2016	—	942.0	R 71.4	280.9	1.0	R 353.2	33.6	R 1,328.8	2,762.8	R 4,091.6
2017	—	1,049.4	R 64.4	439.1	0.9	R 504.4	35.6	R 1,589.4	2,814.0	R 4,403.4
2018	—	1,228.8	R 77.2	506.7	1.5	R 585.4	R 53.4	R 1,867.6	3,001.4	R 4,868.9
2019	—	1,165.3	R 63.9	513.7	1.9	R 579.5	R 57.3	R 1,802.1	2,906.6	R 4,708.7
2020	—	1,046.2	R 54.9	421.8	1.2	R 477.9	R 30.9	R 1,555.0	3,020.2	R 4,575.2
2021	—	1,227.5	R 102.6	596.2	1.3	R 700.1	R 37.4	R 1,964.9	3,138.3	R 5,103.2
2022	—	R 1,827.2	R 155.1	745.8	2.2	R 903.1	R 74.8	R 2,805.1	3,336.4	R 6,141.5
2023	—	1,559.4	135.6	575.0	3.4	714.0	57.6	2,331.0	3,391.9	5,722.9

[a] Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2023, Minnesota

Year	Primary energy										Electricity [j]	Total energy [g,h,i]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f,g]	Total [g,h,i]		
	Prices in dollars per million Btu											
1970	0.47	0.69	1.05	1.18	0.89	2.97	0.58	1.13	0.61	0.76	7.72	1.44
1975	0.87	1.16	2.34	2.52	2.54	4.63	1.97	2.59	1.20	1.38	10.38	2.55
1980	1.77	2.89	6.60	4.66	—	9.55	4.48	6.73	3.06	3.45	12.95	5.35
1985	2.07	5.18	6.27	8.28	8.00	9.73	4.10	6.56	3.46	5.36	17.53	7.80
1990	1.97	3.96	5.57	9.37	8.35	9.56	2.50	7.49	2.90	4.54	17.70	7.60
1995	1.81	3.93	4.40	7.81	5.04	9.48	2.41	5.41	2.22	3.94	18.35	7.56
2000	1.58	6.01	7.26	11.11	9.31	12.30	3.97	8.40	3.00	6.20	18.84	9.76
2005	2.08	10.04	14.28	16.40	15.56	17.59	6.69	13.56	5.25	10.25	19.30	13.92
2006	2.28	10.14	16.71	18.20	19.78	20.23	7.83	17.78	4.98	11.08	20.57	15.03
2007	2.18	9.94	18.91	19.66	22.43	22.54	8.63	20.07	5.77	10.95	21.92	15.53
2008	3.82	10.28	24.60	23.41	23.58	25.55	12.46	23.62	6.84	11.84	23.09	16.27
2009	4.44	7.73	14.57	18.76	23.85	19.17	8.03	16.06	5.29	8.66	23.20	14.46
2010	3.73	7.52	18.39	19.77	25.38	22.99	10.04	19.25	5.88	8.81	24.56	15.48
2011	4.08	7.39	24.92	23.12	28.72	29.32	15.76	25.01	7.06	9.45	25.28	15.93
2012	4.25	6.24	25.36	17.02	30.13	29.43	17.05	24.64	6.63	8.46	25.91	16.13
2013	4.11	6.71	24.74	18.13	30.79	28.89	16.82	23.93	6.78	R 8.64	27.61	16.02
2014	4.31	8.39	22.82	20.37	33.14	27.25	16.09	23.08	R 4.41	9.88	28.87	16.89
2015	4.01	7.04	13.54	11.40	17.11	19.83	10.36	15.83	R 3.87	8.25	27.66	R 16.08
2016	3.83	6.22	11.28	10.60	13.64	17.29	7.38	13.78	R 3.33	7.26	28.89	16.00
2017	4.78	6.60	14.02	14.53	17.06	19.76	9.88	R 15.93	R 3.35	7.71	30.71	R 16.70
2018	3.69	6.77	17.40	15.97	27.90	21.92	11.21	18.27	R 3.39	8.03	30.43	16.30
2019	3.78	6.31	16.01	12.18	23.01	20.73	11.42	16.22	R 3.61	7.31	30.32	15.59
2020	4.01	6.08	10.82	11.35	14.95	16.98	—	13.23	R 3.29	6.84	30.56	15.64
2021	3.75	7.39	17.44	18.56	23.61	23.77	12.64	19.86	R 4.01	8.91	32.88	17.82
2022	3.93	10.07	28.85	19.69	40.88	31.63	20.19	27.21	R 5.15	12.36	36.05	20.37
2023	3.35	9.77	21.96	15.29	36.46	28.58	18.13	22.05	5.62	11.16	36.30	20.43
	Expenditures in million dollars											
1970	2.5	53.2	10.7	4.3	1.3	3.7	1.4	21.5	(s)	77.3	83.7	161.0
1975	2.7	104.2	24.1	8.7	1.7	8.6	2.8	46.0	(s)	152.9	171.6	324.6
1980	4.2	183.6	55.5	7.8	—	17.1	0.9	81.3	0.2	269.2	252.8	522.1
1985	6.8	400.2	104.0	11.4	1.1	17.1	5.8	139.3	0.3	546.8	446.9	993.6
1990	5.0	310.2	35.4	15.8	0.2	78.8	4.1	134.3	1.5	451.7	532.2	983.9
1995	8.4	360.7	22.0	19.9	0.7	2.5	1.7	46.8	1.5	417.4	651.7	1,069.1
2000	0.1	581.7	37.5	34.7	2.8	3.2	3.4	81.7	2.1	665.6	791.5	1,457.0
2005	2.7	974.5	83.2	44.6	1.3	4.8	12.8	146.8	4.4	1,128.4	1,447.9	2,576.3
2006	3.4	898.7	64.5	47.5	1.3	144.6	11.6	269.6	4.7	1,176.4	1,556.4	2,732.8
2007	2.4	925.5	79.5	43.8	1.3	109.1	4.8	238.6	5.6	1,172.1	1,684.2	2,856.3
2008	4.1	1,047.0	132.6	86.2	0.9	112.4	14.6	346.6	7.1	1,404.9	1,780.9	3,185.8
2009	4.3	765.9	88.0	56.9	0.4	63.6	9.6	218.5	5.7	994.4	1,766.0	2,760.4
2010	2.8	683.7	85.8	50.9	0.9	79.9	11.5	229.0	6.8	922.3	1,887.1	2,809.4
2011	2.6	703.9	150.6	69.0	0.5	93.6	13.1	326.9	7.7	1,041.1	1,929.9	2,971.0
2012	0.3	529.0	141.5	44.3	0.1	101.6	1.6	289.2	7.6	826.0	1,988.7	2,814.7
2013	0.5	726.7	R 174.0	65.9	0.4	90.3	0.5	R 331.0	8.4	R 1,066.7	2,170.8	R 3,237.5
2014	0.8	960.3	R 163.5	84.1	0.3	87.5	0.8	R 336.2	R 16.7	1,314.0	2,249.0	3,563.0
2015	0.6	679.9	R 82.4	43.2	0.1	152.8	(s)	R 278.5	R 14.4	R 973.4	2,207.0	R 3,180.5
2016	0.7	596.3	R 63.2	46.0	0.3	137.2	0.2	R 246.8	R 14.2	R 858.0	2,316.3	R 3,174.3
2017	0.7	678.3	R 87.4	74.0	0.1	99.7	0.3	R 261.5	R 15.0	R 955.6	2,438.8	R 3,394.4
2018	0.4	779.0	R 85.5	99.5	0.2	112.4	0.3	R 298.0	R 16.1	R 1,093.5	2,429.2	R 3,522.7
2019	0.3	752.0	R 71.6	67.4	0.2	107.2	0.1	R 246.5	R 16.3	R 1,015.1	2,369.1	R 3,384.2
2020	0.3	648.7	R 38.5	66.2	0.1	88.3	—	R 193.2	R 10.5	R 852.6	2,244.7	3,097.3
2021	0.4	796.1	R 93.6	106.1	0.2	124.8	0.3	R 325.0	R 12.7	R 1,134.2	2,478.4	R 3,612.6
2022	0.3	R 1,266.1	R 170.4	127.0	0.4	278.5	0.5	R 576.7	R 18.9	R 1,861.9	2,773.2	R 4,635.1
2023	0.1	1,108.6	120.7	77.4	0.6	151.4	0.4	350.4	15.1	1,474.2	2,800.8	4,275.1

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[g] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[j] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: Expenditure totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2023, Minnesota

	Primary energy													
	Coal				Petroleum						Biomass			
Year	Coking coal	Steam coal	Total	Natural gas [a]	Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e,f]	Total [f,g,h]	Electricity [i]	Total energy [f,g,h]
	Prices in dollars per million Btu													
1970	0.53	0.47	0.49	0.42	0.83	1.24	2.97	0.55	0.96	1.18	1.43	0.79	4.17	1.12
1975	1.80	0.87	1.33	0.83	2.39	2.74	4.63	1.74	2.43	2.68	1.43	1.73	6.73	2.34
1980	—	1.77	1.77	2.51	5.66	5.08	9.55	2.97	4.45	5.27	1.39	3.59	11.22	5.09
1985	—	2.07	2.07	4.04	6.37	9.29	9.73	4.10	5.75	6.69	1.39	5.00	12.65	6.94
1990	—	1.97	1.97	2.96	6.51	10.43	9.56	2.50	4.27	5.86	0.99	3.96	12.14	6.14
1995	—	1.81	1.81	2.42	5.21	7.94	9.48	2.41	4.47	5.48	1.23	3.46	12.61	5.79
2000	—	1.58	1.58	4.36	7.94	11.81	12.30	3.97	5.51	7.24	1.43	4.74	13.40	7.03
2005	—	2.08	2.08	8.39	14.87	17.76	17.59	6.69	6.12	11.06	2.70	8.45	14.71	9.85
2006	—	2.28	2.28	7.96	17.37	19.69	20.23	7.83	9.62	13.98	2.62	9.43	15.50	10.82
2007	—	2.18	2.18	7.50	19.42	22.15	22.54	8.63	10.94	15.63	2.48	9.81	16.67	11.34
2008	—	2.63	2.63	8.84	26.47	26.48	25.55	12.46	12.01	19.40	2.80	11.41	17.22	12.67
2009	—	2.77	2.77	5.49	15.93	20.55	19.17	8.03	15.95	16.68	2.61	8.88	18.34	10.83
2010	—	2.57	2.57	5.52	19.73	20.20	22.99	10.04	R 18.22	R 19.30	2.64	R 9.35	18.43	R 11.22
2011	—	2.93	2.93	5.49	25.76	23.31	29.32	15.76	R 20.58	R 23.70	2.81	R 10.66	18.96	R 12.44
2012	—	3.29	3.29	4.20	26.50	16.72	29.43	17.05	R 21.97	R 24.05	2.68	R 10.14	19.16	R 12.06
2013	—	3.23	3.23	4.83	26.13	17.92	28.89	16.82	R 21.21	R 23.42	2.67	R 10.59	20.46	R 12.57
2014	—	3.28	3.28	6.36	24.93	20.33	27.25	16.09	R 22.21	R 23.42	3.26	R 11.13	19.71	R 12.80
2015	—	3.01	3.01	4.69	17.50	10.65	19.83	10.36	R 18.84	R 17.42	3.15	R 8.41	20.58	R 10.85
2016	—	2.75	2.75	4.05	13.54	9.79	17.29	7.38	R 15.51	R 14.19	3.08	R 6.92	21.61	R 9.77
2017	—	3.30	3.30	4.35	16.32	13.74	19.76	9.88	18.68	16.91	3.01	7.48	21.61	10.42
2018	—	2.64	2.64	4.59	18.68	15.16	21.92	11.21	20.80	19.08	2.76	8.51	22.05	11.31
2019	—	2.64	2.64	4.23	18.49	11.35	20.73	11.42	20.97	18.18	2.72	8.32	22.06	11.03
2020	—	2.64	2.64	3.80	14.77	10.51	16.98	8.45	18.32	15.43	2.23	7.58	22.49	10.53
2021	—	2.65	2.65	5.19	17.89	17.66	23.77	12.64	R 22.38	R 19.64	2.87	R 9.17	24.30	R 12.31
2022	—	2.91	2.91	R 8.00	28.05	18.73	31.63	20.19	R 29.78	R 27.76	R 3.11	R 13.14	27.12	R 15.99
2023	—	2.99	2.99	5.84	26.24	14.30	28.58	18.13	27.00	25.24	3.27	11.03	26.98	14.29
	Expenditures in million dollars													
1970	8.6	12.2	20.8	40.6	37.5	5.6	56.3	9.4	32.9	141.9	2.5	205.7	118.8	324.5
1975	45.4	22.2	67.6	83.5	111.0	18.8	76.1	19.0	88.2	313.2	3.4	467.7	254.2	721.9
1980	—	31.9	31.9	251.7	188.2	73.5	67.1	22.0	126.6	477.3	6.5	767.4	584.6	1,351.9
1985	—	43.8	43.8	259.4	184.4	74.4	87.8	6.2	214.3	567.1	7.6	878.8	755.7	1,634.4
1990	—	47.0	47.0	250.7	207.8	84.3	56.1	7.9	184.2	540.3	14.3	852.8	948.6	1,801.4
1995	—	48.3	48.3	247.8	182.4	117.3	58.8	4.1	207.2	569.9	32.2	898.2	1,114.8	2,013.0
2000	—	63.8	63.8	444.0	224.2	136.8	63.7	8.3	292.7	725.7	36.2	1,269.7	1,285.6	2,555.3
2005	—	51.3	51.3	759.4	496.2	310.1	118.7	44.8	320.8	1,290.5	66.4	2,167.6	1,085.4	3,253.0
2006	—	54.8	54.8	780.3	533.5	313.5	128.8	18.7	484.9	1,479.5	63.1	2,377.8	1,161.3	3,539.1
2007	—	56.3	56.3	811.3	578.0	341.9	171.1	41.1	542.3	1,674.4	59.6	2,601.6	1,270.7	3,872.3
2008	—	68.7	68.7	1,205.1	919.7	283.4	120.5	91.5	486.0	1,901.1	66.1	3,241.0	1,354.7	4,595.6
2009	—	62.1	62.1	668.5	498.1	282.2	96.3	16.1	537.4	1,430.1	50.0	2,210.7	1,185.4	3,396.1
2010	—	64.0	64.0	819.3	765.5	177.3	151.7	11.9	R 645.2	R 1,751.6	65.7	R 2,700.7	1,385.1	R 4,085.8
2011	—	72.6	72.6	812.4	1,007.1	182.6	196.1	24.4	R 674.5	R 2,084.7	69.1	R 3,038.8	1,475.3	R 4,514.1
2012	—	70.3	70.3	635.0	1,039.8	141.4	198.5	4.4	R 723.3	R 2,107.4	63.0	R 2,875.7	1,475.6	R 4,351.3
2013	—	77.8	77.8	728.2	1,065.1	244.5	211.1	1.4	R 722.2	R 2,244.3	62.3	R 3,112.6	1,508.5	R 4,621.1
2014	—	76.0	76.0	1,050.0	1,036.2	309.0	167.3	0.9	R 723.5	R 2,236.9	84.3	R 3,447.2	1,469.6	R 4,916.8
2015	—	52.6	52.6	703.1	618.6	103.6	119.8	0.5	R 647.2	R 1,489.7	70.2	R 2,315.6	1,417.5	R 3,733.0
2016	—	53.9	53.9	627.2	465.0	95.2	114.1	0.2	R 526.3	R 1,200.8	70.3	R 1,952.3	1,468.4	R 3,420.7
2017	—	72.4	72.4	676.5	577.4	140.2	131.3	0.8	367.0	1,216.7	66.6	2,032.2	1,539.7	3,571.9
2018	—	51.7	51.7	702.9	735.3	166.5	147.4	0.5	482.9	1,532.5	63.9	2,351.1	1,585.6	3,936.7
2019	—	48.7	48.7	648.9	771.5	161.5	134.2	2.9	R 523.1	R 1,593.2	63.5	R 2,354.2	1,534.5	R 3,888.7
2020	—	36.1	36.1	492.1	588.3	133.2	111.1	1.0	500.2	1,333.8	50.1	R 1,912.1	1,400.8	3,312.8
2021	—	38.8	38.8	741.2	660.3	205.3	152.2	1.6	R 503.7	R 1,523.0	67.8	R 2,370.7	1,646.5	R 4,017.2
2022	—	47.7	47.7	R 1,137.1	1,046.0	171.6	212.2	2.4	R 692.8	R 2,125.0	R 68.6	R 3,378.3	1,784.1	R 5,162.4
2023	—	50.6	50.6	837.8	955.3	124.1	176.9	1.7	597.2	1,855.3	69.2	2,813.0	1,764.5	4,577.5

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[i] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET6. Transportation sector energy price and expenditure estimates, selected years, 1970-2023, Minnesota

Year	Primary energy											Electricity [g]	Total energy [f]
			Petroleum										
	Coal	Natural gas[a]	Aviation gasoline	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Lubricants	Motor gasoline [e]	Residual fuel oil	Total	Total [f]		
	Prices in dollars per million Btu												
1970	0.47	—	2.17	1.24	1.18	0.75	5.08	2.97	0.57	2.64	2.64	—	2.64
1975	0.87	—	3.45	2.67	2.52	2.09	7.48	4.63	1.70	4.13	4.13	—	4.13
1980	—	—	9.02	7.16	4.66	6.47	14.36	9.55	3.81	8.88	8.88	—	8.88
1985	—	—	9.99	8.68	10.10	5.93	18.18	9.73	3.91	9.16	9.17	—	9.17
1990	—	—	9.32	9.19	11.55	5.68	20.61	9.56	—	9.33	9.33	—	9.33
1995	—	1.79	8.36	8.23	11.32	4.00	21.75	9.48	—	8.65	8.65	—	8.65
2000	—	4.56	10.87	10.93	15.36	6.53	23.20	12.30	3.56	11.23	11.23	—	11.23
2005	—	5.69	18.56	17.36	20.79	13.02	35.22	17.59	5.11	17.02	17.02	18.19	17.02
2006	—	11.43	22.31	19.65	22.43	14.70	43.88	20.23	8.34	19.54	19.54	23.30	19.54
2007	—	12.53	23.70	21.44	24.62	16.16	47.16	22.54	7.14	21.62	21.62	24.23	21.62
2008	—	19.06	27.23	27.17	28.77	22.79	55.12	25.55	6.48	25.66	25.66	23.57	25.65
2009	—	18.17	20.32	18.03	23.92	12.70	56.07	19.17	5.97	18.46	18.46	22.65	18.46
2010	—	16.33	25.19	21.95	26.32	16.39	58.80	22.99	5.99	22.23	22.23	22.77	22.23
2011	—	10.44	31.64	28.17	29.59	22.76	69.54	29.32	8.18	28.56	28.56	24.11	28.56
2012	—	10.36	33.04	28.90	22.46	23.15	72.11	29.43	9.11	28.89	28.89	25.40	28.89
2013	—	R 10.18	32.71	28.95	23.78	22.48	69.42	28.89	8.75	28.38	28.38	28.69	28.38
2014	—	R 11.35	33.16	28.23	26.41	20.59	69.44	27.25	8.45	27.00	R 26.99	28.69	R 26.99
2015	—	R 11.42	24.86	19.59	15.87	11.76	67.28	19.83	4.55	19.15	19.15	27.84	19.15
2016	—	R 11.15	21.62	16.78	14.93	9.43	65.78	17.29	3.30	16.58	16.57	29.49	16.58
2017	—	R 11.08	24.13	19.28	19.19	11.84	67.25	19.76	—	19.01	19.00	28.02	19.00
2018	—	R 11.33	27.04	23.09	19.81	15.50	72.37	21.92	—	R 21.78	21.77	28.08	21.77
2019	—	R 11.36	25.57	21.94	16.28	14.49	74.92	20.73	—	R 20.61	20.60	27.82	20.60
2020	—	R 11.36	22.34	18.02	15.23	9.10	75.34	16.98	—	R 17.02	R 17.02	27.56	17.02
2021	—	R 11.36	28.86	23.84	24.12	14.48	81.25	23.77	—	23.27	R 23.26	30.43	R 23.26
2022	—	R 12.27	36.02	36.32	24.01	26.43	97.37	31.63	—	32.69	R 32.66	36.01	R 32.66
2023	—	13.47	32.62	30.52	19.17	21.03	105.48	28.58	—	28.52	28.50	36.20	28.50
	Expenditures in million dollars												
1970	(s)	—	3.0	36.6	0.4	14.7	19.3	628.9	0.1	703.1	703.1	—	703.1
1975	(s)	—	3.7	104.1	0.9	66.5	34.1	1,088.1	6.2	1,303.7	1,303.8	—	1,303.8
1980	—	—	8.8	338.4	1.2	188.3	69.3	2,235.3	23.2	2,864.5	2,864.5	—	2,864.5
1985	—	—	7.8	406.5	4.8	261.4	79.9	2,209.8	3.8	2,973.9	2,995.1	—	2,995.1
1990	—	—	10.0	490.6	2.5	164.0	101.9	2,264.5	—	3,033.6	3,051.6	—	3,051.6
1995	—	(s)	5.4	619.4	5.8	226.1	102.6	2,618.6	—	3,577.9	3,578.0	—	3,578.0
2000	—	0.3	7.4	1,053.0	0.4	492.2	116.9	3,842.7	5.0	5,517.5	5,517.8	—	5,517.8
2005	—	0.1	9.6	1,768.5	7.9	934.5	149.7	5,786.5	7.5	8,664.2	8,664.3	1.5	8,665.8
2006	—	0.2	9.7	2,096.2	7.5	981.5	181.7	6,486.5	10.4	9,773.4	9,773.5	1.7	9,775.2
2007	—	0.2	10.4	2,420.4	8.7	1,033.3	201.6	7,211.3	18.0	10,903.8	10,904.0	1.7	10,905.7
2008	—	0.3	10.7	2,786.3	18.9	1,323.1	218.8	7,974.5	25.9	12,358.3	12,358.6	1.8	12,360.4
2009	—	0.2	14.4	R 1,616.6	10.5	662.3	200.1	5,815.0	6.0	R 8,325.0	R 8,325.2	1.7	R 8,326.9
2010	—	0.2	11.0	R 2,083.3	2.0	777.8	153.8	6,941.2	7.7	R 9,976.8	R 9,977.0	1.7	R 9,978.7
2011	—	0.1	15.1	R 2,849.8	2.4	1,048.8	174.9	8,430.3	7.0	R 12,528.3	R 12,528.3	1.6	R 12,529.9
2012	—	0.1	15.7	R 2,984.6	1.5	1,043.9	172.6	8,744.0	4.1	R 12,966.4	R 12,966.5	1.5	R 12,968.0
2013	—	R 0.4	14.0	R 2,975.0	2.2	1,158.8	171.0	8,553.8	4.2	R 12,879.1	R 12,879.5	1.9	R 12,881.4
2014	—	R 0.7	12.4	R 2,970.3	2.6	991.9	176.3	8,102.3	2.6	R 12,258.4	R 12,259.1	2.3	R 12,261.4
2015	—	R 0.8	10.5	R 1,981.6	1.9	594.5	184.5	5,979.7	2.3	R 8,755.0	R 8,755.8	2.3	R 8,758.1
2016	—	R 1.6	8.3	R 1,923.1	2.1	492.0	183.7	5,341.8	2.3	R 7,953.5	R 7,955.1	2.4	R 7,957.5
2017	—	R 5.1	9.5	R 2,206.4	3.7	637.6	171.8	6,108.9	—	R 9,137.8	R 9,142.9	2.3	R 9,145.2
2018	—	R 5.4	10.6	R 2,840.0	1.4	R 809.5	178.7	6,616.5	—	R 10,456.6	R 10,462.1	2.5	R 10,464.5
2019	—	R 6.0	9.9	R 2,794.2	5.3	R 789.2	R 180.1	6,226.0	—	R 10,004.6	R 10,010.6	2.4	R 10,013.0
2020	—	R 5.1	8.4	R 1,875.8	1.6	R 238.9	R 148.3	4,398.8	—	R 6,671.8	R 6,676.9	1.9	R 6,678.8
2021	—	R 6.6	11.7	R 2,677.1	1.8	R 530.6	R 165.0	6,547.4	—	R 9,933.6	R 9,940.2	2.4	R 9,942.5
2022	—	R 7.2	15.1	R 4,114.8	9.7	R 1,098.9	R 208.6	8,596.9	—	R 14,044.1	R 14,051.3	2.5	R 14,053.8
2023	—	6.8	13.0	3,399.3	8.2	1,004.9	165.4	7,941.9	—	12,532.7	12,539.5	2.2	12,541.7

[a] Transportation use of natural gas as vehicle fuel only.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET7. Electric power sector price and expenditure estimates, selected years, 1970-2023, Minnesota

Year	Coal	Natural gas [a]	Petroleum: Distillate fuel oil	Petroleum: Petroleum coke	Petroleum: Residual fuel oil	Petroleum: Total	Nuclear fuel	Biomass: Wood and waste [b]	Electricity imports [c]	Total energy [d]
	Prices in dollars per million Btu									
1970	0.34	0.26	0.85	0.28	0.74	0.73	—	0.65	1.92	0.34
1975	0.62	0.64	2.26	0.54	1.95	2.03	0.24	0.92	3.89	0.53
1980	1.04	1.99	5.80	—	4.46	4.86	0.44	1.74	6.94	0.97
1985	1.43	3.69	5.97	—	3.99	5.96	0.50	—	9.34	1.32
1990	1.25	1.92	5.33	0.76	1.86	1.25	0.48	0.62	8.37	1.12
1995	1.14	1.76	4.07	0.69	—	1.17	0.48	0.51	6.21	1.25
2000	1.11	4.49	6.60	0.33	3.56	1.47	0.45	0.40	16.78	1.87
2005	1.11	9.20	10.62	0.43	5.07	2.39	0.46	1.14	16.53	2.30
2006	1.21	8.65	13.53	0.49	8.11	2.80	0.46	1.21	17.32	2.47
2007	1.50	7.18	15.87	1.04	6.55	8.87	0.51	1.17	18.25	2.68
2008	1.66	9.11	21.55	1.14	6.53	8.46	0.48	1.32	18.28	2.65
2009	1.64	6.49	13.54	—	5.90	13.19	0.71	1.25	12.10	2.21
2010	1.75	5.96	16.91	—	—	16.91	0.84	2.17	13.31	2.42
2011	1.93	5.88	23.48	—	—	23.48	0.90	2.34	11.53	2.46
2012	1.98	3.71	23.76	—	—	23.76	0.91	2.14	9.51	2.32
2013	2.00	4.66	23.13	—	—	23.13	0.97	2.11	11.49	2.65
2014	1.95	5.82	22.14	—	—	22.14	0.90	2.11	13.31	2.51
2015	1.90	3.62	13.13	—	—	13.13	0.85	2.05	10.54	2.33
2016	2.06	3.05	11.34	—	—	11.34	0.81	2.03	8.74	2.22
2017	2.09	3.81	13.18	—	—	13.18	0.79	1.76	9.18	2.24
2018	2.19	3.47	16.47	—	—	16.47	0.80	0.99	10.74	2.15
2019	2.02	2.92	14.83	—	—	14.83	0.81	2.35	9.20	2.26
2020	1.94	2.58	9.76	—	—	9.76	0.81	0.93	8.38	1.80
2021	2.15	4.46	15.15	—	—	15.15	0.77	0.43	12.82	2.47
2022	2.33	7.54	25.28	—	—	25.28	0.77	1.02	19.84	3.39
2023	2.40	4.94	20.07	—	—	20.07	0.77	1.04	18.72	3.53
	Expenditures in million dollars									
1970	43.1	15.3	2.7	0.2	3.9	6.9	—	0.1	0.8	66.2
1975	84.9	14.2	8.9	0.2	10.4	19.5	25.5	(s)	2.5	146.6
1980	230.9	16.0	5.6	—	10.1	15.8	48.6	(s)	24.0	335.3
1985	286.5	4.7	1.7	—	(s)	1.7	61.4	—	85.9	440.3
1990	373.7	10.4	2.8	3.3	(s)	6.2	61.2	4.8	49.8	505.9
1995	348.7	14.8	3.2	3.2	—	6.4	66.2	4.4	182.0	622.5
2000	370.2	45.2	9.5	2.2	(s)	11.7	61.2	3.6	487.7	979.5
2005	391.9	241.5	14.3	2.7	2.5	19.6	62.2	10.6	572.0	1,297.8
2006	417.3	217.0	11.7	2.1	1.1	14.9	63.4	10.7	662.7	1,386.1
2007	508.8	251.6	36.5	2.0	2.9	41.3	69.7	20.1	631.8	1,523.4
2008	549.9	229.8	19.6	1.8	1.0	22.4	64.8	23.5	547.4	1,437.9
2009	500.7	155.4	9.6	—	0.2	9.8	92.1	26.1	342.2	1,126.3
2010	506.1	217.1	6.2	—	—	6.2	118.1	52.7	353.4	1,253.6
2011	560.3	167.6	7.0	—	—	7.0	112.4	50.3	312.9	1,210.4
2012	467.5	216.6	8.1	—	—	8.1	114.2	51.9	226.4	1,084.7
2013	488.2	237.2	9.1	—	—	9.1	108.5	42.2	320.5	1,205.6
2014	565.8	184.6	14.9	—	—	14.9	119.4	46.7	326.4	1,257.8
2015	482.1	202.0	4.4	—	—	4.4	106.4	46.0	289.1	1,130.0
2016	496.9	208.9	4.0	—	—	4.0	117.0	46.2	253.7	1,126.6
2017	492.2	196.4	4.3	—	—	4.3	114.4	39.8	227.6	1,074.6
2018	530.2	234.2	7.2	—	—	7.2	121.9	17.6	153.9	1,065.0
2019	376.2	275.2	8.5	—	—	8.5	119.0	22.0	250.7	1,051.5
2020	289.1	240.3	2.9	—	—	2.9	123.5	8.1	83.1	747.1
2021	353.0	453.5	18.7	—	—	18.7	114.1	3.7	124.1	1,067.0
2022	390.9	533.8	14.5	—	—	14.5	118.2	9.1	355.0	1,421.5
2023	316.4	535.9	18.1	—	—	18.1	96.4	8.3	422.5	1,397.7

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[c] Electricity imported from Canada and Mexico.
[d] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET1. Primary energy, electricity, and total energy price and expenditure estimates, selected years, 1970-2023, Mississippi

Year	Primary energy														Electric power sector [i,k,l]	Electricity [m]	Total energy [h,i,j]
	Coal				Petroleum								Biomass				
	Coking coal	Steam coal	Total	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Nuclear fuel	Wood and waste [g,h]	Total [h,i,j,k]			
	Prices in dollars per million Btu																
1970	—	0.26	0.26	0.38	1.32	1.77	0.73	2.84	0.45	1.22	2.13	—	1.35	1.15	0.27	4.44	1.71
1975	—	0.83	0.83	0.87	2.24	3.38	2.03	4.34	1.67	2.59	3.12	—	1.51	2.26	1.24	7.58	3.18
1980	—	1.83	1.83	2.55	6.89	6.28	6.39	10.53	2.84	6.15	7.10	—	2.01	4.89	2.16	13.69	7.26
1985	—	2.50	2.50	3.76	6.76	7.80	5.84	8.75	4.06	7.43	7.70	1.13	2.37	5.11	2.30	17.05	8.14
1990	—	1.66	1.66	2.75	7.47	6.70	5.16	9.21	2.33	6.52	7.55	1.11	1.12	4.41	1.54	18.05	7.85
1995	—	1.54	1.54	2.62	6.62	7.04	3.73	8.91	1.92	6.87	7.22	0.52	1.23	4.08	1.32	17.74	7.67
2000	—	1.53	1.53	4.69	9.74	12.72	6.24	11.73	3.30	7.86	9.72	0.42	1.51	5.68	1.98	17.27	9.77
2005	—	2.25	2.25	9.61	16.51	18.32	12.59	17.66	6.48	9.82	15.88	0.40	2.94	9.59	4.17	22.27	15.37
2006	—	2.48	2.48	8.59	18.52	20.18	14.27	19.97	8.27	10.85	18.07	0.45	2.88	10.18	3.50	24.64	16.98
2007	—	2.94	2.94	8.07	19.66	22.79	15.73	21.62	7.99	11.28	19.56	0.48	2.80	10.68	4.18	23.74	17.35
2008	—	3.26	3.26	10.12	26.58	28.51	22.85	25.46	9.35	14.59	24.85	0.44	3.36	13.36	5.01	26.59	21.34
2009	—	3.38	3.38	5.72	16.83	23.09	12.42	18.22	9.62	20.53	17.49	0.62	3.12	9.16	3.05	26.18	16.83
2010	—	3.21	3.21	5.73	20.58	24.42	16.13	21.79	8.25	R 22.83	21.20	0.77	3.13	10.04	3.50	25.46	17.94
2011	—	3.88	3.88	5.16	26.61	28.00	22.45	27.63	11.33	R 24.89	26.79	0.78	3.30	11.91	3.37	26.00	20.73
2012	—	4.46	4.46	3.82	27.25	23.36	22.84	28.09	12.40	R 29.64	27.34	0.91	3.03	11.78	2.85	25.50	20.56
2013	—	3.96	3.96	4.86	26.88	23.14	22.29	27.25	11.88	R 28.69	26.76	1.01	3.25	11.93	3.17	26.90	21.12
2014	—	3.29	3.29	R 5.48	25.83	26.87	18.55	25.98	11.39	R 29.87	25.91	0.88	3.77	R 11.70	3.41	28.35	20.97
2015	—	3.10	3.10	3.73	R 17.75	18.39	11.05	18.23	7.51	R 25.35	18.15	0.81	3.26	8.13	2.41	28.12	16.96
2016	—	2.69	2.69	3.51	15.12	17.44	9.24	16.36	5.43	R 21.78	15.97	0.49	3.17	7.64	2.50	25.59	15.43
2017	—	2.66	2.66	4.04	17.31	21.13	11.76	18.56	7.68	21.77	18.09	1.03	3.08	8.64	2.76	26.83	16.73
2018	—	2.69	2.69	4.11	20.75	22.30	15.18	20.47	9.60	24.03	20.64	0.99	2.83	9.29	2.84	27.28	17.96
2019	—	2.94	2.94	3.68	19.71	18.56	13.96	19.03	9.04	R 32.30	19.45	0.80	2.78	8.48	2.34	27.39	17.35
2020	—	2.64	2.64	3.16	15.80	16.25	9.87	15.56	6.59	R 25.22	15.88	0.38	R 2.22	7.05	2.07	26.97	15.26
2021	—	2.58	2.58	4.82	21.21	22.88	14.02	22.36	9.96	R 25.49	21.89	0.53	R 2.90	9.70	2.99	28.07	18.93
2022	—	3.95	3.95	R 7.29	32.81	24.71	25.45	29.10	16.99	R 32.26	R 30.23	0.62	R 3.23	R 13.88	5.17	30.61	R 24.15
2023	—	4.02	4.02	3.99	27.31	21.25	20.32	25.71	13.84	30.34	26.12	0.65	3.37	10.61	2.41	32.33	22.44
	Expenditures in million dollars																
1970	—	3.5	3.5	111.2	46.2	57.7	6.3	362.5	1.9	40.6	515.2	—	12.8	642.7	-31.7	225.9	836.9
1975	—	27.5	27.5	154.3	127.6	101.8	16.3	633.5	126.6	85.3	1,091.1	—	13.3	1,286.2	-154.7	486.0	1,617.6
1980	—	137.6	137.6	553.4	383.8	125.6	53.3	1,481.0	284.7	137.2	2,465.6	—	19.5	3,176.1	-438.6	1,075.9	3,813.4
1985	—	273.2	273.2	710.7	529.8	132.6	134.1	1,267.5	33.5	157.2	2,254.7	52.2	29.5	3,320.3	-475.1	1,455.8	4,301.0
1990	—	172.4	172.4	557.4	575.3	170.7	201.1	1,407.2	49.7	144.2	2,548.2	87.1	60.8	3,425.9	-386.3	1,914.8	4,954.5
1995	—	159.9	159.9	623.9	541.4	172.1	159.9	1,577.3	31.3	150.6	2,632.5	44.1	100.6	3,561.1	-390.4	2,190.4	5,361.1
2000	—	225.0	225.0	1,220.2	935.2	310.4	318.8	2,268.2	122.6	207.0	4,162.2	47.1	101.0	5,755.5	-765.6	2,605.6	7,595.5
2005	—	397.0	397.0	2,587.8	1,934.4	217.8	421.4	3,645.9	133.8	269.2	6,622.4	41.8	162.9	9,812.0	-1,807.6	3,391.2	11,395.5
2006	—	471.8	471.8	2,340.5	2,300.3	268.4	574.4	4,151.2	73.8	359.0	7,727.0	49.0	164.3	10,752.5	-1,553.0	3,828.7	13,028.1
2007	—	543.6	543.6	2,622.6	2,604.5	260.5	389.3	4,506.3	72.8	382.7	8,216.2	47.5	159.7	11,589.6	-1,977.0	3,775.2	13,387.8
2008	—	577.0	577.0	3,135.1	3,269.1	338.9	531.8	5,117.8	52.2	346.8	9,656.5	43.0	134.1	13,545.6	-2,228.8	4,183.1	15,499.9
2009	—	478.7	478.7	1,808.9	1,987.1	277.2	341.8	3,510.6	47.1	315.1	6,479.0	71.0	100.9	8,938.5	-1,341.9	3,961.5	11,558.1
2010	—	476.8	476.8	2,222.8	2,342.4	295.0	118.3	4,350.7	47.3	R 365.7	R 7,519.4	77.7	153.2	R 10,450.1	-1,697.7	4,147.1	R 12,899.4
2011	—	416.7	416.7	2,012.9	R 2,952.0	304.3	145.0	5,294.9	67.9	R 451.1	R 9,215.3	84.8	161.2	R 11,891.0	-1,547.5	4,202.5	R 14,546.1
2012	—	367.5	367.5	1,640.5	R 3,134.9	202.5	151.8	5,545.6	85.2	R 382.7	R 9,502.7	69.9	189.6	R 11,770.2	-1,283.3	4,040.3	R 14,527.3
2013	—	387.1	387.1	R 1,811.4	R 2,999.1	230.9	168.1	5,338.8	52.9	R 381.3	R 9,171.1	114.8	159.8	R 11,644.3	-1,417.6	4,373.3	R 14,600.0
2014	—	383.0	383.0	R 2,129.5	R 2,958.0	308.6	128.4	5,276.0	10.4	R 371.3	R 9,052.6	94.1	R 189.5	R 11,848.6	-1,583.2	4,668.6	R 14,934.1
2015	—	222.2	222.2	1,802.0	R 2,107.3	177.3	71.9	3,777.8	23.2	R 380.7	R 6,538.2	99.6	R 154.3	R 8,816.2	-1,286.1	4,579.2	R 12,109.3
2016	—	164.4	164.4	1,791.2	R 1,840.3	165.0	57.9	3,451.3	19.7	R 332.1	R 5,866.4	30.5	R 148.5	R 8,000.9	-1,255.1	4,194.9	R 10,940.8
2017	—	143.1	143.1	1,997.9	R 2,125.8	185.0	75.1	3,826.1	30.4	321.4	R 6,563.7	79.7	136.5	R 8,920.8	-1,329.1	4,289.6	R 11,881.4
2018	—	161.3	161.3	2,194.4	R 2,607.2	222.4	R 90.6	4,103.3	12.9	362.7	R 7,399.1	72.0	R 130.7	R 9,957.4	-1,450.8	4,593.3	R 13,100.0
2019	—	150.3	150.3	1,928.2	R 2,467.7	194.5	90.8	3,942.6	14.0	R 293.5	R 7,003.1	91.6	R 126.3	R 9,299.6	-1,258.9	4,488.1	R 12,528.7
2020	—	143.1	143.1	1,739.0	R 1,929.7	155.6	60.2	3,016.5	7.3	R 308.3	R 5,477.7	25.6	R 98.9	R 7,484.3	-1,081.2	4,185.9	R 10,589.0
2021	—	166.0	166.0	2,475.9	R 2,566.3	241.6	89.2	4,589.4	22.8	R 380.1	R 7,889.4	64.8	R 130.4	R 10,726.6	-1,642.6	4,504.6	R 13,588.6
2022	—	261.8	261.8	R 3,985.4	R 4,064.8	261.9	R 188.6	5,860.1	39.8	R 507.4	R 10,922.5	55.8	R 139.1	R 15,364.7	-2,808.6	5,006.5	R 17,562.5
2023	—	199.4	199.4	2,209.2	3,309.2	202.6	173.0	5,188.2	26.9	421.5	9,321.4	79.8	145.3	11,955.1	-1,408.8	5,233.1	15,779.3

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[l] Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
[m] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.
Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET2. Total end-use energy price and expenditure estimates, selected years, 1970-2023, Mississippi

Year	Primary energy											Electricity [k]	Total energy [h,i,j]
			Petroleum							Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g,h]	Total [h,i,j]		
	Prices in dollars per million Btu												
1970	0.33	0.44	1.33	1.77	0.73	2.84	0.42	1.22	2.15	1.35	1.39	4.44	1.71
1975	1.11	0.88	2.24	3.38	2.03	4.34	1.63	2.59	3.41	1.51	2.55	7.58	3.18
1980	1.66	2.89	6.90	6.28	6.39	10.53	2.75	6.15	7.51	2.01	6.13	13.69	7.26
1985	1.85	4.17	6.76	7.80	5.84	8.75	4.05	7.43	7.71	2.37	6.42	17.05	8.14
1990	1.74	3.25	7.48	6.70	5.16	9.21	2.32	6.52	7.67	1.12	5.79	18.05	7.85
1995	1.64	3.47	6.62	7.04	3.73	8.91	1.92	6.87	7.23	1.23	5.51	17.74	7.67
2000	1.64	5.22	9.75	12.72	6.24	11.73	3.27	7.86	10.18	1.51	7.97	17.27	9.77
2005	2.63	10.14	16.55	18.32	12.59	17.66	6.70	9.82	16.24	2.94	13.59	22.27	15.37
2006	2.79	10.40	18.53	20.18	14.27	19.97	8.48	10.85	18.17	2.88	15.03	24.64	16.98
2007	3.02	9.25	19.68	22.79	15.73	21.62	8.31	11.28	19.68	2.80	15.69	23.74	17.35
2008	3.73	11.02	26.59	28.51	22.85	25.46	9.45	14.59	24.89	3.36	19.89	26.59	21.34
2009	3.87	7.75	16.84	23.09	12.42	18.22	9.62	20.53	17.49	3.12	14.19	26.18	16.83
2010	3.87	7.15	20.58	24.42	16.13	21.79	8.15	R 22.83	21.23	3.13	15.74	25.46	17.94
2011	4.07	6.65	26.62	28.00	22.45	27.63	11.26	R 24.89	26.80	3.30	19.16	26.00	20.73
2012	4.65	5.79	27.25	23.36	22.84	28.09	12.40	R 29.64	27.34	3.03	19.13	25.50	20.56
2013	4.42	6.60	26.88	23.14	22.29	27.25	11.88	R 28.69	26.76	3.25	19.34	26.90	21.12
2014	4.24	6.97	25.84	26.87	18.55	25.98	11.38	R 29.87	R 25.91	R 3.77	18.75	28.35	20.97
2015	4.29	5.86	17.76	18.39	11.05	18.23	7.51	R 25.35	18.16	3.26	13.66	28.12	16.96
2016	—	5.59	15.13	17.44	9.24	16.36	5.43	R 21.78	15.98	3.17	12.38	25.59	15.43
2017	—	6.23	17.31	21.13	11.76	18.56	7.68	21.77	18.09	R 3.08	13.80	26.83	16.73
2018	—	6.25	20.76	22.30	15.18	20.47	9.60	24.03	20.65	2.83	15.16	27.28	17.96
2019	3.13	5.97	19.71	18.56	13.96	19.03	9.04	R 32.30	19.46	2.78	14.40	27.39	17.35
2020	3.09	5.58	15.80	16.25	9.87	15.56	6.59	R 25.22	15.88	R 2.22	11.89	26.97	15.26
2021	3.05	7.06	21.21	22.88	14.02	22.36	9.96	R 25.49	21.89	R 2.90	16.30	28.07	18.93
2022	4.16	9.46	32.81	24.71	25.45	29.10	16.99	R 32.26	R 30.23	R 3.23	R 22.28	30.61	R 24.15
2023	5.25	7.68	27.32	21.25	20.32	25.71	13.84	30.34	26.12	3.38	19.49	32.33	22.44
	Expenditures in million dollars												
1970	0.4	83.9	46.1	57.7	6.3	362.5	0.7	40.6	513.9	12.8	611.0	225.9	836.9
1975	0.6	127.4	124.4	101.8	16.3	633.5	29.1	85.3	990.3	13.3	1,131.6	486.0	1,617.6
1980	2.1	349.2	381.5	125.6	53.3	1,481.0	188.0	137.2	2,366.7	19.5	2,737.5	1,075.9	3,813.4
1985	10.8	555.1	527.7	132.6	134.1	1,267.5	30.6	157.2	2,249.7	29.5	2,845.1	1,455.8	4,301.0
1990	10.9	438.5	573.9	170.7	201.1	1,407.2	32.3	144.2	2,529.4	60.8	3,039.6	1,914.8	4,954.5
1995	11.3	427.2	540.5	172.1	159.9	1,577.3	31.2	150.6	2,631.6	100.6	3,170.6	2,190.4	5,361.1
2000	6.1	816.6	933.5	310.4	318.8	2,268.2	28.2	207.0	4,066.2	101.0	4,989.9	2,605.6	7,595.5
2005	7.6	1,312.2	1,929.8	217.8	421.4	3,645.9	37.7	269.2	6,521.7	162.9	8,004.3	3,391.2	11,395.5
2006	10.1	1,333.1	2,298.1	268.4	574.4	4,151.2	41.0	359.0	7,692.0	164.3	9,199.5	3,828.7	13,028.1
2007	10.7	1,263.0	2,598.8	260.5	389.3	4,506.3	41.7	382.7	8,179.3	159.7	9,612.6	3,775.2	13,387.8
2008	11.7	1,525.2	3,264.4	338.9	531.8	5,117.8	46.2	346.8	9,645.8	134.1	11,316.8	4,183.1	15,499.9
2009	10.0	1,009.2	R 1,985.4	277.2	341.8	3,510.6	46.4	315.1	6,476.6	100.9	7,596.6	3,961.5	11,558.1
2010	11.0	1,077.3	2,340.3	295.0	118.3	4,350.7	40.8	R 365.7	R 7,510.9	153.2	R 8,752.3	4,147.1	R 12,899.4
2011	10.7	963.0	R 2,948.2	304.3	145.0	5,294.9	65.0	R 451.1	R 9,208.6	161.2	R 10,343.6	4,202.5	R 14,546.1
2012	12.1	785.9	R 3,131.5	202.5	151.8	5,545.6	85.2	R 382.7	R 9,499.4	189.5	R 10,486.9	4,040.3	R 14,527.3
2013	12.4	R 886.4	R 2,996.3	230.9	168.1	5,338.8	52.9	R 381.3	R 9,168.3	159.6	R 10,226.7	4,373.3	R 14,600.0
2014	10.7	R 1,016.6	R 2,954.4	308.6	128.4	5,276.0	10.3	R 371.3	R 9,049.0	R 189.2	R 10,265.4	4,668.6	R 14,934.1
2015	11.0	829.2	R 2,105.1	177.3	71.9	3,777.8	23.2	R 380.7	R 6,536.0	154.0	R 7,530.1	4,579.2	R 12,109.3
2016	—	R 733.0	R 1,838.5	165.0	57.9	3,451.3	19.7	R 332.1	R 5,864.6	148.3	R 6,745.9	4,194.9	R 10,940.8
2017	—	893.5	R 2,124.1	185.0	75.1	3,826.1	30.4	321.4	R 6,562.0	136.2	R 7,591.7	4,289.6	R 11,881.4
2018	—	981.4	R 2,602.9	222.4	R 90.6	4,103.3	12.9	362.7	R 7,394.9	R 130.4	R 8,506.7	4,593.3	R 13,100.0
2019	1.8	911.7	R 2,465.8	194.5	90.8	3,942.6	14.0	R 293.5	R 7,001.2	R 126.0	R 8,040.7	4,488.1	R 12,528.7
2020	6.9	820.4	R 1,929.0	155.6	60.2	3,016.5	7.3	R 308.3	R 5,477.0	R 98.7	R 6,403.1	4,185.9	R 10,589.0
2021	6.7	1,058.7	R 2,565.2	241.6	89.2	4,589.4	22.8	R 380.1	R 7,888.3	R 130.2	R 9,084.0	4,504.6	R 13,588.6
2022	8.5	R 1,487.9	R 4,063.1	261.9	R 188.6	5,860.1	39.8	R 507.4	R 10,920.9	R 138.8	R 12,556.1	5,006.5	R 17,562.5
2023	12.2	1,068.8	3,308.0	202.6	173.0	5,188.2	26.9	421.5	9,320.2	145.0	10,546.2	5,233.1	15,779.3

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. · Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2023, Mississippi

Year	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
	Prices in dollars per million Btu									
1970	—	0.86	1.24	2.13	2.06	2.10	0.85	1.26	5.06	2.35
1975	—	1.38	2.49	4.10	3.79	3.97	1.69	2.27	8.06	4.37
1980	2.97	3.36	6.89	8.35	10.48	8.41	4.31	4.39	14.38	8.97
1985	2.74	5.33	7.07	7.71	6.78	7.69	4.88	5.73	18.12	11.87
1990	2.70	5.16	4.59	9.50	4.98	9.45	3.53	5.87	20.19	13.48
1995	—	5.17	5.33	10.33	4.07	10.22	2.87	5.92	20.49	14.16
2000	—	7.18	8.60	14.91	8.01	14.80	4.37	9.52	20.31	15.71
2005	—	12.94	14.24	21.38	13.67	21.21	6.83	14.25	25.53	21.52
2006	—	14.30	16.45	24.07	17.40	23.98	7.87	15.99	28.30	24.30
2007	—	12.67	18.00	25.92	15.80	25.80	8.70	15.13	27.43	23.38
2008	—	13.59	25.06	30.90	19.59	30.87	10.72	17.27	30.46	25.79
2009	—	11.00	14.64	25.93	19.98	25.87	8.05	14.28	29.96	24.39
2010	—	9.99	17.78	27.44	21.17	27.38	9.50	13.56	28.93	23.48
2011	—	9.32	25.59	31.41	26.15	31.39	11.42	13.86	29.80	24.41
2012	—	9.45	25.50	28.77	27.37	28.76	12.71	13.18	30.08	24.98
2013	—	8.89	26.53	28.47	26.87	28.47	12.45	12.41	31.58	24.92
2014	—	9.25	25.57	33.63	26.06	33.60	12.14	13.76	33.17	25.94
2015	—	9.46	16.04	25.16	17.13	25.14	8.37	12.30	33.04	26.39
2016	—	9.79	13.61	23.99	13.66	23.95	7.15	12.55	30.67	25.31
2017	—	11.43	15.78	28.02	17.08	28.01	8.00	14.69	32.47	27.33
2018	—	10.18	17.40	29.14	24.67	29.13	8.85	13.53	32.58	26.46
2019	—	10.29	16.76	25.45	23.04	25.45	8.51	13.20	33.02	26.64
2020	—	11.20	13.76	22.26	14.96	22.25	7.04	R 13.23	32.75	R 26.85
2021	—	12.30	16.44	29.20	23.63	29.19	8.45	R 15.51	33.87	R 28.29
2022	—	R 14.10	25.39	32.46	37.37	32.47	13.07	R 17.40	36.39	R 30.54
2023	—	15.24	23.24	30.05	34.35	30.06	11.95	17.99	38.76	32.87
	Expenditures in million dollars									
1970	—	32.4	0.6	37.5	0.9	39.0	1.6	72.9	118.7	191.6
1975	—	41.6	2.8	59.4	2.7	65.0	3.1	109.6	222.5	332.2
1980	(s)	102.6	0.3	63.0	2.6	65.9	7.8	176.3	488.9	665.2
1985	(s)	140.4	0.1	50.6	1.0	51.7	15.7	207.8	646.0	853.8
1990	(s)	133.6	(s)	70.3	0.3	70.6	12.6	216.8	845.1	1,062.0
1995	—	142.5	(s)	68.9	0.5	69.4	8.1	220.0	991.3	1,211.3
2000	—	202.5	0.1	204.4	1.6	206.1	6.6	415.1	1,191.5	1,606.6
2005	—	325.6	0.7	141.5	1.3	143.5	12.9	482.1	1,564.2	2,046.2
2006	—	314.7	(s)	151.3	1.4	152.8	13.2	480.7	1,764.9	2,245.6
2007	—	289.8	(s)	163.8	1.1	165.0	16.1	471.0	1,737.5	2,208.5
2008	—	332.8	(s)	235.4	0.4	235.9	22.2	591.0	1,901.5	2,492.5
2009	—	263.6	(s)	203.9	1.5	205.4	17.4	486.4	1,849.9	2,336.3
2010	—	276.7	(s)	212.4	1.4	213.8	22.0	512.5	1,991.6	2,504.1
2011	—	230.1	(s)	209.8	0.9	210.7	25.6	466.4	1,966.1	2,432.5
2012	—	187.9	(s)	138.1	0.4	138.5	23.8	350.2	1,846.7	2,196.9
2013	—	226.7	(s)	158.8	0.4	159.3	30.4	416.4	1,989.6	2,406.0
2014	—	268.8	(s)	227.6	0.7	228.4	30.0	527.2	2,141.3	2,668.4
2015	—	225.5	(s)	137.0	0.2	137.2	4.6	367.3	2,092.2	2,459.5
2016	—	203.1	(s)	125.6	0.2	125.8	3.6	332.4	1,932.0	2,264.4
2017	—	218.2	(s)	135.0	0.1	135.1	2.5	355.8	1,932.7	2,288.5
2018	—	255.0	(s)	161.4	0.2	161.6	5.1	R 421.8	2,146.5	2,568.3
2019	—	245.1	(s)	149.6	0.2	149.8	R 5.3	400.2	2,108.8	2,509.0
2020	—	237.2	(s)	111.3	0.1	111.5	R 2.7	R 351.4	2,010.5	R 2,361.9
2021	—	269.2	(s)	155.7	0.2	155.9	R 3.3	R 428.5	2,145.8	R 2,574.3
2022	—	R 324.9	(s)	168.2	0.3	168.5	R 6.6	R 500.1	2,348.6	R 2,848.7
2023	—	304.3	(s)	142.2	0.5	142.7	4.3	451.4	2,452.7	2,904.0

[a] Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2023, Mississippi

Year	Primary energy										Electricity [j]	Total energy [g,h,i]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f,g]	Total [g,h,i]		
	Prices in dollars per million Btu											
1970	—	0.57	0.96	1.31	—	2.84	0.49	1.35	0.85	0.74	5.53	1.92
1975	—	0.92	2.18	2.58	—	4.34	1.72	2.21	1.69	1.35	8.59	3.31
1980	1.65	2.97	6.27	4.70	—	10.53	3.02	3.40	4.31	3.20	15.87	6.67
1985	1.85	4.95	6.24	7.15	6.78	8.75	4.33	6.73	4.88	5.49	19.50	11.93
1990	1.74	4.34	5.57	5.02	4.98	9.21	—	5.90	3.53	4.69	21.34	13.21
1995	—	4.20	4.19	8.73	4.07	8.91	—	6.73	2.87	4.61	20.92	13.23
2000	—	6.24	6.94	12.06	8.01	11.73	—	10.76	4.37	7.18	19.16	14.26
2005	—	11.70	13.37	17.14	13.67	17.66	—	16.17	6.83	12.33	24.87	20.18
2006	—	11.96	15.67	18.97	17.40	19.97	—	17.93	7.87	12.81	27.46	22.33
2007	—	10.81	17.33	20.90	15.80	21.62	—	18.22	8.70	12.92	26.15	20.86
2008	—	12.15	24.18	25.33	19.59	25.46	13.24	24.62	10.72	14.90	29.36	23.94
2009	—	9.27	13.92	20.36	19.98	18.22	—	16.35	8.05	10.93	27.84	21.60
2010	—	8.58	17.94	21.68	21.17	21.79	—	19.46	9.50	10.84	27.30	21.22
2011	—	7.86	24.33	25.25	26.15	27.63	—	24.74	11.42	11.70	27.78	21.91
2012	—	7.26	25.05	19.15	27.37	28.09	—	23.24	12.71	11.10	27.33	21.79
2013	—	7.52	24.32	18.73	26.87	27.25	—	22.28	12.45	R 10.85	29.60	23.09
2014	—	8.13	22.15	19.84	26.06	25.98	—	21.46	12.14	11.07	31.54	23.78
2015	—	7.67	13.24	11.83	17.13	18.23	—	14.34	8.37	9.56	30.91	23.10
2016	—	7.59	11.29	11.72	13.66	16.36	—	12.87	7.15	9.20	28.06	21.43
2017	—	8.52	13.61	15.33	17.08	18.56	—	15.38	8.00	10.67	29.80	23.02
2018	—	8.29	17.01	16.78	24.67	20.47	—	18.05	8.85	10.84	30.57	23.24
2019	—	8.27	15.85	13.00	23.04	19.03	—	16.27	8.51	10.31	30.83	23.28
2020	—	8.44	10.53	12.18	14.96	15.56	—	12.46	7.04	9.64	30.43	22.63
2021	—	9.68	16.77	19.46	23.63	22.36	—	19.22	8.45	12.34	31.69	24.50
2022	—	11.82	28.56	20.65	37.37	29.10	—	26.46	13.07	16.01	34.46	27.49
2023	—	11.40	22.46	16.27	34.35	25.71	—	22.17	11.95	14.24	36.25	28.36
	Expenditures in million dollars											
1970	—	13.9	0.6	7.3	—	1.4	0.1	9.4	(s)	23.3	57.0	80.3
1975	—	22.6	3.0	11.9	—	2.4	9.7	27.0	0.1	49.6	116.7	166.3
1980	0.1	64.1	0.9	11.3	—	6.8	64.7	83.6	0.2	148.0	276.8	424.7
1985	(s)	84.1	27.4	14.9	1.5	6.2	0.3	50.3	0.4	134.9	407.9	542.7
1990	(s)	78.6	13.0	11.8	0.2	8.0	—	33.0	1.4	112.9	539.3	652.2
1995	—	85.3	7.8	18.5	0.2	2.3	—	28.7	1.1	115.1	586.1	701.2
2000	—	141.1	10.5	52.5	0.4	2.7	—	66.2	1.1	208.4	803.4	1,011.7
2005	—	251.2	15.0	30.9	0.6	17.8	—	64.3	2.1	317.5	1,074.7	1,392.2
2006	—	238.0	18.2	41.9	0.6	3.3	—	64.0	2.2	304.2	1,213.0	1,517.2
2007	—	231.0	114.0	41.3	0.4	3.6	—	159.2	2.6	392.8	1,195.6	1,588.5
2008	—	251.9	88.9	54.1	0.2	4.9	(s)	148.1	3.4	403.3	1,325.4	1,728.7
2009	—	181.0	52.6	44.9	0.1	3.0	—	100.5	2.5	284.0	1,236.2	1,520.2
2010	—	185.3	60.7	46.5	0.2	3.5	—	111.0	2.9	299.1	1,286.0	1,585.1
2011	—	161.8	92.4	53.1	0.1	4.4	—	150.1	3.3	315.2	1,302.2	1,617.3
2012	—	131.4	91.7	35.3	0.1	5.2	—	132.2	3.2	266.9	1,267.0	1,533.9
2013	—	148.3	R 81.2	40.8	0.1	5.2	—	R 127.2	3.7	R 279.2	1,433.1	R 1,712.3
2014	—	185.6	R 89.4	43.8	0.1	4.4	—	R 137.7	R 3.6	326.8	1,525.4	1,852.2
2015	—	155.3	R 49.8	22.8	(s)	41.9	—	R 114.6	R 0.6	R 270.5	1,517.8	1,788.2
2016	—	141.5	R 44.1	22.0	0.1	39.1	—	R 105.2	R 0.5	R 247.2	1,390.3	1,637.5
2017	—	155.6	R 56.9	28.1	(s)	43.7	—	R 128.8	R 0.4	R 284.8	1,449.4	R 1,734.2
2018	—	178.8	R 65.9	23.7	0.1	49.0	—	R 138.7	R 0.7	318.1	1,515.7	R 1,833.9
2019	—	173.5	R 49.9	21.4	0.1	45.9	—	R 117.4	R 0.7	291.5	1,497.8	1,789.2
2020	—	158.9	R 38.2	24.8	0.1	37.7	—	R 100.9	0.5	R 260.3	1,368.9	R 1,629.2
2021	—	191.9	R 56.1	37.4	0.1	54.7	—	148.2	0.6	R 340.7	1,478.6	R 1,819.3
2022	—	245.3	R 98.3	49.4	0.1	73.0	—	R 220.8	1.0	R 467.1	1,656.4	R 2,123.5
2023	—	226.9	66.3	27.1	0.2	64.8	—	158.4	0.8	386.0	1,760.2	2,146.3

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[g] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[j] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: Expenditure totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2023, Mississippi

	Primary energy													
	Coal				Petroleum						Biomass			
	Coking coal	Steam coal	Total	Natural gas [a]	Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e,f]	Total [f,g,h]	Electricity [i]	Total energy [f,g,h]
Year	Prices in dollars per million Btu													
1970	—	0.33	0.33	0.29	0.74	1.38	2.84	0.40	0.93	0.97	1.47	0.54	2.94	0.73
1975	—	1.11	1.11	0.71	1.70	2.80	4.34	1.77	2.22	2.11	1.47	1.33	6.39	1.94
1980	—	1.65	1.65	2.66	5.55	5.12	10.53	2.82	5.12	4.80	1.47	3.54	11.42	4.82
1985	—	1.85	1.85	3.68	6.21	8.03	8.75	4.33	6.36	6.69	1.47	4.49	13.94	5.95
1990	—	1.74	1.74	2.49	5.89	5.59	9.21	3.02	5.01	5.52	0.93	3.02	13.62	4.67
1995	—	1.64	1.64	2.65	4.52	5.30	8.91	2.47	5.42	5.16	1.17	2.78	13.03	4.58
2000	—	1.64	1.64	4.48	7.22	7.99	11.73	3.90	6.50	7.32	1.44	4.22	12.14	5.66
2005	—	2.63	2.63	8.89	13.86	12.71	17.66	6.83	8.03	11.42	2.78	7.86	15.74	9.41
2006	—	2.79	2.79	9.05	16.15	15.47	19.97	8.16	8.86	12.80	2.71	8.33	17.42	10.08
2007	—	3.02	3.02	8.05	17.60	17.42	21.62	9.24	9.13	12.98	2.57	7.86	16.86	9.61
2008	—	3.73	3.73	10.09	24.55	22.09	25.46	13.24	11.36	17.63	2.89	10.28	19.22	12.24
2009	—	3.87	3.87	6.50	14.24	13.55	18.22	9.55	16.82	15.62	2.72	7.52	19.38	10.28
2010	—	3.87	3.87	6.07	18.23	15.51	21.79	11.59	R 17.07	R 17.91	2.77	7.32	18.53	R 9.60
2011	—	4.07	4.07	5.74	24.41	19.17	27.63	15.77	R 19.11	R 21.91	2.86	R 8.03	19.14	R 10.37
2012	—	4.65	4.65	4.78	25.16	13.61	28.09	17.07	R 22.02	R 23.76	2.69	R 7.47	18.29	9.70
2013	—	4.42	4.42	5.75	24.64	13.22	27.25	16.84	R 21.61	R 23.29	2.71	8.57	18.58	10.84
2014	—	4.24	4.24	5.98	23.28	14.24	25.98	16.10	R 22.16	R 22.55	3.29	R 8.43	19.35	R 10.89
2015	—	4.29	4.29	4.60	14.03	6.94	18.23	10.37	R 17.70	R 15.31	3.20	6.10	19.23	R 9.00
2016	—	—	—	4.23	12.37	6.84	16.36	7.39	R 14.21	R 13.00	3.12	R 5.49	16.98	R 8.18
2017	—	—	—	4.90	15.05	10.34	18.56	9.89	14.51	14.75	3.04	6.22	17.55	8.72
2018	—	—	—	4.96	18.50	11.70	20.47	11.22	16.93	17.42	2.74	6.61	17.59	9.02
2019	—	3.13	3.13	4.57	17.06	7.80	19.03	11.43	R 21.30	R 17.30	2.69	6.04	17.15	8.50
2020	—	3.09	3.09	3.96	11.86	6.91	15.56	8.46	R 16.90	13.42	2.17	5.08	16.51	7.48
2021	—	3.05	3.05	5.52	18.25	13.83	22.36	12.65	R 17.79	R 17.90	2.84	7.01	17.45	9.22
2022	—	4.16	4.16	R 8.08	28.60	14.64	29.10	20.22	R 23.24	R 25.21	3.09	9.94	19.66	R 11.98
2023	—	5.25	5.25	5.42	23.07	10.07	25.71	18.15	22.02	21.63	3.29	7.83	20.39	10.61
	Expenditures in million dollars													
1970	—	0.4	0.4	37.6	13.3	10.5	4.6	0.5	27.5	56.4	11.2	105.7	50.2	155.9
1975	—	0.6	0.6	63.2	43.4	25.9	5.0	8.3	65.1	147.6	10.2	221.6	146.7	368.3
1980	—	2.0	2.0	182.6	111.3	48.6	4.1	37.3	97.8	299.1	11.5	495.3	310.2	805.5
1985	—	10.7	10.7	330.6	137.8	59.8	34.5	2.2	117.7	352.1	13.4	706.9	401.9	1,108.8
1990	—	10.9	10.9	226.3	132.0	85.0	28.0	12.9	97.2	355.1	46.8	639.1	530.5	1,169.6
1995	—	11.3	11.3	199.4	101.9	81.4	19.8	0.9	105.2	309.2	91.4	611.3	613.0	1,224.3
2000	—	6.1	6.1	473.0	137.1	47.1	46.2	0.2	153.5	384.1	93.4	956.5	610.8	1,567.2
2005	—	7.6	7.6	735.3	256.5	41.8	126.8	12.6	203.9	641.6	147.9	1,532.3	752.4	2,284.7
2006	—	10.1	10.1	780.4	266.0	72.3	153.5	3.4	272.9	768.1	148.8	1,707.4	850.8	2,558.2
2007	—	10.7	10.7	742.1	316.1	52.6	69.8	6.6	288.6	733.6	140.9	1,627.3	842.1	2,469.4
2008	—	11.7	11.7	940.4	404.4	40.5	55.5	10.2	246.1	756.8	108.5	1,817.5	956.2	2,773.7
2009	—	10.0	10.0	564.4	170.6	23.3	40.4	3.2	227.0	464.4	81.1	1,119.9	875.4	1,995.3
2010	—	11.0	11.0	615.2	254.7	31.2	68.4	1.4	R 229.6	R 585.3	128.4	R 1,339.9	869.5	R 2,209.4
2011	—	10.7	10.7	571.1	326.0	37.6	86.9	4.7	R 301.1	R 756.2	132.3	R 1,470.3	934.2	R 2,404.5
2012	—	12.1	12.1	466.6	467.3	25.4	84.1	3.5	R 234.9	R 815.2	162.5	R 1,456.4	926.7	R 2,383.1
2013	—	12.4	12.4	511.3	489.4	26.7	89.1	1.7	R 239.1	R 846.0	125.5	R 1,495.1	950.6	R 2,445.8
2014	—	10.7	10.7	561.4	441.1	33.6	73.8	(s)	R 225.3	R 773.8	155.5	R 1,501.5	1,002.0	R 2,503.5
2015	—	11.0	11.0	447.6	201.9	14.2	36.1	0.3	R 221.1	R 473.5	148.8	R 1,080.9	969.2	R 2,050.1
2016	—	—	—	387.6	164.0	14.8	31.2	(s)	R 182.0	R 392.0	144.1	R 923.7	872.6	R 1,796.3
2017	—	—	—	519.4	244.0	21.6	35.6	(s)	181.9	483.2	133.3	1,135.9	907.6	2,043.5
2018	—	—	—	547.1	285.1	32.9	39.7	(s)	218.4	576.1	124.6	1,247.8	931.1	2,178.9
2019	—	1.8	1.8	493.0	267.1	22.6	36.1	(s)	R 149.3	R 475.2	120.1	R 1,090.1	881.5	R 1,971.6
2020	—	6.9	6.9	424.3	187.7	15.8	29.8	(s)	R 172.8	R 406.1	95.5	932.7	806.4	1,739.1
2021	—	6.7	6.7	597.5	271.4	41.7	42.9	(s)	R 228.2	R 584.3	126.2	R 1,314.7	880.2	R 2,195.0
2022	—	8.5	8.5	R 917.5	429.7	44.2	57.5	(s)	R 314.4	R 845.9	R 131.2	R 1,903.0	1,001.4	R 2,904.4
2023	—	12.2	12.2	537.6	338.0	29.5	52.0	(s)	269.0	688.4	139.9	1,378.1	1,020.2	2,398.3

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[i] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET6. Transportation sector energy price and expenditure estimates, selected years, 1970-2023, Mississippi

Year	Primary energy											Electricity [g]	Total energy [f]
			Petroleum										
	Coal	Natural gas[a]	Aviation gasoline	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Lubricants	Motor gasoline [e]	Residual fuel oil	Total	Total [f]		
	Prices in dollars per million Btu												
1970	0.33	—	2.17	2.02	1.31	0.73	5.08	2.84	0.43	2.64	2.64	—	2.64
1975	1.11	—	3.45	2.75	2.58	2.03	7.48	4.34	1.49	3.91	3.91	—	3.91
1980	—	—	9.02	7.67	4.70	6.39	14.36	10.53	2.55	8.71	8.71	—	8.71
1985	—	—	9.99	7.05	8.06	5.84	18.18	8.75	4.03	7.99	7.99	—	7.99
1990	—	—	9.32	8.25	7.12	5.16	20.61	9.21	2.01	8.20	8.20	—	8.20
1995	—	1.60	8.36	7.53	11.71	3.73	21.75	8.91	1.91	7.59	7.59	—	7.59
2000	—	3.59	10.87	10.45	14.47	6.24	23.20	11.73	3.27	10.43	10.43	—	10.43
2005	—	12.05	18.56	17.10	20.71	12.59	35.22	17.66	6.64	16.96	16.96	—	16.96
2006	—	11.65	22.31	18.93	22.11	14.27	43.88	19.97	8.51	18.98	18.98	—	18.98
2007	—	11.11	23.70	20.17	24.96	15.73	47.16	21.62	8.15	20.70	20.70	—	20.70
2008	—	13.67	27.23	27.01	29.53	22.85	55.12	25.46	8.73	25.69	25.69	—	25.69
2009	—	11.90	20.32	17.25	23.50	12.42	56.07	18.22	9.63	17.48	17.48	—	17.48
2010	—	11.62	25.19	21.01	26.84	16.13	58.80	21.79	8.06	21.46	21.46	—	21.46
2011	—	11.26	31.64	27.02	30.52	22.45	69.54	27.63	11.01	27.30	27.30	—	27.30
2012	—	12.05	33.04	27.76	23.37	22.84	72.11	28.09	12.25	27.80	27.80	—	27.80
2013	—	R 11.86	32.71	27.49	22.87	22.29	69.42	27.25	11.77	27.24	27.24	—	27.24
2014	—	R 11.91	33.16	26.53	24.18	18.55	69.44	25.98	11.37	26.22	26.21	—	26.21
2015	—	R 11.53	24.86	18.47	14.78	11.05	67.28	18.23	7.48	18.41	18.41	—	18.41
2016	—	R 11.52	21.62	15.62	14.65	9.24	65.78	16.36	5.43	16.20	16.20	—	16.20
2017	—	R 11.72	24.13	17.82	19.25	11.76	67.25	18.56	7.68	18.36	18.36	—	18.36
2018	—	R 11.81	27.04	21.23	21.04	15.18	72.37	20.47	9.60	20.90	20.90	—	20.90
2019	—	R 12.18	25.57	20.22	16.25	13.96	74.92	19.03	9.04	19.60	19.60	—	19.60
2020	—	R 11.98	22.34	16.60	14.35	9.87	75.34	15.56	6.59	16.11	16.11	—	16.11
2021	—	R 12.42	28.86	21.79	23.84	14.02	81.25	22.36	9.96	22.25	22.25	—	22.25
2022	—	R 15.04	36.02	33.55	24.65	25.45	97.37	29.10	16.99	R 30.83	30.82	—	30.82
2023	—	15.77	32.62	28.06	18.55	20.32	105.48	25.71	13.84	26.61	26.61	—	26.61
	Expenditures in million dollars												
1970	(s)	—	3.5	31.6	2.4	6.3	8.7	356.5	(s)	409.1	409.1	—	409.1
1975	(s)	—	3.5	75.1	4.6	16.3	13.9	626.2	11.1	750.7	750.7	—	750.7
1980	—	—	9.4	269.0	2.7	53.3	27.4	1,470.2	86.0	1,918.0	1,918.0	—	1,918.0
1985	—	—	5.4	362.4	7.2	134.1	31.6	1,226.9	28.1	1,795.7	1,795.7	—	1,795.7
1990	—	—	6.2	428.9	3.6	201.1	40.3	1,371.3	19.4	2,070.8	2,070.8	—	2,070.8
1995	—	(s)	4.2	430.8	3.2	159.9	40.5	1,555.2	30.3	2,224.2	2,224.2	—	2,224.2
2000	—	0.1	5.4	785.9	6.3	318.8	46.2	2,219.2	28.1	3,409.9	3,409.9	—	3,409.9
2005	—	0.1	4.2	1,657.6	3.6	421.4	59.2	3,501.3	25.1	5,672.3	5,672.4	—	5,672.4
2006	—	(s)	12.3	2,013.8	2.8	574.4	71.8	3,994.4	37.6	6,707.1	6,707.2	—	6,707.2
2007	—	(s)	12.9	2,168.7	2.8	389.3	79.7	4,432.9	35.1	7,121.5	7,121.5	—	7,121.5
2008	—	(s)	13.5	2,771.1	8.9	531.8	86.5	5,057.4	35.9	8,505.0	8,505.0	—	8,505.0
2009	—	0.1	7.5	R 1,762.2	5.0	341.8	79.1	3,467.3	43.2	5,706.2	5,706.3	—	5,706.3
2010	—	(s)	9.4	2,024.8	4.9	118.3	125.2	4,278.7	39.4	R 6,600.7	6,600.8	—	6,600.8
2011	—	(s)	11.0	R 2,529.7	3.8	145.0	138.1	5,203.6	60.3	R 8,091.7	R 8,091.7	—	R 8,091.7
2012	—	(s)	11.2	R 2,572.5	3.7	151.8	136.2	5,456.3	81.7	R 8,413.4	R 8,413.4	—	R 8,413.4
2013	—	R 0.3	10.3	R 2,425.7	4.6	168.1	131.4	5,244.5	51.2	R 8,035.8	R 8,036.0	—	R 8,036.0
2014	—	R 0.9	8.9	R 2,423.9	3.6	128.4	136.3	5,197.8	10.3	R 7,909.1	R 7,910.0	—	R 7,910.0
2015	—	0.8	5.8	R 1,853.5	3.3	71.9	153.6	3,699.7	22.9	R 5,810.7	R 5,811.5	—	R 5,811.5
2016	—	R 0.9	4.7	R 1,630.4	2.7	57.9	145.1	3,381.0	19.7	R 5,241.6	R 5,242.5	—	R 5,242.5
2017	—	R 0.2	5.8	R 1,823.2	0.2	75.1	133.7	3,746.8	30.3	R 5,815.0	R 5,815.2	—	R 5,815.2
2018	—	0.5	8.4	R 2,252.0	4.4	R 90.6	135.6	4,014.6	12.9	R 6,518.5	R 6,519.0	—	R 6,519.0
2019	—	0.1	5.6	R 2,148.7	0.9	90.8	R 138.2	3,860.5	14.0	R 6,258.8	R 6,258.9	—	R 6,258.9
2020	—	0.1	5.9	R 1,703.1	3.8	60.2	R 129.4	2,949.0	7.3	R 4,858.6	R 4,858.7	—	R 4,858.7
2021	—	R 0.2	9.3	R 2,237.7	6.7	89.2	R 142.3	4,491.8	22.7	R 6,999.9	R 7,000.0	—	R 7,000.0
2022	—	R 0.2	12.0	R 3,535.1	0.1	R 188.6	R 180.5	5,729.6	39.8	R 9,685.8	R 9,686.0	—	R 9,686.0
2023	—	0.1	10.3	2,903.7	3.7	173.0	141.6	5,071.5	26.9	8,330.6	8,330.7	—	8,330.7

[a] Transportation use of natural gas as vehicle fuel only.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET7. Electric power sector price and expenditure estimates, selected years, 1970-2023, Mississippi

Year	Coal	Natural gas [a]	Petroleum: Distillate fuel oil	Petroleum: Petroleum coke	Petroleum: Residual fuel oil	Petroleum: Total	Nuclear fuel	Biomass: Wood and waste [b]	Electricity imports [c]	Total energy [d]
	Prices in dollars per million Btu									
1970	0.26	0.27	0.61	—	0.48	0.48	—	—	—	0.27
1975	0.82	0.83	2.08	—	1.69	1.70	—	—	—	1.24
1980	1.84	2.11	5.47	—	3.03	3.06	—	—	—	2.16
1985	2.54	2.80	5.97	—	4.16	4.78	1.13	—	—	2.30
1990	1.65	1.76	4.80	—	2.35	2.44	1.11	—	—	1.54
1995	1.53	1.71	3.79	—	1.87	3.48	0.52	—	—	1.32
2000	1.52	3.90	5.41	—	3.31	3.33	0.42	—	—	1.98
2005	2.25	9.12	8.75	—	6.40	6.48	0.40	—	—	4.17
2006	2.48	6.97	13.33	—	8.03	8.24	0.45	—	—	3.50
2007	2.94	7.21	14.43	—	7.61	8.22	0.48	—	—	4.18
2008	3.25	9.39	20.29	—	8.71	11.61	0.44	2.66	—	5.01
2009	3.37	4.29	12.73	—	9.51	11.56	0.62	—	—	3.05
2010	3.20	4.83	16.83	—	8.92	10.08	0.77	2.40	—	3.50
2011	3.87	4.28	21.76	—	13.27	17.07	0.78	2.44	—	3.37
2012	4.45	2.91	22.22	—	15.05	22.20	0.91	2.21	—	2.85
2013	3.95	3.88	21.57	—	—	21.57	1.01	2.26	—	3.17
2014	3.27	4.58	20.43	—	12.91	20.40	0.88	2.73	—	3.41
2015	3.06	2.85	12.71	—	8.20	12.71	0.81	2.62	—	2.41
2016	2.69	2.79	9.56	—	—	9.56	0.49	2.54	—	2.50
2017	2.66	3.14	12.17	—	—	12.17	1.03	2.40	—	2.76
2018	2.69	3.21	15.64	—	—	15.64	0.99	2.22	—	2.84
2019	2.94	2.73	14.35	—	—	14.35	0.80	2.33	—	2.34
2020	2.62	2.28	10.26	—	—	10.26	0.38	1.80	—	2.07
2021	2.56	3.90	15.81	—	—	15.81	0.53	2.39	—	2.99
2022	3.95	6.42	23.88	—	—	23.88	0.62	2.69	—	5.17
2023	3.96	2.75	20.99	—	—	20.99	0.65	2.93	—	2.41
	Expenditures in million dollars									
1970	3.1	27.3	(s)	—	1.2	1.3	—	—	—	31.7
1975	26.9	26.9	3.2	—	97.6	100.8	—	—	—	154.7
1980	135.5	204.2	2.2	—	96.7	98.9	—	—	—	438.6
1985	262.4	155.6	2.1	—	2.8	4.9	52.2	—	—	475.1
1990	161.5	118.9	1.4	—	17.4	18.8	87.1	—	—	386.3
1995	148.5	196.8	0.9	—	0.1	1.0	44.1	—	—	390.4
2000	218.9	403.6	1.7	—	94.4	96.0	47.1	—	—	765.6
2005	389.5	1,275.6	4.6	—	96.1	100.7	41.8	—	—	1,807.6
2006	461.7	1,007.4	2.2	—	32.8	35.0	49.0	—	—	1,553.0
2007	532.9	1,359.7	5.7	—	31.1	36.8	47.5	—	—	1,977.0
2008	565.3	1,609.9	4.7	—	6.0	10.7	43.0	(s)	—	2,228.8
2009	468.7	799.7	1.7	—	0.7	2.4	71.0	—	—	1,341.9
2010	465.8	1,145.6	2.1	—	6.5	8.6	77.7	(s)	—	1,697.7
2011	406.1	1,049.9	3.8	—	2.9	6.7	84.8	(s)	—	1,547.5
2012	355.4	854.5	3.3	—	(s)	3.3	69.9	0.1	—	1,283.3
2013	374.7	924.9	2.8	—	—	2.8	114.8	0.3	—	1,417.6
2014	372.3	1,112.9	3.6	—	(s)	3.6	94.1	0.4	—	1,583.2
2015	211.2	972.8	2.1	—	(s)	2.1	99.6	0.3	—	1,286.1
2016	164.4	1,058.2	1.8	—	—	1.8	30.5	0.3	—	1,255.1
2017	143.1	1,104.4	1.7	—	—	1.7	79.7	0.3	—	1,329.1
2018	161.3	1,213.0	4.2	—	—	4.2	72.0	0.3	—	1,450.8
2019	148.5	1,016.5	2.0	—	—	2.0	91.6	0.3	—	1,258.9
2020	136.2	918.6	0.7	—	—	0.7	25.6	0.2	—	1,081.2
2021	159.3	1,417.2	1.1	—	—	1.1	64.8	0.3	—	1,642.6
2022	253.4	2,497.5	1.7	—	—	1.7	55.8	0.3	—	2,808.6
2023	187.2	1,140.4	1.2	—	—	1.2	79.8	0.2	—	1,408.8

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[c] Electricity imported from Canada and Mexico.
[d] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET1. Primary energy, electricity, and total energy price and expenditure estimates, selected years, 1970-2023, Missouri

Year	Primary energy														Electric power sector [l,k,l]	Electricity [m]	Total energy [h,i,j]
	Coal			Natural gas [a]	Petroleum							Nuclear fuel	Biomass				
	Coking coal	Steam coal	Total		Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total		Wood and waste [g,h]	Total [h,i,j,k]			
	Prices in dollars per million Btu																
1970	0.38	0.29	0.29	0.64	1.05	1.74	0.75	2.73	0.56	1.52	1.99	—	1.85	1.17	0.26	6.17	1.85
1975	1.60	0.60	0.62	1.16	2.52	3.03	2.09	4.55	1.78	3.02	3.67	—	2.19	2.08	0.57	8.64	3.32
1980	1.81	1.21	1.22	2.95	6.61	6.33	6.47	9.33	3.33	7.00	8.11	—	2.98	4.32	1.25	13.91	7.19
1985	1.93	1.51	1.51	4.94	6.78	8.34	5.90	8.56	4.09	8.21	7.94	0.82	3.24	4.57	1.41	17.16	8.31
1990	—	1.35	1.35	4.69	7.38	9.06	5.68	8.61	2.54	7.23	8.00	0.74	3.26	4.56	1.27	18.94	8.95
1995	—	1.01	1.01	4.36	6.74	7.69	3.99	8.39	2.30	5.93	7.32	0.48	2.65	4.15	0.94	18.32	8.55
2000	—	0.93	0.93	6.65	9.67	11.05	6.50	11.43	3.51	8.12	10.48	0.41	3.47	5.51	1.01	17.63	11.01
2005	—	1.04	1.04	11.28	16.23	16.69	12.99	17.34	6.93	7.85	15.76	0.42	6.13	8.13	1.23	17.96	15.12
2006	—	1.14	1.14	12.11	18.18	18.40	15.01	19.46	8.01	9.73	17.79	0.42	6.70	8.95	1.24	18.47	16.67
2007	—	1.35	1.35	11.27	19.59	20.46	16.00	21.56	8.35	11.78	19.78	0.47	7.39	9.86	1.52	19.24	17.80
2008	—	1.54	1.54	11.66	26.00	23.77	24.63	24.88	10.62	14.19	24.15	0.47	9.08	11.42	1.71	20.04	20.36
2009	—	1.56	1.56	10.48	16.49	19.15	12.77	17.96	7.35	14.19	17.19	0.59	7.00	8.57	1.56	21.54	16.69
2010	—	1.61	1.61	9.64	20.25	20.11	16.27	21.53	11.46	R 15.74	R 20.53	0.67	8.10	9.64	1.67	22.81	18.73
2011	—	1.74	1.74	9.64	26.23	21.99	22.93	27.38	15.36	R 19.58	R 26.16	0.72	10.48	11.44	1.77	24.38	R 22.27
2012	—	1.89	1.89	8.71	26.84	17.99	22.97	27.95	16.63	R 18.98	R 26.53	0.92	11.21	11.55	1.84	24.99	R 22.61
2013	—	1.93	1.93	8.80	26.79	18.48	22.06	27.27	16.41	R 22.26	R 26.28	0.90	11.26	11.44	1.92	26.49	R 22.32
2014	—	2.02	2.02	8.92	25.92	22.66	20.59	26.07	15.69	R 21.94	R 25.43	0.88	R 10.55	R 11.37	2.03	26.71	R 21.73
2015	—	1.93	1.93	8.69	R 17.71	14.15	11.88	18.71	10.10	R 17.59	R 17.92	0.88	R 6.85	R 8.96	1.84	27.67	R 18.29
2016	—	1.89	1.89	R 7.34	15.01	12.56	9.72	16.64	7.11	R 21.71	R 15.93	0.89	R 5.68	R 8.23	1.82	28.56	R 17.23
2017	—	1.88	1.88	8.11	17.42	16.05	12.10	18.68	8.89	23.60	18.08	0.87	R 5.88	8.90	1.85	29.41	18.69
2018	—	1.81	1.81	7.43	20.87	17.56	15.64	20.71	10.93	23.66	20.51	0.85	R 6.88	9.72	1.81	29.10	19.58
2019	—	1.69	1.69	7.06	19.91	15.20	14.37	19.74	—	R 21.29	19.40	0.83	R 6.76	9.66	1.65	28.38	18.77
2020	—	1.58	1.58	6.71	16.02	13.36	9.10	16.20	8.24	18.98	15.97	0.84	R 4.39	8.20	1.55	28.24	R 16.93
2021	—	1.68	1.68	8.85	21.38	20.38	14.48	22.88	11.49	R 22.77	22.04	1.29	R 5.53	11.12	2.34	28.87	R 20.50
2022	—	1.95	1.95	11.36	R 32.91	23.34	25.89	30.13	18.42	R 33.98	R 30.58	0.70	R 8.67	R 14.99	2.66	30.06	R 26.10
2023	—	1.98	1.98	10.50	27.56	20.35	20.75	26.72	16.44	25.27	26.37	0.70	7.73	14.16	1.92	31.87	24.70
	Expenditures in million dollars																
1970	3.1	77.3	80.4	265.4	99.1	78.1	34.1	803.2	11.4	90.2	1,116.0	—	9.4	1,471.3	-76.3	542.4	1,937.4
1975	11.9	254.8	266.7	423.0	261.8	149.5	98.2	1,490.4	21.7	176.0	2,197.6	—	13.3	2,900.5	-234.0	974.3	3,640.8
1980	9.6	637.7	647.3	928.2	708.2	215.4	229.5	2,889.0	23.2	396.8	4,462.0	—	14.7	6,052.3	-639.6	2,022.4	7,435.1
1985	12.0	788.8	800.8	1,284.0	789.6	174.1	196.6	2,700.5	18.8	476.5	4,356.2	70.0	19.7	6,531.9	-810.4	2,712.0	8,433.5
1990	—	726.4	726.4	1,107.5	910.4	232.7	213.8	2,895.9	9.9	432.0	4,694.7	62.3	18.4	6,628.0	-752.7	3,484.6	9,359.9
1995	—	597.0	597.0	1,193.4	946.0	315.5	258.6	3,008.0	5.1	388.5	4,921.8	41.3	13.8	6,767.3	-629.1	3,891.5	10,029.7
2000	—	643.7	643.7	1,872.2	1,621.0	442.1	180.9	4,389.0	2.4	458.4	7,093.8	42.7	16.3	9,668.7	-809.9	4,370.1	13,228.9
2005	—	866.6	866.6	3,053.7	3,127.3	656.1	485.9	6,933.5	4.8	642.9	11,850.4	35.3	48.9	15,855.5	-1,136.4	4,959.8	19,679.0
2006	—	943.0	943.0	3,095.5	3,532.1	602.1	559.4	7,779.8	3.5	797.8	13,274.6	44.0	50.2	17,407.5	-1,165.4	5,169.7	21,411.9
2007	—	1,087.2	1,087.2	3,100.9	3,892.8	786.7	575.0	8,628.4	2.0	833.1	14,718.0	45.9	60.7	19,012.8	-1,387.0	5,614.3	23,240.1
2008	—	1,224.0	1,224.0	3,395.6	4,529.6	849.4	780.0	9,761.9	2.9	862.7	16,786.5	46.3	83.0	21,548.5	-1,559.8	5,768.5	25,757.2
2009	—	1,191.8	1,191.8	2,753.4	R 2,833.1	584.9	263.2	7,033.0	1.4	709.0	R 11,424.5	63.1	80.7	R 15,541.1	-1,379.5	5,872.0	R 20,033.6
2010	—	1,290.4	1,290.4	2,664.3	R 3,668.2	591.5	481.8	8,369.9	2.0	R 642.5	R 13,755.8	62.9	99.5	R 17,873.2	-1,528.5	6,698.6	R 23,043.3
2011	—	1,436.3	1,436.3	2,584.6	R 4,698.3	592.3	680.1	10,234.4	1.8	R 775.4	R 16,982.3	70.2	113.7	R 21,187.5	-1,675.4	7,008.5	R 26,520.6
2012	—	1,448.7	1,448.7	2,210.5	R 4,593.1	411.5	642.4	10,216.1	0.7	R 702.1	R 16,565.9	102.9	105.9	R 20,434.3	-1,675.9	7,029.5	R 25,787.8
2013	—	1,553.0	1,553.0	2,426.6	R 4,598.6	478.5	589.0	10,110.3	0.4	R 749.5	R 16,526.3	78.7	134.5	R 20,719.2	-1,745.6	7,538.1	R 26,511.7
2014	—	1,578.1	1,578.1	R 2,632.2	R 4,680.7	661.3	517.2	9,740.4	0.2	R 769.8	R 16,369.6	85.1	R 135.0	R 20,799.9	-1,804.2	7,644.4	R 26,640.2
2015	—	1,342.3	1,342.3	R 2,297.6	R 3,281.5	337.4	309.5	7,115.8	0.1	R 688.1	R 11,732.5	96.6	R 59.5	R 15,528.5	-1,518.1	7,695.6	R 21,706.0
2016	—	1,210.5	1,210.5	R 1,959.6	R 2,816.6	275.7	282.0	6,464.7	0.8	R 568.4	R 10,408.2	87.6	R 47.1	R 13,713.0	-1,416.1	7,660.5	R 19,957.3
2017	—	1,332.4	1,332.4	R 2,090.0	R 3,200.7	354.9	376.8	7,180.9	0.2	534.3	R 11,647.8	75.6	R 48.1	R 15,193.9	-1,529.2	7,672.2	R 21,336.9
2018	—	1,210.5	1,210.5	R 2,385.7	R 3,957.0	461.6	R 467.2	7,875.1	(s)	597.0	R 13,357.9	95.1	R 68.4	R 17,117.6	-1,495.7	8,148.1	R 23,770.1
2019	—	987.3	987.3	2,253.6	R 3,761.1	429.9	R 457.7	7,426.8	—	R 613.3	R 12,688.7	79.3	R 64.2	R 16,073.2	-1,212.2	7,636.1	22,497.1
2020	—	869.9	869.9	R 2,007.4	R 2,927.5	345.7	R 160.2	5,623.3	0.2	623.6	R 9,680.6	68.1	R 24.4	R 12,650.4	-1,062.7	7,296.7	R 18,884.4
2021	—	1,032.9	1,032.9	R 2,562.0	R 3,927.7	514.7	R 332.7	8,601.0	0.1	R 657.4	R 14,033.6	57.6	R 29.7	R 17,715.9	-1,634.1	7,660.8	R 23,742.5
2022	—	1,104.1	1,104.1	R 3,610.6	R 5,799.2	652.8	R 687.2	11,441.3	0.1	R 859.7	R 19,440.2	64.6	R 53.3	R 24,272.9	-1,921.9	8,237.3	R 30,588.2
2023	—	878.1	878.1	3,281.5	4,749.4	498.7	599.0	10,369.7	0.1	755.2	16,972.0	67.5	43.5	21,242.6	-1,173.9	8,370.2	28,438.9

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[l] Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
[m] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.
Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET2. Total end-use energy price and expenditure estimates, selected years, 1970-2023, Missouri

Year	Primary energy											Electricity [k]	Total energy [h,i,j]
			Petroleum							Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g,h]	Total [h,i,j]		
	Prices in dollars per million Btu												
1970	0.48	0.70	1.05	1.74	0.75	2.73	0.56	1.52	2.00	1.85	1.45	6.17	1.85
1975	1.25	1.21	2.53	3.03	2.09	4.55	1.79	3.03	3.69	2.19	2.71	8.64	3.32
1980	1.61	2.98	6.63	6.33	6.47	9.33	3.33	7.06	8.13	2.98	6.09	13.91	7.19
1985	1.62	4.95	6.79	8.34	5.90	8.56	4.10	8.21	7.95	3.24	6.68	17.16	8.31
1990	1.32	4.74	7.40	9.06	5.68	8.61	2.54	7.23	8.01	3.26	6.81	18.94	8.95
1995	1.41	4.49	6.77	7.69	3.99	8.39	2.32	6.52	7.39	2.75	6.39	18.32	8.55
2000	1.37	6.93	9.73	11.05	6.50	11.43	3.51	8.12	10.50	4.01	9.29	17.63	11.01
2005	1.81	11.69	16.26	16.69	12.99	17.34	6.93	7.91	15.78	6.13	14.36	17.96	15.12
2006	2.00	12.91	18.20	18.40	15.01	19.46	8.01	9.73	17.79	6.82	16.17	18.47	16.67
2007	2.11	12.01	19.60	20.46	16.00	21.56	8.35	11.78	19.78	7.56	17.39	19.24	17.80
2008	2.83	12.37	26.02	23.77	24.63	24.88	10.62	14.19	24.16	9.35	20.45	20.04	20.36
2009	2.84	11.23	16.50	19.15	12.77	17.96	7.35	14.29	17.20	7.31	15.26	21.54	16.69
2010	2.91	10.42	20.28	20.11	16.27	21.53	11.46	R 15.78	20.54	8.47	17.45	22.81	18.73
2011	2.74	10.42	26.25	21.99	22.93	27.38	15.36	R 19.58	26.16	11.03	21.59	24.38	R 22.27
2012	2.95	10.05	26.85	17.99	22.97	27.95	16.63	R 18.98	R 26.53	12.13	R 21.83	24.99	R 22.61
2013	2.74	9.50	26.81	18.48	22.06	27.27	16.41	R 22.26	R 26.29	11.91	R 21.01	26.49	R 22.32
2014	2.77	9.43	25.95	22.66	20.59	26.07	15.69	R 21.94	R 25.44	11.26	R 20.21	26.71	R 21.73
2015	2.82	9.65	17.74	14.15	11.88	18.71	10.10	R 17.59	R 17.93	R 7.59	R 15.42	27.67	R 18.29
2016	2.68	R 8.48	15.03	12.56	9.72	16.64	7.11	R 21.71	R 15.93	R 6.30	R 13.82	28.56	R 17.23
2017	2.21	9.24	17.43	16.05	12.10	18.68	8.89	23.60	18.09	R 6.75	15.52	29.41	18.69
2018	2.22	8.48	20.89	17.56	15.64	20.71	10.93	23.66	20.52	R 7.62	16.72	29.10	19.58
2019	2.41	8.34	19.95	15.20	14.37	19.74	—	R 21.29	19.41	R 7.53	15.99	28.38	18.77
2020	2.24	8.08	16.06	13.36	9.10	16.20	8.24	18.98	15.98	R 5.38	R 13.52	28.24	R 16.93
2021	2.15	R 8.64	21.47	20.38	14.48	22.88	11.49	R 22.77	22.07	R 6.54	R 18.01	28.87	R 20.50
2022	2.80	R 11.94	32.99	23.34	25.89	30.13	18.42	R 33.98	30.59	R 9.77	R 24.90	30.06	R 26.10
2023	3.66	13.48	27.62	20.35	20.75	26.72	16.44	25.27	26.38	8.84	22.58	31.87	24.70
	Expenditures in million dollars												
1970	21.9	248.7	98.5	78.1	34.1	803.2	10.9	90.2	1,114.9	9.4	1,395.0	542.4	1,937.4
1975	61.2	407.9	252.4	149.5	98.2	1,490.4	17.6	175.9	2,184.1	13.3	2,666.5	974.3	3,640.8
1980	60.9	895.0	689.3	215.4	229.5	2,889.0	22.6	396.4	4,442.1	14.7	5,412.7	2,022.4	7,435.1
1985	72.4	1,279.2	782.8	174.1	196.6	2,700.5	18.4	476.5	4,349.0	19.7	5,721.4	2,712.0	8,433.5
1990	48.4	1,101.3	904.2	232.7	213.8	2,895.9	9.8	432.0	4,688.4	18.4	5,875.3	3,484.6	9,359.9
1995	42.6	1,171.6	939.6	315.5	258.6	3,008.0	5.0	383.6	4,910.3	13.6	6,138.2	3,891.5	10,029.7
2000	35.0	1,736.5	1,598.7	442.1	180.9	4,389.0	2.4	458.4	7,071.4	15.8	8,858.8	4,370.1	13,228.9
2005	52.4	2,785.2	3,109.9	656.1	485.9	6,933.5	4.8	642.6	11,832.7	48.9	14,719.1	4,959.8	19,679.0
2006	58.6	2,870.4	3,520.4	602.1	559.4	7,779.8	3.5	797.8	13,262.9	50.2	16,242.1	5,169.7	21,411.9
2007	61.1	2,799.8	3,879.0	786.7	575.0	8,628.4	2.0	833.1	14,704.3	60.7	17,625.8	5,614.3	23,240.1
2008	76.0	3,060.8	4,512.5	849.4	780.0	9,761.9	2.9	862.7	16,769.5	82.4	19,988.7	5,768.5	25,757.2
2009	60.2	2,610.3	R 2,821.6	584.9	263.2	7,033.0	1.4	708.3	R 11,412.3	78.8	R 14,161.6	5,872.0	R 20,033.6
2010	61.1	2,451.6	R 3,646.0	591.5	481.8	8,369.9	2.0	R 642.3	R 13,733.5	98.6	R 16,344.7	6,698.6	R 23,043.3
2011	41.7	2,393.5	R 4,679.9	592.3	680.1	10,234.4	1.8	R 775.4	R 16,963.9	113.0	R 19,512.1	7,008.5	R 26,520.6
2012	73.3	2,031.0	R 4,575.5	411.5	642.4	10,216.1	0.7	R 702.1	R 16,548.2	105.8	R 18,758.3	7,029.5	R 25,787.8
2013	72.4	2,256.8	R 4,583.1	478.5	589.0	10,110.3	0.4	R 749.5	R 16,510.9	133.6	R 18,973.6	7,538.1	R 26,511.7
2014	73.1	R 2,441.9	R 4,657.9	661.3	517.2	9,740.4	0.2	R 769.8	R 16,346.8	R 134.0	R 18,995.8	7,644.4	R 26,640.2
2015	64.0	R 2,167.3	R 3,269.8	337.4	309.5	7,115.8	0.1	R 688.1	R 11,720.7	R 58.4	R 14,010.4	7,695.6	R 21,706.0
2016	46.3	R 1,806.1	R 2,806.9	275.7	282.0	6,464.7	0.8	R 568.4	R 10,398.5	R 46.0	R 12,296.8	7,660.5	R 19,957.3
2017	46.2	R 1,932.5	R 3,191.0	354.9	376.8	7,180.9	0.2	534.3	R 11,638.1	R 48.0	R 13,664.7	7,672.2	R 21,336.9
2018	42.4	R 2,171.3	R 3,939.0	461.6	R 467.2	7,875.1	(s)	597.0	R 13,339.8	R 68.4	R 15,622.0	8,148.1	R 23,770.1
2019	44.7	R 2,081.0	R 3,743.3	429.9	R 457.7	7,426.8	—	R 613.3	R 12,671.0	R 64.2	R 14,861.0	7,636.1	22,497.1
2020	41.0	R 1,851.4	R 2,917.8	345.7	R 160.2	5,623.3	0.2	623.6	R 9,670.9	R 24.4	R 11,587.7	7,296.7	R 18,884.4
2021	45.6	R 2,016.1	R 3,884.4	514.7	R 332.7	8,601.0	0.1	R 657.4	R 13,990.3	R 29.7	R 16,081.7	7,660.8	R 23,742.5
2022	53.7	R 2,860.8	R 5,742.2	652.8	R 687.2	11,441.3	0.1	R 859.7	R 19,383.2	R 53.3	R 22,351.0	8,237.3	R 30,588.2
2023	62.2	3,032.2	4,708.1	498.7	599.0	10,369.7	0.1	755.2	16,930.7	43.5	20,068.7	8,370.2	28,438.9

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. · Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2023, Missouri

Year	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
	Prices in dollars per million Btu									
1970	0.86	0.96	1.19	1.92	1.43	1.78	0.61	1.12	7.86	2.07
1975	1.72	1.48	2.62	3.26	2.88	3.14	1.20	1.83	10.06	3.37
1980	1.70	3.23	6.85	7.06	7.95	7.01	3.06	3.78	15.21	6.83
1985	1.73	5.40	6.70	7.53	10.06	7.38	3.46	5.56	19.27	9.56
1990	1.56	5.15	7.27	9.61	11.50	9.31	3.56	5.60	21.56	11.10
1995	0.95	5.13	5.34	7.56	4.93	7.30	2.90	5.39	21.26	11.10
2000	1.02	7.73	8.97	10.75	9.11	10.59	4.41	8.11	20.65	13.27
2005	2.23	12.42	15.05	15.99	15.23	15.92	6.91	12.65	20.75	16.43
2006	1.55	13.96	17.24	17.70	19.36	17.71	7.96	14.18	21.80	17.92
2007	2.53	13.16	19.32	19.45	21.95	19.49	8.79	13.85	22.54	18.09
2008	—	13.28	23.66	23.28	23.08	23.29	10.83	14.79	23.45	18.73
2009	—	12.54	16.00	18.84	23.30	18.81	8.13	13.20	25.04	18.69
2010	—	11.60	19.31	20.37	24.75	20.39	9.60	12.71	26.60	19.42
2011	—	11.92	26.90	21.50	28.01	21.63	11.54	13.17	28.56	20.68
2012	—	12.15	26.81	19.19	29.38	19.37	12.85	13.10	29.80	21.95
2013	—	10.73	27.81	19.07	30.03	19.24	12.58	11.85	31.08	21.00
2014	—	10.69	26.88	24.58	32.32	24.63	12.27	12.47	31.18	21.06
2015	—	11.50	17.60	16.37	16.69	16.39	8.45	11.96	32.84	22.36
2016	—	10.69	15.23	14.01	13.30	14.02	7.22	10.97	32.85	22.34
2017	—	11.71	17.35	17.97	16.64	17.97	8.08	12.29	34.09	23.62
2018	—	10.15	18.92	18.89	25.63	18.90	8.94	11.14	33.24	21.71
2019	—	10.19	18.22	16.78	22.44	16.79	8.60	11.06	32.65	21.14
2020	—	10.17	15.79	15.18	14.58	15.18	7.11	R 10.75	32.89	R 21.79
2021	—	10.65	20.03	22.57	23.02	22.53	R 8.53	R 11.97	33.46	R 22.80
2022	—	13.99	29.49	25.24	39.98	25.31	R 13.20	R 15.72	34.42	R 25.00
2023	—	16.82	26.99	22.35	35.71	22.43	12.07	17.61	36.86	27.42
	Expenditures in million dollars									
1970	1.0	150.9	9.1	61.9	0.6	71.5	1.4	224.8	259.5	484.3
1975	1.7	232.0	21.9	112.1	0.5	134.5	2.8	371.0	468.8	839.8
1980	0.6	471.2	49.7	127.0	2.6	179.3	9.2	660.5	967.9	1,628.4
1985	1.4	703.3	33.1	94.9	5.4	133.3	13.2	851.3	1,215.3	2,066.6
1990	1.9	603.9	17.4	145.3	1.9	164.6	15.1	785.5	1,592.7	2,378.2
1995	0.6	645.9	13.6	159.1	0.9	173.6	10.7	830.9	1,842.9	2,673.8
2000	0.4	906.4	16.1	232.0	3.6	251.6	13.1	1,171.5	2,083.9	3,255.4
2005	0.9	1,353.9	14.1	280.1	6.8	301.1	40.3	1,696.2	2,436.9	4,133.0
2006	0.7	1,359.4	15.1	273.4	7.3	295.8	41.2	1,697.1	2,519.5	4,216.6
2007	1.1	1,363.5	16.0	341.3	6.7	364.0	50.3	1,778.9	2,758.4	4,537.4
2008	—	1,523.4	14.0	528.1	2.9	545.0	69.4	2,137.8	2,831.6	4,969.3
2009	—	1,340.5	7.0	367.6	3.3	377.9	67.1	1,785.5	2,924.1	4,709.6
2010	—	1,252.2	7.1	380.4	4.4	391.9	85.0	1,729.0	3,385.6	5,114.6
2011	—	1,232.6	8.6	355.0	2.1	365.6	99.1	1,697.2	3,502.9	5,200.1
2012	—	1,018.0	7.2	244.2	0.7	252.1	92.2	1,362.4	3,491.8	4,854.2
2013	—	1,158.1	7.1	288.0	0.8	295.9	117.8	1,571.8	3,745.0	5,316.8
2014	—	1,251.0	6.4	419.1	1.4	426.9	116.2	R 1,794.2	3,807.8	5,601.9
2015	—	1,107.8	2.7	234.3	0.6	237.6	48.4	1,393.8	3,800.0	5,193.8
2016	—	954.7	1.7	194.8	0.8	197.4	35.9	R 1,188.0	3,850.7	5,038.7
2017	—	1,023.3	1.6	217.7	0.4	219.7	36.9	R 1,279.9	3,844.0	5,123.8
2018	—	1,181.5	2.4	312.0	0.7	315.2	R 56.1	R 1,552.8	4,248.6	R 5,801.4
2019	—	1,151.5	1.4	330.7	0.9	332.9	R 53.4	R 1,537.7	3,975.6	R 5,513.3
2020	—	1,038.8	0.8	232.7	0.5	234.1	R 17.2	R 1,290.1	3,922.6	R 5,212.6
2021	—	1,102.9	3.8	304.8	0.8	R 309.5	R 21.3	R 1,433.7	4,071.5	R 5,505.2
2022	—	1,481.0	6.0	496.1	1.3	503.5	R 41.6	R 2,026.0	4,373.9	R 6,399.9
2023	—	1,579.3	4.9	406.8	1.9	413.7	32.3	2,025.2	4,397.8	6,423.1

[a] Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2023, Missouri

Year	Primary energy										Electricity [j]	Total energy [g,h,i]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f,g]	Total [g,h,i]		
	Prices in dollars per million Btu											
1970	0.49	0.62	1.03	1.25	0.82	2.73	0.57	0.95	0.61	0.70	7.00	1.66
1975	1.17	1.14	2.45	2.41	2.40	4.55	1.77	2.36	1.20	1.38	9.46	2.86
1980	1.58	2.88	6.49	5.19	6.10	9.33	3.47	5.65	3.06	3.33	14.33	6.83
1985	1.57	4.88	6.04	8.91	10.06	8.56	4.11	6.87	3.46	5.12	17.94	10.22
1990	1.31	4.48	5.46	7.69	11.50	8.61	2.60	6.48	3.56	4.57	18.98	11.22
1995	1.42	4.36	4.27	7.65	4.93	8.39	2.36	5.84	2.89	4.43	18.20	11.05
2000	1.37	6.82	7.00	10.87	9.11	11.43	3.50	8.96	4.26	6.93	17.10	12.33
2005	1.80	11.39	13.62	16.05	15.23	17.34	7.11	15.24	6.91	11.16	17.36	14.72
2006	2.01	12.68	15.74	17.81	19.36	19.46	8.26	17.09	7.96	12.38	17.81	15.59
2007	2.11	11.59	17.29	19.24	21.95	21.56	8.45	18.66	8.79	11.66	18.58	15.79
2008	3.61	11.94	23.63	22.91	23.08	24.88	10.62	23.18	10.83	12.86	19.37	16.56
2009	3.89	10.75	13.90	18.33	23.30	17.96	7.85	16.51	8.13	11.02	20.41	16.50
2010	3.72	10.23	17.62	19.28	24.75	21.53	11.46	18.66	9.60	10.71	21.99	17.41
2011	3.33	9.91	23.93	22.55	28.01	27.38	—	23.37	11.54	10.84	23.58	18.37
2012	3.67	9.46	24.48	16.60	29.38	27.95	16.63	21.04	12.85	10.62	24.03	18.85
2013	3.40	8.87	24.12	17.68	30.03	27.27	—	21.14	11.09	10.07	25.80	19.10
2014	3.41	8.84	22.49	19.86	32.32	26.07	—	21.35	R 8.48	10.06	26.08	18.78
2015	3.55	9.06	13.30	11.11	16.69	18.71	—	15.06	R 5.86	R 10.07	26.85	R 19.53
2016	3.49	7.71	11.13	10.34	13.30	16.64	—	13.45	R 4.80	8.68	27.14	19.37
2017	3.06	8.39	13.52	14.17	16.64	18.68	—	16.01	R 4.80	9.76	27.76	R 20.12
2018	3.11	7.79	16.88	15.57	25.63	20.71	—	18.07	R 5.13	9.60	27.55	19.33
2019	3.31	7.51	15.43	11.87	22.44	19.74	—	16.40	R 5.27	8.98	26.59	R 18.56
2020	3.24	7.19	10.43	11.06	14.58	16.20	—	13.20	R 3.66	R 8.31	26.18	R 18.07
2021	3.01	7.61	16.60	18.10	23.02	22.88	—	19.63	R 4.66	R 10.16	26.87	R 19.21
2022	3.51	11.02	27.94	19.20	39.98	30.13	—	26.58	R 6.20	13.76	28.00	R 21.52
2023	4.15	12.91	21.27	14.91	35.71	26.72	—	22.57	6.11	14.50	29.72	23.00
	Expenditures in million dollars											
1970	0.4	54.9	6.5	10.2	2.0	2.2	6.0	26.8	(s)	82.2	147.3	229.5
1975	2.7	104.7	16.9	20.9	2.4	3.8	8.5	52.6	0.1	160.1	246.5	406.6
1980	2.2	222.7	37.9	23.6	5.9	10.9	12.1	90.4	0.2	315.6	634.8	950.4
1985	4.3	299.5	53.5	28.4	1.9	11.8	3.1	98.8	0.3	402.9	930.8	1,333.7
1990	6.5	268.9	32.6	29.4	0.5	10.8	1.0	74.4	1.6	351.5	1,252.0	1,603.5
1995	5.9	285.7	29.6	40.8	0.3	4.3	(s)	75.0	1.5	368.0	1,398.3	1,766.4
2000	4.7	433.7	45.5	59.4	1.1	15.6	0.7	122.4	2.2	563.0	1,573.2	2,136.2
2005	8.3	701.5	41.2	52.0	2.6	26.1	0.8	122.6	6.5	838.9	1,755.8	2,594.6
2006	9.2	734.0	39.7	74.5	1.9	5.8	0.5	122.3	6.9	872.4	1,810.9	2,683.3
2007	8.6	700.0	36.8	76.6	1.1	6.4	0.3	121.3	8.1	838.0	1,972.8	2,810.8
2008	16.2	781.2	74.1	150.8	0.4	7.4	0.1	232.8	10.6	1,040.8	2,057.0	3,097.8
2009	13.3	664.1	46.6	81.7	0.8	5.3	(s)	134.5	9.5	821.3	2,130.8	2,952.1
2010	13.3	629.1	53.3	70.0	1.0	6.2	0.3	130.9	11.0	784.3	2,358.0	3,142.4
2011	9.3	622.4	62.8	74.7	0.5	7.9	—	145.9	12.8	790.4	2,490.9	3,281.3
2012	7.5	522.2	90.1	55.2	0.4	8.1	(s)	153.8	12.5	696.0	2,499.4	3,195.4
2013	7.7	580.7	R 96.7	70.9	0.3	8.2	—	R 175.9	14.7	R 779.1	2,686.7	R 3,465.7
2014	7.3	653.4	R 103.6	90.9	0.6	7.4	—	R 202.5	R 16.5	R 879.7	2,728.7	R 3,608.4
2015	5.4	561.1	R 73.2	40.3	0.2	123.0	—	R 236.7	R 8.9	R 812.0	2,797.5	R 3,609.6
2016	4.4	449.5	R 54.7	32.7	0.2	110.9	—	R 198.5	R 9.0	R 661.3	2,845.7	R 3,507.1
2017	1.7	488.7	R 58.8	55.5	0.1	126.3	—	R 240.7	R 10.1	R 741.3	2,858.2	R 3,599.5
2018	0.9	552.3	R 77.3	79.3	0.4	141.5	—	R 298.5	R 11.0	R 862.7	2,931.3	R 3,793.9
2019	0.7	521.0	R 56.4	51.2	0.3	135.6	—	R 243.5	R 9.4	R 774.7	2,733.9	R 3,508.5
2020	0.5	444.1	R 32.2	63.1	0.2	112.1	—	207.6	R 5.8	R 658.0	2,495.1	R 3,153.1
2021	0.8	485.3	64.0	132.4	0.3	160.7	—	357.3	R 7.1	R 850.5	2,657.6	R 3,508.1
2022	1.0	742.2	R 114.3	81.3	0.5	217.3	—	R 413.4	R 9.8	R 1,166.3	2,845.8	R 4,012.1
2023	0.2	814.1	77.7	48.3	0.7	189.1	—	315.8	9.2	1,139.3	2,958.2	4,097.6

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[g] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[j] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: Expenditure totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2023, Missouri

Year	Primary energy												Electricity [i]	Total energy [f,g,h]
	Coal			Natural gas [a]	Petroleum						Biomass	Total [f,g,h]		
	Coking coal	Steam coal	Total		Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e,f]			
	Prices in dollars per million Btu													
1970	0.38	0.49	0.47	0.40	0.77	1.31	2.73	0.53	1.23	1.24	2.84	0.79	4.01	1.15
1975	1.60	1.17	1.24	0.80	2.25	2.62	4.55	1.82	2.61	2.72	2.84	1.76	6.46	2.41
1980	1.81	1.58	1.61	2.61	5.83	5.65	9.33	3.09	6.19	6.26	2.84	4.14	11.21	5.19
1985	1.93	1.57	1.62	4.14	6.30	10.01	8.56	4.11	7.17	7.04	2.84	4.90	13.14	6.37
1990	—	1.31	1.31	4.14	5.82	8.57	8.61	2.60	5.73	5.95	1.77	4.54	14.50	6.56
1995	—	1.42	1.42	3.46	4.84	7.78	8.39	2.36	4.91	5.59	1.91	4.24	13.29	6.09
2000	—	1.37	1.37	5.69	7.91	11.56	11.43	3.50	6.28	7.69	1.15	6.14	12.98	7.73
2005	—	1.80	1.80	10.78	14.28	17.38	17.34	7.11	5.89	10.29	1.73	9.50	13.31	10.26
2006	—	2.01	2.01	11.59	16.32	19.27	19.46	8.26	7.38	11.66	1.59	10.53	13.41	11.16
2007	—	2.11	2.11	10.63	18.37	21.68	21.56	8.45	8.87	13.89	1.65	11.44	13.96	12.01
2008	—	2.67	2.67	11.25	24.58	25.91	24.88	10.62	10.63	16.49	1.73	12.82	14.43	13.22
2009	—	2.64	2.64	9.50	14.65	20.08	17.96	7.85	10.30	12.78	1.59	10.29	15.89	11.64
2010	—	2.74	2.74	8.65	18.54	19.69	21.53	11.46	R 11.21	R 15.19	1.58	R 10.94	16.13	R 12.36
2011	—	2.61	2.61	8.47	25.07	22.73	27.38	15.36	R 14.48	R 19.55	2.16	R 13.21	17.14	R 14.34
2012	—	2.88	2.88	7.79	25.27	16.30	27.95	16.63	R 13.78	R 18.50	2.06	R 11.60	17.27	R 13.21
2013	—	2.68	2.68	8.08	24.68	17.48	27.27	16.41	R 16.95	R 20.22	2.07	R 12.12	18.45	R 13.93
2014	—	2.71	2.71	7.89	23.03	19.83	26.07	15.69	R 16.62	R 19.64	2.55	R 11.89	18.63	R 13.74
2015	—	2.77	2.77	7.51	14.78	10.39	18.71	10.10	R 12.23	R 13.45	2.53	R 9.52	18.86	R 12.02
2016	—	2.62	2.62	6.15	11.90	9.55	16.64	7.20	R 14.70	R 13.09	2.31	R 8.71	20.87	R 11.68
2017	—	2.19	2.19	6.60	14.38	13.40	18.68	9.63	16.22	15.23	2.21	9.46	21.48	12.36
2018	—	2.21	2.21	6.37	17.46	14.78	20.71	10.93	16.77	17.28	2.40	10.30	21.15	12.85
2019	—	2.40	2.40	6.07	16.45	11.07	19.74	—	R 15.00	15.72	2.60	9.54	20.83	12.19
2020	—	2.23	2.23	5.65	12.12	10.25	16.20	8.24	R 13.82	R 13.02	2.59	8.53	20.05	11.11
2021	—	2.14	2.14	6.49	17.13	17.22	22.88	12.32	R 16.31	R 17.24	2.51	R 10.34	20.83	12.76
2022	—	2.79	2.79	9.61	28.02	18.26	30.13	19.69	R 25.58	R 26.64	R 2.70	R 15.59	22.46	R 17.23
2023	—	3.66	3.66	9.40	23.08	13.94	26.72	17.68	18.92	21.13	2.72	13.65	23.14	15.82
	Expenditures in million dollars													
1970	3.1	17.3	20.4	42.9	25.4	5.6	39.7	4.4	63.0	138.1	8.1	209.4	135.6	345.0
1975	11.9	44.9	56.8	71.3	75.7	15.8	64.7	7.5	133.9	297.6	10.4	436.0	259.0	695.0
1980	9.6	48.4	58.0	201.1	162.3	63.4	91.4	7.5	299.3	623.8	5.3	888.2	419.6	1,307.9
1985	12.0	54.7	66.7	276.4	152.1	45.6	48.4	14.4	368.9	629.3	6.2	978.6	565.9	1,544.5
1990	—	39.9	39.9	228.5	118.5	53.9	30.0	8.5	304.3	515.2	1.7	785.4	639.9	1,425.3
1995	—	36.2	36.2	239.9	84.9	110.4	73.2	4.7	257.7	531.0	1.4	808.4	649.4	1,457.7
2000	—	29.9	29.9	395.9	167.5	146.8	53.6	1.6	311.4	680.9	0.5	1,107.2	712.0	1,819.3
2005	—	43.2	43.2	729.2	439.8	314.9	193.1	3.5	440.2	1,391.5	2.1	2,165.9	766.3	2,932.2
2006	—	48.7	48.7	776.4	491.2	240.1	226.7	2.7	561.5	1,522.2	2.1	2,349.3	838.3	3,187.6
2007	—	51.4	51.4	735.7	616.6	353.7	134.6	1.6	574.0	1,680.4	2.3	2,469.8	881.9	3,351.6
2008	—	59.8	59.8	755.7	715.6	141.7	118.3	2.8	589.8	1,568.1	2.5	2,386.1	878.6	3,264.6
2009	—	46.8	46.8	605.8	347.6	111.0	94.7	1.2	461.1	1,015.6	2.2	1,670.4	815.8	2,486.2
2010	—	47.7	47.7	570.3	450.0	136.7	109.8	1.7	R 406.6	R 1,104.7	2.6	R 1,725.4	953.7	R 2,679.0
2011	—	32.4	32.4	538.5	545.1	157.5	134.2	1.8	R 514.7	R 1,353.4	1.2	R 1,925.5	1,013.2	R 2,938.7
2012	—	65.7	65.7	490.8	543.5	108.7	78.5	0.6	R 460.0	R 1,191.4	1.2	R 1,749.1	1,036.8	R 2,785.9
2013	—	64.6	64.6	517.7	527.9	114.9	79.2	0.4	R 507.7	R 1,230.0	1.1	R 1,813.5	1,104.7	R 2,918.2
2014	—	65.8	65.8	536.9	546.6	145.6	52.2	0.2	R 519.5	R 1,264.2	1.2	R 1,868.1	1,106.2	R 2,974.3
2015	—	58.6	58.6	497.9	382.1	58.4	89.5	0.1	R 428.2	R 958.2	1.2	R 1,515.9	1,096.4	R 2,612.3
2016	—	41.9	41.9	400.2	350.9	43.8	77.4	0.8	R 326.5	R 799.4	1.1	R 1,242.6	962.3	R 2,204.9
2017	—	44.4	44.4	419.4	399.9	80.9	87.5	0.2	308.6	877.0	1.0	1,341.7	968.1	2,309.8
2018	—	41.6	41.6	434.5	523.1	65.2	99.1	(s)	365.0	1,052.6	1.3	1,530.0	966.2	2,496.2
2019	—	44.1	44.1	405.8	413.9	45.2	93.7	—	R 381.7	R 934.5	1.4	R 1,385.8	924.8	R 2,310.6
2020	—	40.6	40.6	367.2	345.5	48.9	78.0	0.2	R 411.2	R 883.9	1.3	R 1,293.0	877.4	R 2,170.4
2021	—	44.8	44.8	426.2	469.7	73.7	109.4	0.1	R 418.4	R 1,071.2	1.3	R 1,543.5	929.9	R 2,473.4
2022	—	52.7	52.7	636.4	776.8	71.1	150.6	0.1	R 561.7	R 1,560.4	R 2.0	R 2,251.6	1,015.3	R 3,266.8
2023	—	62.0	62.0	637.7	624.4	39.9	136.0	0.1	516.6	1,317.0	2.0	2,018.8	1,011.8	3,030.6

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[i] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET6. Transportation sector energy price and expenditure estimates, selected years, 1970-2023, Missouri

Year	Primary energy											Electricity [g]	Total energy [f]
			Petroleum										
	Coal	Natural gas[a]	Aviation gasoline	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Lubricants	Motor gasoline [e]	Residual fuel oil	Total	Total [f]		
	Prices in dollars per million Btu												
1970	0.49	—	2.17	1.24	1.25	0.75	5.08	2.73	0.55	2.32	2.32	—	2.32
1975	1.17	—	3.45	2.72	2.41	2.09	7.48	4.55	1.73	4.07	4.07	—	4.07
1980	—	—	9.02	6.97	5.19	6.47	14.36	9.33	3.38	8.76	8.76	—	8.76
1985	—	—	9.99	7.04	9.75	5.90	18.18	8.56	3.88	8.20	8.20	—	8.20
1990	—	—	9.32	7.87	9.11	5.68	20.61	8.61	1.65	8.38	8.38	—	8.38
1995	—	2.72	8.36	7.26	12.14	3.99	21.75	8.39	1.73	7.76	7.76	15.99	7.76
2000	—	4.74	10.87	10.16	15.58	6.50	23.20	11.43	3.56	10.99	10.99	14.89	10.99
2005	—	7.87	18.56	16.70	21.01	12.99	35.22	17.34	5.64	17.05	17.05	13.99	17.05
2006	—	9.73	22.31	18.60	22.65	15.01	43.88	19.46	6.34	19.15	19.15	16.84	19.15
2007	—	8.28	23.70	19.88	24.84	16.00	47.16	21.56	7.14	20.99	20.99	18.06	20.99
2008	—	8.61	27.23	26.39	28.79	24.63	55.12	24.88	—	25.50	25.50	15.82	25.50
2009	—	7.82	20.32	16.87	23.62	12.77	56.07	17.96	4.91	17.79	17.79	17.08	17.79
2010	—	6.31	25.19	20.62	25.94	16.27	58.80	21.53	—	21.26	21.26	17.98	21.26
2011	—	6.06	31.64	26.46	29.17	22.93	69.54	27.38	—	27.16	27.16	20.24	27.16
2012	—	5.59	33.04	27.15	22.00	22.97	72.11	27.95	—	27.74	27.74	20.42	27.74
2013	—	R 5.49	32.71	27.20	23.31	22.06	69.42	27.27	—	27.25	27.25	22.90	27.25
2014	—	R 6.12	33.16	26.52	25.93	20.59	69.44	26.07	—	26.21	26.21	22.90	26.21
2015	—	R 6.16	24.86	18.40	15.39	11.88	67.28	18.71	—	18.63	18.63	24.50	18.63
2016	—	R 6.34	21.62	15.76	14.46	9.72	65.78	16.64	3.30	16.36	16.35	24.36	16.35
2017	—	R 6.98	24.13	18.11	18.71	12.10	67.25	18.68	4.67	18.44	18.44	24.69	18.44
2018	—	R 7.31	27.04	21.68	19.33	15.64	72.37	20.71	—	21.00	20.98	24.97	20.99
2019	—	R 7.12	25.57	20.60	15.80	14.37	74.92	19.74	—	19.97	19.97	23.12	19.97
2020	—	R 7.29	22.34	16.92	14.76	9.10	75.34	16.20	—	16.49	16.48	22.96	16.48
2021	—	R 7.64	28.86	22.39	23.64	14.48	81.25	22.88	6.06	22.69	22.69	24.13	22.69
2022	—	R 7.71	36.02	34.12	22.88	25.89	97.37	30.13	10.10	31.33	31.33	26.29	31.33
2023	—	9.33	32.62	28.67	18.04	20.75	105.48	26.72	8.33	27.21	27.20	28.63	27.20
	Expenditures in million dollars												
1970	(s)	—	2.0	57.5	0.4	34.1	22.7	761.4	0.6	878.5	878.6	—	878.6
1975	(s)	—	3.2	137.9	0.7	98.2	36.0	1,421.9	1.5	1,699.4	1,699.4	—	1,699.4
1980	—	—	7.4	439.5	1.3	229.5	81.2	2,786.6	3.0	3,548.5	3,548.5	—	3,548.5
1985	—	—	6.8	544.1	5.2	196.6	93.5	2,640.4	0.9	3,487.6	3,488.6	—	3,488.6
1990	—	—	5.9	735.6	4.1	213.8	119.3	2,855.1	0.3	3,934.2	3,952.8	—	3,952.8
1995	—	0.1	4.6	811.5	5.2	258.6	120.1	2,930.5	0.2	4,130.8	4,130.9	0.9	4,131.8
2000	—	0.5	5.4	1,369.6	3.9	180.9	136.9	4,319.8	0.1	6,016.6	6,017.0	1.0	6,018.0
2005	—	0.6	17.6	2,614.8	9.2	485.9	175.3	6,714.3	0.5	10,017.5	10,018.1	0.9	10,019.1
2006	—	0.7	14.4	2,974.4	14.0	559.4	212.8	7,547.2	0.4	11,322.6	11,323.3	1.1	11,324.3
2007	—	0.6	15.1	3,209.6	15.2	575.0	236.1	8,487.4	0.1	12,538.5	12,539.1	1.2	12,540.3
2008	—	0.5	13.3	3,708.9	28.8	780.0	256.3	9,636.3	—	14,423.5	14,424.1	1.3	14,425.4
2009	—	(s)	8.7	R 2,420.3	24.6	263.2	234.4	6,933.0	0.2	R 9,884.4	R 9,884.4	1.2	R 9,885.6
2010	—	(s)	13.0	R 3,135.6	4.4	481.8	217.3	8,253.8	—	R 12,106.0	R 12,106.0	1.4	R 12,107.3
2011	—	(s)	15.3	R 4,063.4	5.1	680.1	242.8	10,092.3	—	R 15,099.0	R 15,099.0	1.5	R 15,100.6
2012	—	(s)	14.5	R 3,934.6	3.4	642.4	226.5	10,129.5	—	R 14,950.9	R 14,950.9	1.5	R 14,952.4
2013	—	0.2	13.0	R 3,951.5	4.7	589.0	227.8	10,023.0	—	R 14,809.0	R 14,809.2	1.7	R 14,811.0
2014	—	R 0.7	11.4	R 4,001.2	5.7	517.2	236.9	9,680.8	—	R 14,453.2	R 14,453.8	1.7	R 14,455.5
2015	—	R 0.4	8.7	R 2,811.9	4.3	309.5	250.5	6,903.3	—	R 10,288.2	R 10,288.6	1.7	R 10,290.4
2016	—	R 1.7	7.5	R 2,399.5	4.4	282.0	233.3	6,276.5	(s)	R 9,203.2	R 9,204.9	1.8	R 9,206.7
2017	—	R 1.1	8.8	R 2,730.8	0.9	376.8	216.4	6,967.1	(s)	R 10,300.7	R 10,301.9	1.9	R 10,303.8
2018	—	R 3.0	10.4	R 3,336.0	5.0	R 467.2	R 220.4	7,634.5	—	R 11,673.5	R 11,676.6	2.0	R 11,678.6
2019	—	R 2.7	9.4	R 3,271.6	2.9	R 457.7	R 221.0	7,197.5	—	R 11,160.1	R 11,162.8	1.9	R 11,164.7
2020	—	R 1.3	7.8	R 2,539.3	1.0	R 160.2	R 203.9	5,433.2	—	R 8,345.3	R 8,346.6	1.6	R 8,348.2
2021	—	R 1.7	11.1	R 3,346.8	3.8	R 332.7	R 226.9	8,331.0	(s)	R 12,252.3	R 12,254.0	1.7	R 12,255.7
2022	—	R 1.1	14.3	R 4,845.0	4.2	R 687.2	R 281.8	11,073.4	(s)	R 16,906.0	R 16,907.1	2.3	R 16,909.4
2023	—	1.1	12.3	4,001.1	3.7	599.0	223.7	10,044.5	(s)	14,884.2	14,885.4	2.3	14,887.7

[a] Transportation use of natural gas as vehicle fuel only.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET7. Electric power sector price and expenditure estimates, selected years, 1970-2023, Missouri

Year	Coal	Natural gas [a]	Petroleum: Distillate fuel oil	Petroleum: Petroleum coke	Petroleum: Residual fuel oil	Petroleum: Total	Nuclear fuel	Biomass: Wood and waste [b]	Electricity imports [c]	Total energy [d]
	Prices in dollars per million Btu									
1970	0.25	0.26	0.69	—	0.55	0.62	—	—	—	0.26
1975	0.54	0.59	2.26	0.65	1.74	2.05	—	—	—	0.57
1980	1.19	2.22	6.02	0.67	3.45	5.07	—	—	—	1.25
1985	1.50	3.31	5.76	1.38	3.99	5.60	0.82	—	—	1.41
1990	1.35	1.72	5.11	—	1.80	4.99	0.74	—	—	1.27
1995	0.98	1.68	3.89	0.73	1.64	1.35	0.48	0.61	6.21	0.94
2000	0.92	4.39	6.49	—	3.56	6.49	0.41	0.63	—	1.01
2005	1.01	8.26	12.36	0.50	—	8.63	0.42	—	16.53	1.23
2006	1.11	6.76	14.57	—	—	14.57	0.42	(s)	17.32	1.24
2007	1.33	7.17	17.13	—	—	17.13	0.47	(s)	18.25	1.52
2008	1.50	7.65	21.02	1.46	—	20.64	0.47	1.88	18.28	1.71
2009	1.52	4.72	12.84	1.53	—	9.33	0.59	2.48	12.10	1.56
2010	1.57	5.20	16.39	1.21	—	15.28	0.67	1.41	13.31	1.67
2011	1.72	4.97	22.01	—	—	22.01	0.72	1.03	11.53	1.77
2012	1.85	3.46	22.83	—	—	22.83	0.92	0.09	9.51	1.84
2013	1.90	4.45	22.25	—	—	22.25	0.90	1.20	11.49	1.92
2014	2.00	5.27	20.51	—	—	20.51	0.88	1.13	—	2.03
2015	1.90	3.27	12.88	—	—	12.88	0.88	1.10	—	1.84
2016	1.87	2.85	10.92	—	—	10.92	0.89	1.16	—	1.82
2017	1.87	3.26	13.37	—	—	13.37	0.87	0.08	—	1.85
2018	1.80	3.30	16.15	—	—	16.15	0.85	—	—	1.81
2019	1.67	2.47	14.73	—	—	14.73	0.83	—	—	1.65
2020	1.56	2.23	9.19	—	—	9.19	0.84	—	—	1.55
2021	1.66	9.72	15.56	—	—	15.56	1.29	—	—	2.34
2022	1.92	9.58	25.93	—	—	25.93	0.70	—	—	2.66
2023	1.92	2.85	22.06	—	—	22.06	0.70	—	—	1.92
	Expenditures in million dollars									
1970	58.6	16.6	0.6	—	0.5	1.1	—	—	—	76.3
1975	205.4	15.0	9.3	0.1	4.1	13.5	—	—	—	234.0
1980	586.4	33.3	18.8	0.4	0.6	19.9	—	—	—	639.6
1985	728.4	4.8	6.8	(s)	0.4	7.2	70.0	—	—	810.4
1990	678.0	6.2	6.2	—	0.1	6.3	62.3	—	—	752.7
1995	554.4	21.7	6.4	4.9	0.1	11.4	41.3	0.2	(s)	629.1
2000	608.7	135.7	22.3	—	(s)	22.3	42.7	0.5	—	809.9
2005	814.2	268.5	17.4	0.3	—	17.7	35.3	—	0.7	1,136.4
2006	884.4	225.1	11.7	—	—	11.7	44.0	(s)	0.2	1,165.4
2007	1,026.1	301.2	13.8	—	—	13.8	45.9	(s)	0.1	1,387.0
2008	1,148.0	334.7	17.0	(s)	—	17.0	46.3	0.6	13.0	1,559.8
2009	1,131.7	143.1	11.5	0.6	—	12.2	63.1	1.9	27.6	1,379.5
2010	1,229.3	212.7	22.2	0.1	—	22.4	62.9	0.9	0.2	1,528.5
2011	1,394.6	191.1	18.4	—	—	18.4	70.2	0.6	0.5	1,675.4
2012	1,375.4	179.5	17.7	—	—	17.7	102.9	0.1	0.4	1,675.9
2013	1,480.6	169.8	15.5	—	—	15.5	78.7	0.9	0.1	1,745.6
2014	1,505.0	190.2	22.8	—	—	22.8	85.1	1.0	—	1,804.2
2015	1,278.4	130.3	11.7	—	—	11.7	96.6	1.1	—	1,518.1
2016	1,164.2	153.5	9.8	—	—	9.8	87.6	1.1	—	1,416.1
2017	1,286.3	157.6	9.7	—	—	9.7	75.6	0.1	—	1,529.2
2018	1,168.1	214.4	18.0	—	—	18.0	95.1	—	—	1,495.7
2019	942.6	172.5	17.7	—	—	17.7	79.3	—	—	1,212.2
2020	828.9	156.0	9.7	—	—	9.7	68.1	—	—	1,062.7
2021	987.4	545.9	43.3	—	—	43.3	57.6	—	—	1,634.1
2022	1,050.4	749.9	57.0	—	—	57.0	64.6	—	—	1,921.9
2023	815.9	249.2	41.3	—	—	41.3	67.5	—	—	1,173.9

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[c] Electricity imported from Canada and Mexico.
[d] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET1. Primary energy, electricity, and total energy price and expenditure estimates, selected years, 1970-2023, Montana

Year	Primary energy														Electric power sector [l,k,l]	Electricity [m]	Total energy [h,i,j]
	Coal				Petroleum								Biomass				
	Coking coal	Steam coal	Total	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Nuclear fuel	Wood and waste [g,h]	Total [h,i,j,k]			
	Prices in dollars per million Btu																
1970	—	0.22	0.22	0.57	1.14	2.06	0.76	2.89	0.39	0.91	1.92	—	1.13	1.27	0.23	2.88	1.56
1975	—	0.33	0.33	1.07	2.58	3.58	2.12	4.78	1.99	2.22	3.44	—	1.43	2.41	0.34	4.05	2.78
1980	—	0.53	0.53	3.14	6.59	6.55	6.59	9.99	3.28	4.89	7.25	—	1.70	4.80	0.72	5.80	6.03
1985	—	0.75	0.75	4.84	6.43	7.74	6.64	9.16	3.03	5.18	7.35	—	1.67	4.63	0.74	10.72	7.39
1990	—	0.70	0.70	4.16	7.75	9.23	6.26	9.56	3.03	4.03	7.98	—	1.33	3.80	0.69	11.68	7.72
1995	—	0.72	0.72	4.84	7.79	7.52	5.32	10.14	2.20	3.08	7.82	—	1.35	3.92	0.69	13.71	7.84
2000	—	0.93	0.93	6.39	10.40	11.20	7.77	12.99	2.55	3.19	9.77	—	1.77	5.09	0.91	14.72	9.80
2005	—	0.72	0.72	9.38	16.64	16.54	13.75	18.47	5.08	4.89	15.90	—	4.28	7.66	0.73	19.79	14.89
2006	—	0.89	0.89	11.15	19.01	18.56	15.73	20.68	5.79	5.69	17.60	—	4.36	8.95	0.92	20.35	16.38
2007	—	1.12	1.12	9.58	20.58	20.57	16.34	23.11	—	5.58	19.23	—	4.33	9.57	1.18	21.01	17.28
2008	—	1.35	1.35	11.06	26.60	24.19	23.60	26.84	—	6.94	23.74	—	5.75	11.43	1.44	22.72	20.47
2009	—	1.38	1.38	9.20	16.90	19.45	13.31	19.54	7.08	10.56	17.06	—	4.24	8.95	1.44	22.31	16.14
2010	—	1.42	1.42	8.30	21.53	20.59	16.87	23.59	8.60	R 12.05	R 20.92	—	4.40	9.43	1.48	23.08	R 18.24
2011	—	1.49	1.49	8.12	27.79	23.98	23.24	29.07	13.61	R 12.75	R 25.77	—	9.72	R 12.43	1.59	24.26	R 21.78
2012	—	1.62	1.62	7.36	28.33	21.00	24.17	29.80	14.82	R 13.32	R 26.27	—	10.32	R 12.71	1.74	24.32	R 21.99
2013	—	1.85	1.85	7.40	27.71	21.09	22.72	29.22	14.60	R 13.08	R 26.01	—	11.55	R 12.45	2.00	25.74	R 22.05
2014	—	1.84	1.84	8.29	27.25	24.47	21.11	28.49	13.91	R 13.70	R 25.73	—	R 10.81	12.15	2.01	25.76	R 21.85
2015	—	1.73	1.73	6.90	18.81	17.12	12.52	20.84	—	R 11.75	R 18.43	—	R 9.56	8.93	1.77	26.76	17.65
2016	—	1.68	1.68	6.25	16.24	16.30	10.08	18.58	—	R 9.49	R 16.16	—	R 8.25	8.24	1.69	26.69	15.97
2017	—	1.77	1.77	6.62	19.24	19.90	12.47	21.00	—	9.75	R 18.47	—	R 8.96	9.42	1.83	26.89	R 17.18
2018	—	2.02	2.02	6.32	22.98	20.18	16.10	24.09	—	11.28	R 21.57	—	R 10.19	10.72	2.04	26.65	18.56
2019	—	1.97	1.97	6.04	21.36	17.80	15.39	23.00	—	11.27	20.36	—	R 9.85	10.08	1.95	27.19	18.00
2020	—	2.28	2.28	6.12	17.45	15.46	10.84	19.74	—	10.44	R 17.07	—	R 6.48	R 10.12	2.22	27.66	R 16.27
2021	—	2.32	2.32	7.51	24.04	20.90	15.58	27.63	—	11.78	23.44	—	R 8.08	R 12.76	2.44	28.54	R 20.62
2022	—	2.15	2.15	8.98	R 35.47	23.04	27.61	34.44	—	R 16.96	R 31.44	—	R 13.50	R 16.15	2.48	29.70	R 25.59
2023	—	2.42	2.42	8.00	30.78	20.23	22.04	31.25	—	14.95	27.82	—	12.07	14.38	2.57	32.77	24.05
	Expenditures in million dollars																
1970	—	2.6	2.6	45.1	31.9	9.8	2.7	140.7	0.7	17.2	203.0	—	2.9	253.6	-3.4	84.1	334.3
1975	—	6.2	6.2	78.2	114.2	17.4	9.7	266.6	17.6	32.6	458.2	—	2.7	545.2	-6.4	119.8	658.6
1980	—	31.9	31.9	166.0	288.2	42.8	34.1	546.8	68.3	63.8	1,043.9	—	5.1	1,246.9	-44.3	207.7	1,410.2
1985	—	74.7	74.7	204.7	391.1	40.9	25.2	490.3	2.4	87.7	1,037.7	—	6.7	1,326.6	-71.5	488.6	1,743.7
1990	—	117.5	117.5	162.9	328.7	57.2	24.8	518.4	0.2	77.8	1,007.2	—	9.5	1,298.6	-113.8	510.9	1,695.8
1995	—	126.9	126.9	251.1	364.7	25.4	31.3	597.6	0.6	76.5	1,096.1	—	18.1	1,492.3	-118.4	614.1	1,987.9
2000	—	163.9	163.9	365.5	488.1	55.8	32.9	780.9	(s)	107.6	1,465.2	—	21.1	2,015.8	-165.8	716.6	2,566.7
2005	—	143.2	143.2	520.8	1,109.9	152.6	86.7	1,128.9	2.2	86.3	2,566.6	—	53.2	3,290.1	-147.8	894.3	4,036.5
2006	—	173.9	173.9	658.6	1,349.5	169.1	93.2	1,282.2	3.6	134.5	3,032.1	—	54.1	3,923.7	-182.6	942.8	4,684.0
2007	—	227.6	227.6	573.7	1,652.5	230.1	95.1	1,435.5	—	142.4	3,555.5	—	64.3	4,427.0	-247.7	1,092.4	5,271.7
2008	—	275.0	275.0	699.1	1,978.9	273.4	111.4	1,593.5	—	166.1	4,123.3	—	74.2	5,186.5	-302.7	1,165.8	6,049.7
2009	—	238.3	238.3	604.2	R 1,126.3	192.6	59.8	1,177.7	2.5	230.4	R 2,789.3	—	34.1	R 3,674.8	-261.2	1,073.5	R 4,487.1
2010	—	289.1	289.1	496.1	R 1,225.8	185.1	107.7	1,423.4	(s)	R 226.8	R 3,168.8	—	42.7	R 4,008.0	-312.0	1,067.2	R 4,763.2
2011	—	247.4	247.4	549.1	R 1,693.2	232.7	145.5	1,727.0	0.4	R 278.9	R 4,077.6	—	26.3	R 4,902.1	-280.4	1,124.5	R 5,746.2
2012	—	255.2	255.2	455.2	R 1,639.8	166.8	153.9	1,793.1	(s)	R 284.1	R 4,037.9	—	24.5	R 4,778.3	-291.1	1,132.6	R 5,619.8
2013	—	307.0	307.0	472.7	R 1,686.8	162.2	110.4	1,795.4	0.1	R 249.9	R 4,004.8	—	30.4	R 4,817.1	-354.4	1,158.2	R 5,620.9
2014	—	322.1	322.1	527.7	R 1,543.7	215.2	113.5	1,770.0	0.2	R 252.8	R 3,895.6	—	R 31.2	R 4,780.2	-370.0	1,163.6	R 5,573.9
2015	—	308.9	308.9	408.7	R 918.2	153.4	60.6	1,345.7	—	R 235.2	R 2,713.1	—	R 61.7	R 3,497.3	-334.1	1,218.3	R 4,381.5
2016	—	271.9	271.9	376.0	R 815.7	131.3	62.3	1,219.0	—	R 180.8	R 2,409.1	—	R 55.2	R 3,117.2	-289.7	1,199.2	R 4,026.7
2017	—	276.1	276.1	452.5	R 1,000.3	174.7	92.0	1,374.6	—	194.9	R 2,836.5	—	R 60.6	R 3,634.0	-302.1	1,262.2	R 4,594.1
2018	—	307.6	307.6	467.0	R 1,223.2	190.8	R 121.1	1,555.9	—	202.1	R 3,293.1	—	R 85.6	R 4,155.2	-327.9	1,262.9	R 5,090.2
2019	—	313.6	313.6	459.1	R 1,168.3	208.1	R 102.5	1,487.5	—	R 200.9	R 3,167.3	—	R 80.1	R 4,022.3	-330.0	1,327.1	R 5,019.4
2020	—	225.1	225.1	438.5	R 1,009.9	167.6	R 80.3	1,198.8	—	191.0	R 2,647.5	—	R 25.0	R 3,336.7	-236.7	1,278.6	R 4,378.6
2021	—	284.3	284.3	534.3	R 1,274.6	222.2	R 117.3	1,832.5	—	R 225.8	R 3,672.5	—	R 30.4	R 4,523.9	-323.9	1,358.3	R 5,558.3
2022	—	282.8	282.8	R 700.5	R 1,868.1	310.5	R 185.9	2,265.4	—	R 316.8	R 4,946.8	—	R 53.6	R 5,993.3	R -354.1	1,480.3	R 7,119.5
2023	—	314.7	314.7	643.6	1,583.5	231.2	186.9	2,017.4	—	276.6	4,295.6	—	43.4	5,306.9	-375.0	1,622.9	6,554.8

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[l] Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
[m] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET2. Total end-use energy price and expenditure estimates, selected years, 1970-2023, Montana

Year	Primary energy											Electricity [k]	Total energy [h,i,j]
			Petroleum							Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g,h]	Total [h,i,j]		
	Prices in dollars per million Btu												
1970	0.54	0.58	1.14	2.06	0.76	2.89	0.40	0.91	1.92	1.34	1.36	2.88	1.56
1975	0.80	1.09	2.58	3.58	2.12	4.78	1.99	2.22	3.45	1.47	2.60	4.05	2.78
1980	2.03	3.08	6.60	6.55	6.59	9.99	3.28	4.89	7.25	1.69	6.07	5.80	6.03
1985	1.81	4.90	6.43	7.74	6.64	9.16	3.03	5.18	7.35	1.83	6.59	10.72	7.39
1990	1.53	4.19	7.77	9.23	6.26	9.56	3.03	4.03	7.99	1.49	6.73	11.68	7.72
1995	1.46	4.85	7.81	7.52	5.32	10.14	2.20	4.09	8.23	1.35	6.58	13.71	7.84
2000	1.69	6.40	10.41	11.20	7.77	12.99	2.55	4.07	10.31	1.77	8.68	14.72	9.80
2005	2.09	9.39	16.64	16.54	13.75	18.47	5.08	7.91	16.62	4.28	13.91	19.79	14.89
2006	2.26	11.20	19.02	18.56	15.73	20.68	5.79	7.83	18.34	4.36	15.62	20.35	16.38
2007	2.40	9.65	20.59	20.57	16.34	23.11	—	7.20	19.94	4.33	16.52	21.01	17.28
2008	2.55	11.07	26.61	24.19	23.60	26.84	—	9.01	24.62	5.75	20.00	22.72	20.47
2009	2.71	9.24	16.91	19.45	13.31	19.54	7.08	15.47	17.83	4.24	14.85	22.31	16.14
2010	2.60	8.34	21.54	20.59	16.87	23.59	8.60	R 17.62	R 21.80	4.40	R 17.20	23.08	R 18.24
2011	2.76	8.42	27.81	23.98	23.24	29.07	13.61	R 18.61	R 26.99	9.72	R 21.25	24.26	R 21.78
2012	2.15	7.68	28.34	21.00	24.17	29.80	14.82	R 19.69	R 27.55	10.32	R 21.47	24.32	R 21.99
2013	2.42	7.69	27.72	21.09	22.72	29.22	14.60	R 20.38	R 27.25	11.55	R 21.26	25.74	R 22.05
2014	2.35	8.50	27.27	24.47	21.11	28.49	13.91	R 20.72	R 26.87	R 10.81	R 21.01	25.76	R 21.85
2015	2.16	7.50	18.82	17.12	12.52	20.84	—	R 18.85	R 19.43	R 9.56	R 15.60	26.76	17.65
2016	2.27	6.70	R 16.26	16.30	10.08	18.58	—	R 14.97	R 16.97	R 8.25	R 13.64	26.69	15.97
2017	2.09	6.98	19.25	19.90	12.47	21.00	—	14.70	19.35	R 8.96	15.11	26.89	R 17.18
2018	2.27	6.71	22.99	20.18	16.10	24.09	—	16.91	R 22.49	R 10.19	16.87	26.65	18.56
2019	2.86	6.41	21.37	17.80	15.39	23.00	—	17.87	21.28	R 9.85	16.05	27.19	18.00
2020	2.43	6.34	17.46	15.46	10.84	19.74	—	R 16.70	17.86	R 6.62	R 13.91	27.66	R 16.27
2021	2.50	7.89	24.05	20.90	15.58	27.63	—	R 17.35	24.47	R 8.26	R 18.92	28.54	R 20.62
2022	2.92	9.53	R 35.50	23.04	27.61	34.44	—	R 24.48	R 32.72	R 13.74	R 24.70	29.70	R 25.59
2023	3.57	8.89	30.79	20.23	22.04	31.25	—	22.62	29.07	12.26	22.12	32.77	24.05
	Expenditures in million dollars												
1970	0.5	44.4	31.9	9.8	2.7	140.7	0.6	17.2	203.0	2.4	250.2	84.1	334.3
1975	1.0	77.7	114.2	17.4	9.7	266.6	17.0	32.6	457.5	2.6	538.8	119.8	658.6
1980	6.6	149.0	286.5	42.8	34.1	546.8	68.3	63.8	1,042.2	4.8	1,202.5	207.7	1,410.2
1985	7.6	204.4	389.7	40.9	25.2	490.3	2.4	87.7	1,036.3	6.3	1,255.1	488.6	1,743.7
1990	7.8	162.2	326.7	57.2	24.8	518.4	0.2	77.8	1,005.2	9.5	1,184.9	510.9	1,695.8
1995	16.7	249.7	363.1	25.4	31.3	597.6	0.6	71.4	1,089.4	18.1	1,373.8	614.1	1,987.9
2000	4.6	364.5	486.2	55.8	32.9	780.9	(s)	104.0	1,459.8	21.1	1,850.0	716.6	2,566.7
2005	8.2	519.1	1,108.5	152.6	86.7	1,128.9	2.2	82.8	2,561.6	53.2	3,142.2	894.3	4,036.5
2006	8.6	655.1	1,347.3	169.1	93.2	1,282.2	3.6	127.9	3,023.3	54.1	3,741.2	942.8	4,684.0
2007	4.0	567.6	1,650.3	230.1	95.1	1,435.5	—	132.3	3,543.3	64.3	4,179.3	1,092.4	5,271.7
2008	4.2	694.2	1,977.2	273.4	111.4	1,593.5	—	155.8	4,111.2	74.2	4,883.8	1,165.8	6,049.7
2009	3.1	600.4	R 1,125.1	192.6	59.8	1,177.7	2.5	218.4	R 2,776.0	34.1	R 3,413.6	1,073.5	R 4,487.1
2010	3.4	492.4	R 1,224.3	185.1	107.7	1,423.4	(s)	R 217.1	R 3,157.6	42.7	R 3,696.0	1,067.2	R 4,763.2
2011	4.0	529.4	R 1,689.9	232.7	145.5	1,727.0	0.4	R 266.7	R 4,062.0	26.3	R 4,621.7	1,124.5	R 5,746.2
2012	9.2	432.8	R 1,637.9	166.8	153.9	1,793.1	(s)	R 268.8	R 4,020.6	24.5	R 4,487.2	1,132.6	R 5,619.8
2013	10.9	434.0	R 1,684.3	162.2	110.4	1,795.4	0.1	R 235.1	R 3,987.4	30.4	R 4,462.7	1,158.2	R 5,620.9
2014	11.5	491.5	R 1,537.8	215.2	113.5	1,770.0	0.2	R 239.3	R 3,876.0	R 31.2	R 4,410.2	1,163.6	R 5,573.9
2015	10.9	393.5	R 917.2	153.4	60.6	1,345.7	—	R 220.2	R 2,697.1	R 61.7	R 3,163.2	1,218.3	R 4,381.5
2016	10.7	366.2	R 814.3	131.3	62.3	1,219.0	—	R 168.4	R 2,395.4	R 55.2	R 2,827.5	1,199.2	R 4,026.7
2017	9.6	443.9	R 999.0	174.7	92.0	1,374.6	—	177.5	R 2,817.8	R 60.6	R 3,331.9	1,262.2	R 4,594.1
2018	9.9	460.1	R 1,220.7	190.8	R 121.1	1,555.9	—	183.4	R 3,271.8	R 85.6	R 3,827.4	1,262.9	R 5,090.2
2019	10.2	450.0	R 1,166.0	208.1	R 102.5	1,487.5	—	187.8	R 3,152.0	R 80.1	R 3,692.3	1,327.1	R 5,019.4
2020	8.7	432.3	R 1,008.5	167.6	R 80.3	1,198.8	—	R 178.9	R 2,634.1	R 24.8	R 3,099.9	1,278.6	R 4,378.6
2021	10.5	514.7	R 1,273.0	222.2	R 117.3	1,832.5	—	199.5	R 3,644.6	R 30.2	R 4,200.0	1,358.3	R 5,558.3
2022	13.4	667.1	R 1,865.0	310.5	R 185.9	2,265.4	—	R 278.4	R 4,905.4	R 53.3	R 5,639.2	1,480.3	R 7,119.5
2023	12.1	618.7	1,580.9	231.2	186.9	2,017.4	—	241.5	4,257.9	43.1	4,931.9	1,622.9	6,554.8

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. · Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2023, Montana

Year	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
	Prices in dollars per million Btu									
1970	0.80	0.88	1.28	2.31	—	1.99	0.72	1.05	6.57	1.85
1975	1.06	1.27	2.84	3.88	—	3.37	1.43	1.73	7.02	2.72
1980	1.35	3.02	6.92	7.21	—	7.08	3.66	3.91	9.04	5.35
1985	0.98	4.82	7.92	8.18	8.29	8.07	4.14	5.36	13.77	8.22
1990	1.32	4.47	6.42	9.99	5.70	8.70	4.75	5.32	15.97	8.86
1995	1.39	5.00	6.09	7.57	5.87	6.95	3.86	5.21	17.85	9.52
2000	0.98	5.89	8.40	10.96	8.69	10.38	5.88	6.66	19.02	10.87
2005	1.08	10.29	15.12	16.28	14.51	16.13	9.20	11.58	23.75	15.44
2006	1.08	11.07	17.18	17.94	20.29	17.83	10.60	12.71	24.28	16.56
2007	1.08	9.75	18.81	19.33	22.24	19.27	11.71	12.57	25.71	16.92
2008	—	11.27	22.99	23.58	27.57	23.50	14.42	15.05	26.75	18.73
2009	—	9.40	14.92	19.42	23.01	19.11	10.83	12.32	26.19	16.91
2010	—	8.54	18.90	20.71	24.68	20.57	12.78	11.94	26.85	17.08
2011	—	8.66	24.41	23.81	25.35	23.85	15.36	13.03	28.58	18.37
2012	—	7.85	25.04	21.78	26.56	22.03	17.11	11.76	29.55	18.38
2013	—	7.92	24.43	21.55	26.26	21.75	16.76	11.46	30.27	18.26
2014	—	8.88	23.21	25.51	26.13	25.40	16.34	13.18	29.84	19.10
2015	—	7.95	13.85	19.00	16.01	18.72	11.26	10.96	31.89	18.14
2016	—	7.03	12.45	18.10	12.76	17.76	9.62	9.70	32.05	17.48
2017	—	7.32	16.75	21.20	15.96	20.98	10.76	10.79	32.10	18.04
2018	—	7.02	18.80	22.06	23.06	21.91	11.90	10.74	32.13	17.68
2019	—	6.75	18.10	19.23	21.53	19.19	11.46	10.44	32.63	17.24
2020	—	6.73	14.87	16.78	13.99	16.71	9.47	9.45	32.95	R 17.68
2021	—	8.37	17.76	22.11	22.09	21.88	11.37	R 11.99	32.89	R 19.68
2022	—	9.91	27.43	24.61	28.83	R 24.74	R 17.58	R 14.56	33.21	R 21.08
2023	—	9.63	25.11	22.76	25.02	22.89	16.07	13.33	36.75	21.92
	Expenditures in million dollars									
1970	0.1	22.5	1.9	7.6	—	9.5	0.2	32.3	34.4	66.7
1975	0.1	31.2	9.7	14.0	—	23.7	0.5	55.5	51.3	106.9
1980	0.1	58.9	17.0	22.1	—	39.1	1.1	99.2	89.9	189.0
1985	(s)	93.2	14.3	18.3	0.4	33.0	1.9	128.2	169.8	298.0
1990	0.3	77.4	10.9	30.1	(s)	41.0	3.6	122.3	183.0	305.3
1995	(s)	101.1	7.7	13.3	(s)	21.0	2.8	125.0	221.6	346.6
2000	(s)	121.3	8.3	37.5	(s)	45.8	4.6	171.7	253.6	425.3
2005	0.2	212.2	14.9	108.3	0.1	123.3	23.4	359.1	342.1	701.1
2006	0.2	219.0	19.6	119.0	0.1	138.6	23.9	381.7	363.9	745.7
2007	(s)	195.4	21.4	147.8	0.1	169.3	29.1	393.9	398.4	792.3
2008	—	247.1	33.0	201.9	0.4	235.3	40.2	522.6	426.2	948.8
2009	—	206.8	9.9	176.2	(s)	186.1	14.5	407.4	428.1	835.6
2010	—	180.4	11.9	156.4	0.2	168.4	18.4	367.1	434.4	801.5
2011	—	191.0	14.0	191.1	0.1	205.1	21.4	417.6	479.2	896.7
2012	—	153.5	13.5	137.0	(s)	150.4	19.9	323.9	481.8	805.7
2013	—	170.5	11.2	132.9	(s)	144.1	25.5	R 340.1	508.9	848.9
2014	—	194.8	8.5	177.2	0.1	R 185.9	25.1	405.7	506.0	911.7
2015	—	155.3	5.6	132.9	(s)	R 138.6	51.5	345.3	525.0	870.3
2016	—	138.9	4.8	111.9	0.1	116.8	45.2	R 300.9	530.7	831.5
2017	—	163.7	6.4	153.5	(s)	159.9	R 49.3	R 372.9	572.3	R 945.2
2018	—	165.6	6.4	152.1	(s)	158.5	R 72.7	R 396.8	569.8	R 966.6
2019	—	169.7	6.7	183.4	(s)	R 190.1	R 68.2	R 427.9	590.9	R 1,018.9
2020	—	157.1	4.0	142.1	0.5	R 146.6	R 18.2	R 321.9	604.8	R 926.7
2021	—	187.0	7.7	173.8	(s)	181.5	R 22.6	R 391.1	623.9	R 1,015.0
2022	—	242.4	12.2	246.3	(s)	258.5	R 44.0	R 544.9	668.0	R 1,212.8
2023	—	224.8	11.3	181.2	(s)	192.5	34.2	451.4	721.7	1,173.1

[a] Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2023, Montana

Year	Primary energy										Electricity [j]	Total energy [g,h,i]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f,g]	Total [g,h,i]		
	Prices in dollars per million Btu											
1970	0.48	0.60	1.06	1.47	0.94	2.89	0.34	1.64	0.72	0.78	5.74	1.51
1975	0.79	1.07	2.49	2.68	2.63	4.78	2.03	2.87	1.43	1.50	6.39	2.39
1980	2.04	3.12	6.45	5.59	—	9.99	4.42	6.78	3.66	3.76	8.50	5.11
1985	1.82	5.10	5.76	6.75	8.29	9.16	3.03	5.70	4.14	5.26	12.49	8.20
1990	1.54	4.52	5.53	7.83	5.70	9.56	3.03	7.04	4.75	4.69	13.53	8.37
1995	1.46	4.78	4.57	7.57	5.87	10.14	2.20	5.95	3.86	4.82	15.78	9.56
2000	1.69	5.76	6.91	11.30	8.69	12.99	2.55	9.16	5.88	6.11	15.33	10.46
2005	2.14	10.31	13.51	16.27	14.51	18.47	—	15.32	9.20	9.95	21.77	15.19
2006	2.34	10.93	15.91	18.93	20.29	20.68	—	17.56	10.60	10.81	21.81	15.88
2007	2.40	9.60	17.24	21.29	22.24	23.11	—	19.57	11.71	11.06	23.75	17.46
2008	2.19	11.14	23.03	24.34	27.57	26.84	—	23.85	14.42	13.20	25.04	18.80
2009	2.53	9.31	13.61	19.05	—	19.54	7.08	15.24	10.83	9.67	24.39	15.34
2010	2.22	8.44	17.29	19.25	24.68	23.59	8.60	18.76	12.78	9.24	25.05	15.83
2011	2.21	8.52	23.00	24.15	25.35	29.07	13.61	23.78	15.36	9.72	26.72	16.51
2012	1.92	7.79	23.61	17.91	26.56	29.80	14.82	19.96	17.11	8.99	26.75	16.66
2013	3.16	7.82	23.16	18.97	26.26	29.22	14.60	20.72	16.76	8.90	27.95	16.76
2014	3.02	8.55	21.86	20.30	26.13	28.49	13.91	20.90	16.34	9.67	28.26	17.23
2015	2.34	7.82	12.87	10.52	16.01	20.84	—	13.84	11.26	R 8.55	29.97	R 17.49
2016	2.44	6.90	10.85	10.40	12.76	18.58	—	12.49	9.62	R 7.64	29.87	R 16.28
2017	2.53	7.13	13.28	13.77	15.96	21.00	—	15.60	10.76	R 8.06	29.66	R 16.22
2018	2.66	6.80	16.72	15.12	—	24.09	—	17.25	11.90	R 8.11	29.62	R 15.52
2019	3.39	6.56	15.23	11.57	21.53	23.00	—	15.20	11.46	R 7.44	30.51	R 15.27
2020	2.87	6.50	10.32	10.80	13.99	19.74	—	12.78	9.47	R 7.22	30.82	R 15.22
2021	3.08	8.22	17.46	17.56	22.09	27.63	—	19.72	11.37	R 9.65	30.89	R 17.23
2022	3.20	9.72	27.27	18.63	28.83	34.44	—	23.10	R 17.58	R 11.43	31.29	R 18.23
2023	3.81	9.19	21.59	14.52	25.02	31.25	—	18.68	16.07	10.49	35.48	19.09
	Expenditures in million dollars											
1970	0.1	11.5	1.7	1.1	0.5	3.3	(s)	6.6	(s)	18.2	23.3	41.4
1975	0.1	20.4	9.7	2.1	0.8	4.4	(s)	17.0	(s)	37.6	35.9	73.4
1980	0.5	44.9	13.0	3.8	—	4.8	0.2	21.8	(s)	67.2	60.7	127.9
1985	0.2	75.5	25.9	3.3	(s)	3.5	2.4	35.1	(s)	110.9	180.8	291.7
1990	1.3	56.4	5.0	5.2	(s)	4.2	0.2	14.6	0.4	72.7	149.4	222.1
1995	0.3	66.4	2.7	2.9	(s)	0.7	(s)	6.3	0.4	73.4	183.6	257.0
2000	0.1	79.8	5.7	8.5	(s)	1.0	(s)	15.2	0.8	95.9	214.6	310.5
2005	5.2	140.8	12.8	25.9	0.6	1.5	—	40.8	3.7	190.5	332.2	522.8
2006	5.4	146.6	19.9	25.0	(s)	1.7	—	46.5	4.0	202.5	348.8	551.2
2007	0.1	129.1	17.4	25.8	(s)	1.8	—	45.0	4.7	178.9	391.3	570.1
2008	0.6	162.3	30.5	40.0	0.2	2.3	—	73.0	6.1	242.1	412.2	654.3
2009	0.6	221.8	11.4	13.4	—	1.5	1.4	27.8	2.0	252.3	398.7	651.0
2010	0.4	174.7	10.4	21.5	(s)	1.8	(s)	33.9	2.4	211.4	409.4	620.7
2011	0.5	193.4	16.3	28.1	0.1	2.2	0.4	47.0	2.8	243.7	446.0	689.7
2012	0.2	153.3	14.5	25.8	(s)	2.2	(s)	42.5	2.7	198.7	448.9	647.6
2013	0.1	169.7	R 14.0	22.5	(s)	2.2	0.1	38.8	3.1	211.6	466.3	R 677.9
2014	0.1	189.0	R 10.8	30.8	(s)	2.1	0.2	R 43.9	R 3.0	R 235.9	472.7	R 708.6
2015	0.1	157.6	3.9	15.6	(s)	15.6	—	35.2	R 6.9	R 199.8	500.5	R 700.3
2016	0.1	152.0	8.1	16.8	(s)	14.0	—	38.9	R 7.0	R 198.0	492.3	R 690.3
2017	0.1	173.4	8.9	19.0	(s)	15.9	—	43.8	R 7.9	R 225.2	503.0	R 728.2
2018	0.2	186.5	R 9.3	35.1	—	18.5	—	62.8	R 9.5	R 259.0	497.4	R 756.4
2019	0.1	191.5	R 7.7	19.3	(s)	17.8	—	44.7	R 8.6	R 244.9	515.9	R 760.7
2020	(s)	178.7	5.8	21.9	(s)	15.4	—	43.1	R 3.6	R 225.5	494.4	R 719.9
2021	0.1	214.6	9.9	40.2	(s)	21.8	—	71.9	R 4.3	R 291.0	517.1	R 808.0
2022	0.1	276.6	15.7	48.7	(s)	28.2	—	92.6	R 6.7	R 376.1	535.9	R 912.0
2023	(s)	259.7	12.5	41.6	(s)	25.4	—	79.6	6.1	345.5	613.0	958.5

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[g] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[j] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: Expenditure totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2023, Montana

Year	Primary energy												Electricity [i]	Total energy [f,g,h]
	Coal			Natural gas [a]	Petroleum						Biomass	Total [f,g,h]		
	Coking coal	Steam coal	Total		Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e,f]			
	Prices in dollars per million Btu													
1970	—	0.48	0.48	0.33	0.87	1.55	2.89	0.45	0.67	0.98	1.49	0.66	1.33	0.82
1975	—	0.79	0.79	0.93	2.44	2.92	4.78	1.99	1.77	2.38	1.49	1.76	1.96	1.80
1980	—	2.04	2.04	3.11	5.19	6.09	9.99	3.28	3.56	4.38	1.46	3.91	3.05	3.72
1985	—	1.82	1.82	4.71	6.14	7.58	9.16	3.03	4.11	5.81	1.46	5.25	7.35	5.71
1990	—	1.54	1.54	3.18	6.01	8.72	9.56	3.03	2.71	4.98	1.00	4.08	8.40	5.24
1995	—	1.46	1.46	4.73	5.22	7.28	10.14	2.20	2.69	4.57	1.18	3.57	10.07	4.98
2000	—	1.69	1.69	7.26	6.76	12.12	12.99	—	2.87	4.78	1.43	4.92	11.63	6.43
2005	—	2.14	2.14	7.90	14.11	18.78	18.47	5.08	4.46	11.97	2.75	9.15	14.17	10.11
2006	—	2.34	2.34	11.44	16.71	21.72	20.68	4.78	4.92	12.82	2.68	10.92	14.99	11.59
2007	—	2.40	2.40	9.59	18.23	24.31	23.11	—	4.37	13.85	2.55	10.83	15.11	11.64
2008	—	2.62	2.62	10.87	23.96	29.06	26.84	—	5.61	17.53	2.87	13.36	17.31	14.11
2009	—	2.76	2.76	8.96	13.96	25.58	19.54	7.08	12.55	13.74	2.69	11.01	16.00	11.98
2010	—	2.67	2.67	7.97	17.87	22.39	23.59	—	R 14.60	R 16.81	2.72	R 11.38	16.28	R 12.40
2011	—	2.87	2.87	8.00	24.10	26.28	29.07	—	R 15.46	R 20.42	1.92	R 15.02	15.46	R 15.11
2012	—	2.16	2.16	7.36	24.21	18.84	29.80	—	R 16.62	R 21.12	1.82	R 14.61	14.96	R 14.68
2013	—	2.41	2.41	7.09	23.77	20.10	29.22	14.60	R 16.72	R 21.28	1.99	R 14.97	15.91	R 15.15
2014	—	2.34	2.34	7.79	22.62	21.69	28.49	—	R 16.98	R 20.67	2.65	R 14.41	16.10	R 14.75
2015	—	2.16	2.16	6.29	14.06	10.02	20.84	—	R 15.11	R 15.01	2.62	R 10.39	15.59	R 11.59
2016	—	2.27	2.27	5.86	11.31	9.88	18.58	—	R 11.05	R 11.77	2.37	R 8.39	14.82	R 9.89
2017	—	2.08	2.08	6.34	13.95	13.25	21.00	—	11.19	13.07	2.37	9.02	15.38	10.39
2018	—	2.27	2.27	6.15	17.46	14.59	24.09	—	12.93	15.83	2.24	10.20	15.22	11.33
2019	—	2.85	2.85	5.57	15.66	11.03	23.00	—	13.88	15.37	2.36	10.32	15.98	11.68
2020	—	2.43	2.43	5.58	11.01	10.25	19.74	—	R 12.75	12.48	2.10	8.63	15.17	10.01
2021	—	2.50	2.50	6.75	17.67	16.97	27.63	—	R 13.22	16.26	2.54	10.93	18.28	12.49
2022	—	2.92	2.92	8.69	27.72	18.00	34.44	—	R 19.51	R 24.06	R 2.65	R 15.60	21.94	R 16.99
2023	—	3.56	3.56	7.46	22.56	13.87	31.25	—	18.38	21.14	2.80	13.73	22.86	15.77
	Expenditures in million dollars													
1970	—	0.3	0.3	10.4	6.5	0.9	9.6	0.4	11.5	28.9	2.1	41.8	26.5	68.2
1975	—	0.8	0.8	26.1	35.5	0.8	19.4	14.9	23.1	93.7	2.1	122.6	32.6	155.3
1980	—	6.0	6.0	45.2	58.2	15.9	32.5	68.1	39.4	214.1	3.7	269.0	57.1	326.0
1985	—	7.4	7.4	35.7	185.8	17.9	32.6	(s)	62.9	299.2	4.3	346.6	138.0	484.6
1990	—	6.2	6.2	28.4	97.2	19.8	30.8	(s)	47.4	195.3	5.5	235.4	178.5	413.9
1995	—	16.4	16.4	82.0	69.3	8.3	34.1	0.5	42.8	155.1	14.9	268.4	208.8	477.2
2000	—	4.5	4.5	163.1	74.9	9.3	27.4	—	67.9	179.5	15.8	362.8	248.4	611.2
2005	—	2.8	2.8	166.1	288.8	16.9	61.2	2.2	40.7	409.7	26.1	604.7	220.0	824.7
2006	—	3.0	3.0	289.5	356.2	23.8	74.4	2.1	73.2	529.7	26.2	848.4	230.1	1,078.6
2007	—	3.9	3.9	243.1	471.9	55.5	59.5	—	74.2	661.1	30.5	938.6	302.7	1,241.3
2008	—	3.6	3.6	284.7	598.9	27.8	49.1	—	88.8	764.6	27.9	1,080.8	327.4	1,408.2
2009	—	2.4	2.4	171.8	306.4	2.3	35.5	1.1	161.3	506.5	17.6	698.4	246.7	945.0
2010	—	3.0	3.0	137.3	221.7	6.6	35.2	—	R 164.7	R 428.3	22.0	R 590.5	223.4	R 813.9
2011	—	3.5	3.5	144.9	329.9	13.0	43.6	—	R 206.1	R 592.6	2.2	R 743.1	199.4	R 942.5
2012	—	9.0	9.0	126.0	358.5	3.7	41.4	—	R 211.8	R 615.4	1.9	R 752.4	201.9	R 954.3
2013	—	10.8	10.8	93.9	354.8	6.4	42.9	(s)	R 177.4	R 581.5	1.8	R 688.0	183.1	R 871.1
2014	—	11.4	11.4	107.8	314.9	6.9	41.0	—	R 178.8	R 541.6	3.1	R 663.9	184.9	R 848.8
2015	—	10.7	10.7	80.7	134.1	4.6	36.7	—	R 160.3	R 335.7	3.3	R 430.4	192.7	R 623.1
2016	—	10.6	10.6	75.4	92.2	2.4	31.9	—	R 113.1	R 239.6	3.0	R 328.6	176.2	R 504.8
2017	—	9.5	9.5	106.7	116.0	1.9	36.2	—	124.7	278.8	3.4	398.4	186.9	585.4
2018	—	9.7	9.7	108.0	154.9	2.9	42.3	—	128.3	328.4	3.4	449.4	195.7	645.2
2019	—	10.1	10.1	88.9	166.9	4.9	39.8	—	133.8	345.3	3.4	447.6	220.3	667.9
2020	—	8.7	8.7	96.5	110.5	2.9	34.5	—	R 125.0	R 272.9	3.0	R 381.1	179.4	R 560.5
2021	—	10.5	10.5	113.1	159.2	7.9	46.9	—	140.3	354.4	3.3	481.3	217.3	698.6
2022	—	13.3	13.3	148.1	253.0	14.8	63.4	—	R 203.9	R 535.1	R 2.6	R 699.1	276.4	R 975.6
2023	—	12.0	12.0	134.2	201.1	8.0	58.6	—	183.0	450.7	2.8	599.8	288.2	888.1

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[i] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET6. Transportation sector energy price and expenditure estimates, selected years, 1970-2023, Montana

Year	Primary energy											Electricity [g]	Total energy [f]
			Petroleum										
	Coal	Natural gas[a]	Aviation gasoline	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Lubricants	Motor gasoline [e]	Residual fuel oil	Total	Total [f]		
	Prices in dollars per million Btu												
1970	0.48	—	2.17	1.24	1.47	0.76	5.08	2.89	0.34	2.34	2.34	—	2.34
1975	0.79	—	3.45	2.65	2.68	2.12	7.48	4.78	2.01	4.02	4.02	—	4.02
1980	—	—	9.02	7.15	5.59	6.59	14.36	9.99	—	8.92	8.92	—	8.92
1985	—	—	9.99	6.80	7.18	6.64	18.18	9.16	4.01	8.45	8.45	—	8.45
1990	—	4.47	9.32	9.18	8.36	6.26	20.61	9.56	—	9.45	9.45	—	9.45
1995	—	4.48	8.36	9.03	8.97	5.32	21.75	10.14	—	9.60	9.60	—	9.60
2000	—	6.30	10.87	11.75	12.77	7.77	23.20	12.99	—	12.45	12.45	—	12.45
2005	—	9.80	18.56	17.92	18.26	13.75	35.22	18.47	—	18.14	18.14	—	18.14
2006	—	9.85	22.31	20.19	19.99	15.73	43.88	20.68	8.09	20.41	20.41	—	20.41
2007	—	7.51	23.70	21.86	22.41	16.34	47.16	23.11	—	22.45	22.45	—	22.45
2008	—	11.32	27.23	28.24	26.91	23.60	55.12	26.84	—	27.55	27.55	—	27.55
2009	—	8.98	20.32	18.51	20.97	13.31	56.07	19.54	—	19.16	19.16	—	19.16
2010	—	9.49	25.19	22.70	24.30	16.87	58.80	23.59	—	23.10	23.10	—	23.10
2011	—	8.07	31.64	29.03	27.25	23.24	69.54	29.07	—	29.01	29.01	—	29.01
2012	—	6.32	33.04	29.91	20.16	24.17	72.11	29.80	—	29.79	29.79	—	29.79
2013	—	R 6.51	32.71	29.13	21.36	22.72	69.42	29.22	—	29.17	29.17	—	29.17
2014	—	R 6.93	33.16	28.92	23.44	21.11	69.44	28.49	—	28.58	28.58	—	28.58
2015	—	R 7.04	24.86	20.10	12.32	12.52	67.28	20.84	—	20.54	20.54	—	20.54
2016	—	R 6.98	21.62	17.38	12.19	10.08	65.78	18.58	—	18.00	18.00	—	18.00
2017	—	R 7.08	24.13	20.41	16.72	12.47	67.25	21.00	—	20.51	20.51	—	20.51
2018	—	R 7.42	27.04	24.23	17.64	16.10	72.37	24.09	—	R 23.91	R 23.91	—	R 23.91
2019	—	R 7.12	25.57	22.89	13.45	15.39	74.92	23.00	—	R 22.81	R 22.81	—	R 22.81
2020	—	R 7.45	22.34	18.94	12.19	10.84	75.34	19.74	—	19.14	19.14	—	19.14
2021	—	R 7.90	28.86	25.54	21.33	15.58	81.25	27.63	—	26.36	26.36	—	26.36
2022	—	R 8.96	36.02	37.37	21.80	27.61	97.37	34.44	—	35.50	35.50	—	35.50
2023	—	10.30	32.62	32.76	16.41	22.04	105.48	31.25	—	31.43	31.43	—	31.43
	Expenditures in million dollars												
1970	(s)	—	0.5	21.9	0.2	2.7	4.7	127.7	0.3	157.9	157.9	—	157.9
1975	(s)	—	1.4	59.2	0.5	9.7	7.3	242.9	2.0	323.1	323.1	—	323.1
1980	—	—	7.3	198.3	1.0	34.1	17.1	509.5	—	767.3	767.3	—	767.3
1985	—	—	4.6	163.8	1.4	25.2	19.7	454.3	(s)	669.0	669.5	—	669.5
1990	—	(s)	5.2	213.6	2.1	24.8	25.1	483.4	—	754.3	754.4	—	754.4
1995	—	0.1	3.3	283.4	1.0	31.3	25.3	562.8	—	907.0	907.1	—	907.1
2000	—	0.3	7.3	397.2	0.5	32.9	28.8	752.5	—	1,219.4	1,219.7	—	1,219.7
2005	—	(s)	4.4	792.1	1.6	86.7	36.9	1,066.2	—	1,987.9	1,987.9	—	1,987.9
2006	—	(s)	9.8	951.7	1.4	93.2	44.8	1,206.2	1.5	2,308.5	2,308.5	—	2,308.5
2007	—	(s)	8.3	1,139.6	1.0	95.1	49.7	1,374.2	—	2,667.9	2,668.0	—	2,668.0
2008	—	(s)	12.4	1,314.9	3.6	111.4	54.0	1,542.1	—	3,038.3	3,038.4	—	3,038.4
2009	—	(s)	7.7	R 797.3	0.8	59.8	49.4	1,140.6	—	R 2,055.5	R 2,055.5	—	R 2,055.5
2010	—	(s)	6.0	R 980.3	0.6	107.7	46.2	1,386.3	—	R 2,527.0	R 2,527.0	—	R 2,527.0
2011	—	(s)	7.0	R 1,329.7	0.6	145.5	53.4	1,681.2	—	R 3,217.3	R 3,217.3	—	R 3,217.3
2012	—	(s)	6.8	R 1,251.4	0.4	153.9	50.2	1,749.6	—	R 3,212.2	R 3,212.2	—	R 3,212.2
2013	—	(s)	6.1	R 1,304.3	0.3	110.4	51.6	1,750.3	—	R 3,223.0	R 3,223.0	—	R 3,223.0
2014	—	(s)	9.1	R 1,203.6	0.3	113.5	51.3	1,726.9	—	R 3,104.7	R 3,104.7	—	R 3,104.7
2015	—	(s)	7.2	R 773.5	0.2	60.6	52.7	1,293.5	—	R 2,187.7	R 2,187.7	—	R 2,187.7
2016	—	(s)	5.4	R 709.2	0.2	62.3	49.8	1,173.1	—	R 2,000.0	R 2,000.0	—	R 2,000.0
2017	—	(s)	5.3	R 867.7	0.3	92.0	47.4	1,322.5	—	R 2,335.3	R 2,335.3	—	R 2,335.3
2018	—	(s)	6.8	R 1,050.1	0.7	R 121.1	48.3	1,495.1	—	R 2,722.1	R 2,722.1	—	R 2,722.1
2019	—	(s)	6.0	R 984.8	0.5	R 102.5	48.1	1,430.0	—	R 2,571.9	R 2,571.9	—	R 2,571.9
2020	—	(s)	5.4	R 888.2	0.7	R 80.3	48.1	1,148.9	—	R 2,171.5	R 2,171.5	—	R 2,171.5
2021	—	(s)	6.9	R 1,096.2	0.3	R 117.3	52.2	1,763.7	—	R 3,036.7	R 3,036.7	—	R 3,036.7
2022	—	(s)	9.0	R 1,584.1	0.7	R 185.9	R 65.6	2,173.8	—	R 4,019.1	R 4,019.1	—	R 4,019.1
2023	—	(s)	7.7	1,356.0	0.4	186.9	50.7	1,933.3	—	3,535.1	3,535.1	—	3,535.1

[a] Transportation use of natural gas as vehicle fuel only.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET7. Electric power sector price and expenditure estimates, selected years, 1970-2023, Montana

Year	Coal	Natural gas [a]	Petroleum: Distillate fuel oil	Petroleum: Petroleum coke	Petroleum: Residual fuel oil	Petroleum: Total	Nuclear fuel	Biomass: Wood and waste [b]	Electricity imports [c]	Total energy [d]
	Prices in dollars per million Btu									
1970	0.19	0.27	0.36	—	0.33	0.33	—	0.65	—	0.23
1975	0.30	0.38	2.30	—	1.99	2.00	—	0.92	—	0.34
1980	0.44	3.87	5.01	—	—	5.01	—	1.74	—	0.72
1985	0.71	0.59	6.11	—	—	6.11	—	0.79	9.34	0.74
1990	0.67	1.45	5.43	—	—	5.43	—	—	8.37	0.69
1995	0.67	3.58	4.91	0.69	—	0.87	—	—	—	0.69
2000	0.92	5.10	7.99	0.43	—	0.65	—	—	16.78	0.91
2005	0.69	7.91	13.27	0.50	—	0.68	—	—	16.53	0.73
2006	0.87	6.36	15.33	0.90	—	1.18	—	—	17.32	0.92
2007	1.11	5.79	17.72	1.41	—	1.68	—	—	18.25	1.18
2008	1.34	9.26	20.63	1.56	—	1.79	—	—	18.28	1.44
2009	1.37	5.69	12.74	1.56	—	1.70	—	—	12.10	1.44
2010	1.41	5.24	15.01	1.49	—	1.69	—	—	13.31	1.48
2011	1.48	4.15	20.48	1.63	—	2.02	—	—	11.53	1.59
2012	1.61	4.06	24.39	1.99	—	2.22	—	—	9.51	1.74
2013	1.83	5.21	23.85	1.95	—	2.26	—	—	11.49	2.00
2014	1.82	6.25	22.73	1.96	—	2.72	—	—	13.31	2.01
2015	1.72	2.26	14.70	1.80	—	1.90	—	—	10.54	1.77
2016	1.66	1.77	11.37	1.58	—	1.73	—	—	8.74	1.69
2017	1.76	1.78	14.32	2.20	—	2.33	—	—	9.18	1.83
2018	2.01	1.30	18.21	2.65	—	2.95	—	—	10.74	2.04
2019	1.95	1.59	16.96	1.79	—	2.06	—	—	9.20	1.95
2020	2.27	1.74	12.72	1.59	—	1.75	—	1.80	8.38	2.22
2021	2.31	3.31	15.86	3.43	—	3.59	—	2.39	12.82	2.44
2022	2.13	4.13	23.36	5.25	—	5.57	—	2.69	19.84	2.48
2023	2.39	2.30	24.67	4.49	—	4.76	—	2.93	18.72	2.57
	Expenditures in million dollars									
1970	2.2	0.7	(s)	—	0.1	0.1	—	0.5	—	3.4
1975	5.2	0.5	(s)	—	0.7	0.7	—	0.1	—	6.4
1980	25.3	17.0	1.7	—	—	1.7	—	0.3	—	44.3
1985	67.1	0.3	1.4	—	—	1.4	—	0.5	2.3	71.5
1990	109.7	0.7	2.0	—	—	2.0	—	—	1.3	113.8
1995	110.3	1.4	1.6	5.1	—	6.7	—	—	—	118.4
2000	159.3	1.0	1.9	3.5	—	5.4	—	—	(s)	165.8
2005	135.0	1.7	1.4	3.6	—	5.0	—	—	6.2	147.8
2006	165.2	3.5	2.2	6.6	—	8.8	—	—	5.1	182.6
2007	223.6	6.0	2.1	10.0	—	12.2	—	—	5.9	247.7
2008	270.7	4.9	1.7	10.4	—	12.1	—	—	15.1	302.7
2009	235.2	3.8	1.3	12.0	—	13.3	—	—	8.9	261.2
2010	285.7	3.8	1.4	9.7	—	11.1	—	—	11.4	312.0
2011	243.4	19.7	3.3	12.3	—	15.6	—	—	1.6	280.4
2012	246.0	22.4	2.0	15.3	—	17.3	—	—	5.5	291.1
2013	296.1	38.7	2.6	14.7	—	17.3	—	—	2.3	354.4
2014	310.6	36.1	6.0	13.6	—	19.5	—	—	3.7	370.0
2015	298.1	15.1	1.0	15.0	—	16.0	—	—	4.9	334.1
2016	261.2	9.8	1.4	12.4	—	13.7	—	—	5.0	289.7
2017	266.6	8.6	1.2	17.4	—	18.7	—	—	8.2	302.1
2018	297.7	6.9	2.5	18.7	—	21.2	—	—	2.0	327.9
2019	303.4	9.0	2.3	13.1	—	15.3	—	—	2.2	330.0
2020	216.4	6.2	1.4	12.1	—	13.5	—	0.2	0.5	236.7
2021	273.7	19.6	1.6	26.3	—	27.9	—	0.3	2.3	323.9
2022	269.5	R 33.4	3.1	38.3	—	41.4	—	0.2	9.6	R 354.1
2023	302.6	24.8	2.6	35.2	—	37.7	—	0.2	9.6	375.0

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[c] Electricity imported from Canada and Mexico.
[d] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET1. Primary energy, electricity, and total energy price and expenditure estimates, selected years, 1970-2023, Nebraska

	Primary energy														Electric power sector [l,k,l]	Electricity [m]	Total energy [h,i,j]
	Coal				Petroleum								Biomass				
	Coking coal	Steam coal	Total	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Nuclear fuel	Wood and waste [g,h]	Total [h,i,j,k]			
Year	Prices in dollars per million Btu																
1970	—	0.33	0.33	0.50	0.95	1.59	0.75	3.03	0.48	1.77	2.12	—	0.91	1.21	0.30	5.12	1.72
1975	—	0.86	0.86	0.90	2.38	3.17	2.09	4.76	1.74	3.69	3.75	0.17	1.34	1.96	0.50	6.89	2.90
1980	—	1.27	1.27	2.40	6.24	5.88	6.47	10.06	3.21	7.62	8.29	0.44	3.06	4.19	1.00	11.76	6.52
1985	—	1.18	1.18	4.43	6.51	7.35	6.19	9.67	4.28	10.36	8.23	0.65	3.46	4.82	1.01	15.70	8.02
1990	—	0.78	0.78	3.93	7.51	9.34	6.03	9.49	2.22	7.16	8.42	0.61	3.56	4.34	0.73	16.33	8.41
1995	—	0.77	0.77	3.89	6.91	7.24	4.01	9.24	2.38	8.56	8.01	0.68	2.65	3.99	0.74	15.82	7.98
2000	—	0.59	0.59	5.41	9.82	10.49	6.76	12.10	3.88	10.13	10.83	0.61	3.66	5.08	0.67	15.55	10.07
2005	—	0.73	0.73	9.30	16.28	15.92	13.19	17.94	6.46	11.75	16.69	0.43	3.26	7.67	0.83	17.21	14.69
2006	—	0.84	0.84	9.31	18.54	17.94	14.70	20.52	7.71	16.33	19.19	0.47	2.86	8.57	0.87	17.79	15.94
2007	—	0.92	0.92	8.98	20.19	19.73	16.00	23.00	7.90	19.03	21.27	0.46	3.39	9.11	1.02	18.42	16.73
2008	—	0.95	0.95	9.64	26.10	22.32	22.56	25.48	12.28	22.02	25.34	0.48	4.14	10.41	0.98	19.27	18.65
2009	—	1.35	1.35	7.08	16.93	17.85	12.20	19.04	7.54	23.36	18.14	0.56	3.26	7.58	1.17	21.12	14.88
2010	—	1.44	1.44	6.87	21.08	18.92	16.78	22.79	9.21	R 26.18	R 21.79	0.65	3.67	R 8.92	1.25	22.03	R 16.76
2011	—	1.53	1.53	6.55	27.33	20.84	23.03	28.99	9.86	R 30.74	R 27.74	0.69	7.13	R 10.76	1.42	23.09	R 19.34
2012	—	1.57	1.57	5.44	27.74	16.59	22.97	29.59	12.73	R 31.36	R 28.09	0.77	7.20	R 11.07	1.47	24.54	R 19.91
2013	—	1.44	1.44	5.78	27.65	17.17	22.89	28.87	—	R 31.18	R 27.63	0.84	7.34	R 10.43	1.38	25.61	R 19.36
2014	—	1.43	1.43	6.52	R 26.76	20.89	20.59	27.60	15.88	R 31.84	R 26.90	0.77	R 7.41	R 10.21	1.30	25.91	R 19.27
2015	—	1.37	1.37	5.55	18.26	12.19	11.88	19.81	—	R 28.37	R 18.91	0.72	R 5.07	R 7.63	1.19	26.10	R 15.56
2016	—	1.37	1.37	R 4.81	15.37	11.03	9.72	17.62	—	R 26.19	R 16.47	0.68	R 3.76	R 6.96	1.19	26.52	R 14.33
2017	—	1.40	1.40	R 5.50	17.87	14.41	12.10	19.78	9.75	24.96	18.73	0.76	R 3.72	8.17	1.29	26.60	15.55
2018	—	1.29	1.29	5.46	21.60	15.42	15.64	21.93	11.07	30.09	21.64	0.75	R 4.27	8.95	1.25	26.45	16.62
2019	—	1.24	1.24	5.01	20.45	13.17	14.37	20.90	11.27	R 30.80	20.49	0.69	R 4.43	R 8.57	1.19	26.62	16.05
2020	—	1.25	1.25	4.66	16.33	12.15	9.10	17.15	8.34	R 26.54	16.73	0.65	R 3.00	7.33	1.16	26.30	14.27
2021	—	1.19	1.19	R 6.61	22.00	19.36	14.48	24.22	12.47	R 32.40	23.07	0.61	R 3.69	R 9.98	1.56	25.90	R 17.53
2022	—	1.30	1.30	R 9.07	34.02	20.46	25.89	31.90	19.93	R 43.22	32.71	0.64	R 5.01	R 14.02	R 1.53	25.89	R 22.69
2023	—	1.33	1.33	7.62	28.45	16.73	20.75	28.29	17.90	37.69	28.08	0.66	4.79	12.15	1.29	26.80	20.47
	Expenditures in million dollars																
1970	—	9.8	9.8	104.1	41.4	34.1	7.3	294.4	2.3	26.2	405.7	—	0.3	519.8	-22.3	170.3	667.8
1975	—	28.4	28.4	184.3	117.9	68.1	19.3	516.3	11.2	44.7	777.6	11.0	0.7	1,001.9	-68.1	271.2	1,204.9
1980	—	119.3	119.3	354.1	332.7	96.7	56.2	1,008.9	4.3	67.4	1,566.2	27.7	3.0	2,070.4	-164.7	550.6	2,456.3
1985	—	135.8	135.8	523.7	470.8	69.0	45.9	901.4	1.7	68.5	1,557.2	28.7	4.3	2,265.0	-158.2	841.2	2,948.1
1990	—	110.1	110.1	415.4	562.3	98.3	50.0	920.2	3.6	91.9	1,726.3	48.8	5.0	2,329.0	-160.7	995.7	3,163.9
1995	—	138.8	138.8	506.6	587.1	79.6	22.7	928.0	1.8	78.1	1,697.3	53.5	3.8	2,400.1	-189.5	1,127.9	3,338.5
2000	—	122.8	122.8	673.4	853.2	146.6	47.2	1,287.0	3.5	93.1	2,430.5	55.1	4.8	3,286.7	-196.3	1,291.8	4,382.1
2005	—	166.7	166.7	1,073.5	1,543.4	219.1	69.9	1,876.5	5.9	127.7	3,842.5	39.2	7.5	5,129.5	-265.9	1,584.4	6,448.0
2006	—	191.5	191.5	1,180.0	1,778.6	243.4	88.4	2,145.1	3.8	158.5	4,417.7	44.4	8.5	5,842.1	-281.0	1,655.6	7,216.7
2007	—	200.5	200.5	1,327.1	2,013.9	254.4	87.8	2,404.7	3.5	166.7	4,931.0	53.2	11.4	6,523.9	-342.6	1,775.3	7,956.6
2008	—	222.6	222.6	1,565.8	2,470.2	290.9	113.6	2,630.6	6.3	173.8	5,685.3	47.1	14.1	7,535.0	-327.1	1,895.1	9,103.0
2009	—	338.0	338.0	1,119.4	R 1,577.8	242.0	48.2	1,925.3	0.4	223.4	R 4,017.1	55.6	11.8	R 5,541.8	-402.9	2,050.2	R 7,189.2
2010	—	366.3	366.3	1,112.5	2,476.9	234.7	103.2	2,351.2	0.1	R 274.1	R 5,440.1	74.8	14.2	R 7,007.8	-452.9	2,244.2	R 8,799.1
2011	—	437.9	437.9	1,073.9	R 3,071.7	235.9	133.1	2,896.1	0.1	R 290.4	R 6,627.3	50.2	13.1	R 8,202.5	-487.9	2,338.2	R 10,052.8
2012	—	427.6	427.6	837.2	R 3,172.5	165.0	133.5	2,968.0	0.1	R 314.5	R 6,753.6	46.5	12.2	R 8,077.2	-475.9	2,581.1	R 10,182.3
2013	—	423.1	423.1	R 994.6	R 3,037.7	214.0	143.3	2,962.5	—	R 279.6	R 6,637.1	60.0	15.1	R 8,129.9	-483.0	2,682.6	R 10,329.5
2014	—	395.5	395.5	1,124.9	R 2,954.5	235.4	122.9	2,950.6	0.1	R 290.9	R 6,554.5	81.0	R 15.4	R 8,171.4	-475.2	2,671.4	R 10,367.5
2015	—	365.9	365.9	R 903.9	R 2,038.3	116.0	84.1	2,116.1	—	R 268.1	R 4,622.6	77.2	R 9.8	R 5,979.4	-427.4	2,626.8	R 8,178.8
2016	—	329.3	329.3	R 799.9	R 1,708.4	97.9	56.9	1,924.8	—	R 231.7	R 4,019.7	66.7	R 8.8	R 5,224.5	-386.0	2,732.2	R 7,570.7
2017	—	326.7	326.7	R 926.8	R 1,989.6	117.9	76.8	2,151.3	0.1	241.2	R 4,577.0	54.6	R 8.1	R 5,893.4	-376.1	2,755.8	R 8,273.0
2018	—	339.7	339.7	R 1,022.3	R 2,480.0	152.0	105.8	2,402.3	0.4	267.9	R 5,408.5	43.9	R 11.8	6,826.5	-392.6	2,791.7	R 9,225.6
2019	—	299.3	299.3	R 959.2	R 2,408.0	149.3	94.6	2,293.1	0.2	R 251.4	R 5,196.5	49.8	R 12.6	R 6,517.4	-368.3	2,759.2	R 8,908.3
2020	—	266.9	266.9	R 868.3	R 1,854.1	125.7	44.8	1,722.0	0.2	R 242.8	R 3,989.5	41.9	R 7.9	R 5,174.5	-319.2	2,797.0	R 7,652.3
2021	—	258.4	258.4	R 1,237.7	R 2,501.8	191.6	R 87.8	2,604.9	0.3	R 297.6	R 5,684.0	43.9	R 10.2	R 7,234.1	-444.3	2,857.9	R 9,647.7
2022	—	290.6	290.6	R 1,759.0	R 3,886.8	199.8	R 158.6	3,419.0	0.5	R 402.6	R 8,067.3	37.7	R 12.8	R 10,167.5	R -429.6	2,989.2	R 12,727.0
2023	—	260.8	260.8	1,534.7	3,186.6	143.1	132.5	3,056.5	0.4	317.9	6,837.0	47.4	12.4	8,692.2	-351.7	3,069.6	11,410.1

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[l] Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
[m] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET2. Total end-use energy price and expenditure estimates, selected years, 1970-2023, Nebraska

Year	Primary energy											Electricity [k]	Total energy [h,i,j]
			Petroleum							Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g,h]	Total [h,i,j]		
	Prices in dollars per million Btu												
1970	0.23	0.57	0.96	1.59	0.75	3.03	0.48	1.77	2.13	0.91	1.40	5.12	1.72
1975	0.82	0.96	2.40	3.17	2.09	4.76	1.74	3.69	3.81	1.34	2.48	6.89	2.90
1980	1.72	2.45	6.24	5.88	6.47	10.06	3.18	7.62	8.33	3.06	5.78	11.76	6.52
1985	2.51	4.43	6.52	7.35	6.19	9.67	4.28	10.36	8.23	3.46	6.71	15.70	8.02
1990	1.48	4.00	7.51	9.34	6.03	9.49	2.22	7.16	8.42	3.56	6.88	16.33	8.41
1995	1.43	3.94	6.92	7.24	4.01	9.24	2.38	8.56	8.01	2.90	6.37	15.82	7.98
2000	1.39	5.45	9.84	10.49	6.76	12.10	3.93	10.13	10.85	3.92	8.78	15.55	10.07
2005	1.28	9.38	16.28	15.92	13.19	17.94	6.62	11.75	16.70	3.98	14.02	17.21	14.69
2006	1.89	9.45	18.55	17.94	14.70	20.52	7.75	16.33	19.19	3.37	15.46	17.79	15.94
2007	2.10	8.99	20.21	19.73	16.00	23.00	8.55	19.03	21.28	3.60	16.30	18.42	16.73
2008	2.26	9.67	26.12	22.32	22.56	25.48	12.35	22.02	25.35	4.45	18.50	19.27	18.65
2009	2.27	7.10	16.94	17.85	12.20	19.04	7.94	23.36	18.14	3.48	13.31	21.12	14.88
2010	1.87	6.86	21.09	18.92	16.78	22.79	11.60	R 26.18	R 21.79	3.97	R 15.49	22.03	R 16.76
2011	1.85	6.57	27.34	20.84	23.03	28.99	—	R 30.74	R 27.75	9.67	R 18.44	23.09	R 19.34
2012	1.87	5.53	27.75	16.59	22.97	29.59	16.83	R 31.36	R 28.09	9.79	R 18.71	24.54	R 19.91
2013	1.80	5.80	27.68	17.17	22.89	28.87	—	R 31.18	R 27.65	9.52	R 17.83	25.61	R 19.36
2014	1.82	6.54	26.79	20.89	20.59	27.60	15.88	R 31.84	R 26.91	R 9.50	R 17.70	25.91	R 19.27
2015	1.71	5.60	18.26	12.19	11.88	19.81	—	R 28.37	R 18.91	R 6.51	R 13.06	26.10	R 15.56
2016	1.62	4.88	15.37	11.03	9.72	17.62	—	R 26.19	R 16.48	R 4.47	R 11.37	26.52	R 14.33
2017	1.66	5.56	17.87	14.41	12.10	19.78	9.75	24.96	18.74	R 4.65	12.87	26.60	15.55
2018	1.54	R 5.57	21.61	15.42	15.64	21.93	11.07	30.09	21.64	R 5.22	14.32	26.45	16.62
2019	1.38	5.16	20.46	13.17	14.37	20.90	11.27	R 30.80	20.50	R 5.22	13.62	26.62	16.05
2020	1.39	R 4.82	16.33	12.15	9.10	17.15	8.34	R 26.54	16.74	R 3.59	11.30	26.30	14.27
2021	1.42	R 6.20	22.04	19.36	14.48	24.22	12.47	R 32.40	23.09	R 4.31	15.44	25.90	R 17.53
2022	1.43	R 9.12	34.06	20.46	25.89	31.90	19.93	R 43.22	R 32.72	R 6.13	R 21.86	25.89	R 22.69
2023	1.34	7.99	28.48	16.73	20.75	28.29	17.90	37.69	28.10	5.74	18.83	26.80	20.47
	Expenditures in million dollars												
1970	1.3	91.3	40.9	34.1	7.3	294.4	1.8	26.2	404.7	0.3	497.6	170.3	667.8
1975	5.0	161.0	114.6	68.1	19.3	516.3	4.1	44.7	767.1	0.7	933.8	271.2	1,204.9
1980	9.4	333.7	329.6	96.7	56.2	1,008.9	0.8	67.4	1,559.6	3.0	1,905.7	550.6	2,456.3
1985	12.8	519.3	468.7	69.0	45.9	901.4	1.7	68.5	1,555.1	4.3	2,106.8	841.2	2,948.1
1990	6.8	408.1	561.1	98.3	50.0	920.2	3.6	91.9	1,725.0	5.0	2,168.3	995.7	3,163.9
1995	9.6	501.5	585.7	79.6	22.7	928.0	1.8	78.1	1,695.8	3.7	2,210.6	1,127.9	3,338.5
2000	11.6	647.7	849.4	146.6	47.2	1,287.0	3.0	93.1	2,426.3	4.8	3,090.3	1,291.8	4,382.1
2005	10.1	1,007.7	1,540.0	219.1	69.9	1,876.5	5.2	127.7	3,838.4	7.3	4,863.5	1,584.4	6,448.0
2006	15.6	1,123.1	1,775.0	243.4	88.4	2,145.1	3.7	158.5	4,414.1	8.3	5,561.1	1,655.6	7,216.7
2007	17.2	1,229.3	2,008.8	254.4	87.8	2,404.7	2.5	166.7	4,924.9	9.9	6,181.3	1,775.3	7,956.6
2008	17.6	1,501.2	2,461.3	290.9	113.6	2,630.6	6.3	173.8	5,676.4	12.5	7,207.8	1,895.1	9,103.0
2009	16.5	1,098.5	R 1,574.4	242.0	48.2	1,925.3	0.3	223.4	R 4,013.6	10.4	R 5,139.0	2,050.2	R 7,189.2
2010	23.8	1,084.3	R 2,471.2	234.7	103.2	2,351.2	(s)	R 274.1	R 5,434.4	12.4	R 6,554.9	2,244.2	R 8,799.1
2011	35.2	1,049.7	R 3,062.6	235.9	133.1	2,896.1	—	R 290.4	R 6,618.2	11.6	R 7,714.6	2,338.2	R 10,052.8
2012	35.4	807.0	R 3,166.9	165.0	133.5	2,968.0	(s)	R 314.5	R 6,747.9	10.9	R 7,601.3	2,581.1	R 10,182.3
2013	36.5	R 971.7	R 3,025.6	214.0	143.3	2,962.5	—	R 279.6	R 6,625.0	13.7	R 7,646.9	2,682.6	R 10,329.5
2014	40.1	1,100.4	R 2,942.1	235.4	122.9	2,950.6	0.1	R 290.9	R 6,542.0	R 13.6	R 7,696.2	2,671.4	R 10,367.5
2015	36.2	R 887.0	R 2,036.6	116.0	84.1	2,116.1	—	R 268.1	R 4,620.9	R 7.9	R 5,552.0	2,626.8	R 8,178.8
2016	32.4	R 780.8	R 1,707.4	97.9	56.9	1,924.8	—	R 231.7	R 4,018.7	R 6.6	R 4,838.5	2,732.2	R 7,570.7
2017	34.8	R 900.8	R 1,988.4	117.9	76.8	2,151.3	0.1	241.2	R 4,575.7	R 6.0	R 5,517.3	2,755.8	R 8,273.0
2018	31.4	R 987.6	R 2,476.6	152.0	105.8	2,402.3	0.4	267.9	R 5,405.1	R 9.8	R 6,433.9	2,791.7	R 9,225.6
2019	24.2	R 921.1	R 2,404.4	149.3	94.6	2,293.1	0.2	R 251.4	R 5,193.0	R 10.8	R 6,149.1	2,759.2	R 8,908.3
2020	21.1	R 841.0	R 1,851.4	125.7	44.8	1,722.0	0.2	R 242.8	R 3,986.8	R 6.3	R 4,855.3	2,797.0	R 7,652.3
2021	24.1	R 1,086.7	R 2,488.7	191.6	R 87.8	2,604.9	0.3	R 297.6	R 5,670.9	R 8.0	R 6,789.8	2,857.9	R 9,647.7
2022	24.4	R 1,646.6	R 3,875.8	199.8	R 158.6	3,419.0	0.5	R 402.6	R 8,056.3	R 10.6	R 9,737.9	2,989.2	R 12,727.0
2023	15.9	1,489.9	3,174.5	143.1	132.5	3,056.5	0.4	317.9	6,824.9	9.8	8,340.5	3,069.6	11,410.1

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. · Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2023, Nebraska

Year	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
	Prices in dollars per million Btu									
1970	1.08	0.84	1.19	1.75	1.39	1.68	0.61	1.05	6.21	1.83
1975	2.16	1.29	2.62	3.57	2.74	3.40	1.20	1.78	8.13	2.96
1980	3.60	2.78	6.85	6.82	7.55	6.84	3.06	3.36	13.22	5.81
1985	2.76	5.10	7.92	7.12	7.81	7.40	3.46	5.34	17.30	8.72
1990	2.42	4.68	6.74	7.79	8.28	7.57	3.56	4.97	18.25	9.33
1995	2.44	4.94	5.92	6.45	4.97	6.40	2.90	5.05	18.68	9.66
2000	—	6.40	9.03	9.43	9.18	9.39	4.41	6.83	19.13	11.20
2005	2.52	10.58	15.23	14.41	15.41	14.47	6.91	11.16	20.94	15.11
2006	3.00	11.16	17.46	15.95	19.59	16.10	7.96	11.86	21.72	16.01
2007	2.72	10.95	19.56	17.97	22.22	18.06	8.79	12.02	22.25	16.24
2008	—	10.99	23.95	20.93	23.36	21.03	10.83	12.81	23.06	16.75
2009	—	9.23	16.19	16.32	23.58	16.33	8.13	10.42	24.97	16.19
2010	—	8.91	19.55	18.45	25.05	18.48	9.60	10.57	26.20	16.97
2011	—	8.74	27.23	19.87	28.35	20.00	11.54	10.62	27.32	17.46
2012	—	8.52	27.14	16.61	29.74	16.80	12.85	9.87	29.44	18.91
2013	—	8.10	28.15	16.74	30.40	16.92	12.58	9.44	30.23	17.81
2014	—	8.42	27.21	21.36	32.72	R 21.46	12.27	10.26	30.48	18.29
2015	—	8.38	17.82	12.97	16.89	13.03	8.45	9.06	31.07	18.45
2016	—	7.57	15.42	11.75	13.46	11.80	7.22	8.13	31.77	18.67
2017	—	8.49	17.56	14.97	16.84	15.02	8.08	9.22	32.15	19.39
2018	—	8.06	19.15	15.44	25.95	15.49	8.94	9.01	31.37	18.04
2019	—	7.39	17.95	13.82	22.72	13.86	8.60	8.36	31.55	17.57
2020	—	7.54	14.53	12.98	14.75	12.99	7.11	8.30	31.64	R 18.45
2021	—	9.02	19.11	19.92	23.30	19.91	R 8.53	10.52	31.51	R 19.74
2022	—	12.14	27.90	21.53	40.47	21.65	R 13.20	13.32	31.63	R 21.33
2023	—	12.42	26.20	18.76	36.15	18.93	12.07	13.09	32.83	21.91
	Expenditures in million dollars									
1970	0.4	49.6	1.4	28.5	3.0	32.8	0.1	83.0	87.0	170.0
1975	0.1	68.9	2.6	47.1	5.8	55.5	0.2	124.7	130.3	255.0
1980	0.3	133.5	14.4	40.2	0.4	55.0	2.9	191.7	249.1	440.7
1985	0.2	233.9	16.3	29.8	1.8	47.9	4.1	286.1	365.5	651.6
1990	(s)	190.9	7.7	32.0	0.2	39.8	4.5	235.3	423.4	658.7
1995	0.1	217.8	3.0	31.7	0.1	34.9	3.2	256.0	484.1	740.0
2000	—	273.3	5.8	68.9	0.4	75.2	3.9	352.4	544.6	897.0
2005	(s)	405.4	7.8	102.3	0.6	110.7	5.0	521.2	665.0	1,186.1
2006	(s)	405.6	10.3	96.3	0.3	106.9	5.1	517.6	688.8	1,206.5
2007	(s)	430.3	6.0	126.3	0.8	133.1	6.2	569.6	740.0	1,309.6
2008	—	470.6	7.6	196.2	0.3	204.1	8.5	683.3	767.6	1,450.9
2009	—	374.9	3.3	135.4	0.4	139.1	6.7	520.7	820.3	1,341.0
2010	—	359.2	3.1	154.4	0.5	157.9	8.4	525.5	903.4	1,428.9
2011	—	351.1	3.8	155.5	0.1	159.3	9.8	520.3	927.3	1,447.6
2012	—	271.6	2.8	96.5	0.1	99.3	9.1	380.0	972.3	1,352.4
2013	—	345.9	3.2	119.6	0.1	122.9	11.7	480.5	1,037.8	1,518.2
2014	—	369.6	2.8	149.1	0.2	152.1	11.5	533.2	1,043.0	1,576.3
2015	—	307.1	1.5	81.1	(s)	82.6	6.4	396.2	1,010.5	1,406.7
2016	—	264.7	1.2	65.0	0.1	66.2	5.1	336.1	1,055.6	R 1,391.7
2017	—	307.0	1.5	68.4	(s)	69.9	4.7	381.5	1,060.4	1,442.0
2018	—	361.9	1.5	101.0	0.1	102.6	7.9	R 472.5	1,114.4	1,586.9
2019	—	328.9	1.3	108.0	0.1	109.4	8.4	446.7	1,109.7	R 1,556.4
2020	—	297.5	0.9	84.0	(s)	84.9	R 4.3	R 386.7	1,135.3	R 1,522.0
2021	—	348.9	1.8	123.3	0.1	125.2	R 5.9	R 480.0	1,128.0	R 1,608.0
2022	—	505.6	2.8	125.2	0.1	128.1	R 8.2	R 641.9	1,185.5	R 1,827.4
2023	—	494.4	2.5	85.8	0.2	88.5	7.3	590.2	1,195.2	1,785.4

[a] Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2023, Nebraska

Year	Primary energy										Electricity [j]	Total energy [g,h,i]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f,g]	Total [g,h,i]		
	Prices in dollars per million Btu											
1970	0.16	0.52	1.03	1.07	0.79	3.03	0.50	1.09	0.60	0.58	4.87	1.37
1975	0.81	1.00	2.45	2.38	2.39	4.76	1.75	2.61	1.20	1.14	6.96	2.36
1980	1.69	2.33	6.49	4.96	5.17	10.06	3.22	7.06	3.06	2.59	12.86	5.00
1985	2.51	4.29	6.00	6.72	7.81	9.67	—	6.56	3.46	4.59	16.78	8.27
1990	1.48	3.92	5.50	9.28	8.28	9.49	2.22	6.94	3.56	4.15	17.21	8.85
1995	1.42	4.05	4.30	7.70	4.97	9.24	2.38	5.57	2.90	4.09	16.46	8.84
2000	—	5.44	7.05	10.95	9.18	12.10	3.93	9.96	3.24	5.87	16.27	10.84
2005	1.28	9.36	13.79	16.24	15.41	17.94	6.63	14.26	4.75	9.65	17.52	13.59
2006	1.89	9.50	15.93	18.03	19.59	20.52	7.75	16.43	4.83	9.94	18.15	14.03
2007	2.10	9.00	17.50	19.47	22.22	23.00	—	19.45	5.39	9.64	18.73	14.11
2008	—	9.51	23.92	23.19	23.36	25.48	12.35	23.05	6.47	10.56	19.59	14.68
2009	—	7.35	14.07	18.55	23.58	19.04	7.94	15.85	5.31	7.89	21.49	14.40
2010	—	7.05	17.83	19.51	25.05	22.79	11.60	18.61	5.73	7.79	22.38	14.86
2011	—	6.62	24.22	22.83	28.35	28.99	—	24.78	6.24	7.70	23.40	15.12
2012	—	6.08	24.78	16.80	29.74	29.59	16.83	23.61	5.16	7.32	24.57	16.24
2013	—	6.26	24.42	17.90	30.40	28.87	—	R 22.99	5.56	7.64	25.21	15.83
2014	—	6.98	22.76	20.10	32.72	27.60	15.88	22.64	R 5.58	8.22	25.58	16.33
2015	—	6.06	13.46	11.25	16.89	19.81	—	16.01	R 4.13	7.27	25.42	15.80
2016	—	5.15	11.26	10.46	13.46	17.62	—	14.06	R 2.96	6.29	25.79	15.82
2017	—	6.00	13.69	14.34	16.84	19.78	9.75	16.45	R 2.84	7.20	25.93	16.07
2018	—	5.92	17.09	15.76	25.95	21.93	11.07	18.60	R 3.76	7.39	25.87	15.38
2019	—	5.45	15.62	12.02	22.72	20.90	11.27	R 16.77	R 4.21	6.82	25.94	14.97
2020	—	5.12	10.55	11.20	14.75	17.15	8.34	12.87	R 3.67	6.23	26.05	14.92
2021	—	6.29	16.81	18.32	23.30	24.22	12.47	20.03	R 3.87	8.02	25.81	15.97
2022	—	9.76	28.28	19.43	40.47	31.90	19.93	27.27	R 4.43	R 12.00	25.85	18.23
2023	—	9.60	21.53	15.09	36.15	28.29	17.90	23.19	4.56	11.05	25.67	18.12
	Expenditures in million dollars											
1970	0.1	24.7	1.2	1.4	0.3	1.7	0.8	5.4	(s)	30.2	58.3	88.4
1975	0.1	42.9	2.5	2.4	1.0	3.0	1.7	10.6	(s)	53.6	86.9	140.5
1980	0.5	99.1	6.8	2.3	0.6	7.9	0.5	18.0	0.1	117.7	178.5	296.2
1985	0.5	166.0	29.0	2.2	0.5	8.0	—	39.8	0.1	206.5	327.2	533.7
1990	0.1	140.7	9.2	3.0	1.1	7.7	0.3	21.3	0.5	162.8	378.7	541.5
1995	0.2	158.7	4.0	2.9	0.1	1.0	(s)	8.1	0.4	167.5	420.9	588.4
2000	—	157.8	8.1	6.2	0.1	17.6	0.2	32.2	0.7	190.7	484.3	675.0
2005	0.1	258.9	16.5	9.5	0.4	2.4	1.0	29.7	1.0	289.8	528.8	818.6
2006	0.2	270.2	17.5	4.7	0.3	11.7	2.0	36.1	1.0	307.6	557.8	865.4
2007	0.2	275.4	19.1	9.8	0.2	13.6	—	42.8	1.2	319.6	600.5	920.1
2008	—	334.9	40.8	11.7	0.1	13.7	3.3	69.7	1.6	406.1	631.2	1,037.3
2009	—	236.5	18.4	7.9	0.1	8.9	0.3	35.7	1.1	273.3	682.8	956.1
2010	—	226.5	25.3	13.5	0.1	2.6	(s)	41.5	1.3	269.2	727.8	997.0
2011	—	214.8	27.6	12.3	0.1	11.6	—	51.6	1.5	267.9	729.8	997.8
2012	—	164.1	29.4	9.0	(s)	11.2	(s)	49.6	1.5	215.2	773.9	989.1
2013	—	209.1	R 45.8	15.6	(s)	8.6	—	R 70.0	1.6	R 280.7	807.5	R 1,088.2
2014	—	235.6	R 43.1	14.8	0.1	9.1	0.1	R 67.2	1.7	R 304.5	831.3	1,135.7
2015	—	188.6	R 25.3	6.4	(s)	39.0	—	R 70.7	R 1.1	R 260.3	807.4	1,067.8
2016	—	147.0	21.8	4.5	(s)	34.4	—	60.7	R 1.0	208.7	818.9	1,027.6
2017	—	184.8	R 25.0	6.6	(s)	35.9	0.1	R 67.6	R 0.9	253.3	822.1	1,075.4
2018	—	222.0	R 38.7	13.6	(s)	40.4	0.4	R 93.2	R 1.2	R 316.3	843.3	R 1,159.6
2019	—	206.3	R 38.2	11.9	(s)	38.6	0.2	R 89.0	R 1.3	296.6	836.9	R 1,133.4
2020	—	172.5	22.9	19.4	(s)	32.0	0.2	74.4	1.0	R 248.0	808.0	1,055.9
2021	—	212.9	28.4	25.0	(s)	45.9	0.3	99.6	R 1.3	R 313.8	815.5	R 1,129.3
2022	—	337.2	49.6	27.4	0.1	65.1	0.5	R 142.7	1.5	481.3	848.4	1,329.7
2023	—	347.4	37.1	12.7	0.1	54.2	0.4	104.5	1.5	453.4	986.1	1,439.5

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[g] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[j] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: Expenditure totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2023, Nebraska

	Primary energy													
	Coal				Petroleum						Biomass			
	Coking coal	Steam coal	Total	Natural gas [a]	Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e,f]	Total [f,g,h]	Electricity [i]	Total energy [f,g,h]
Year	Prices in dollars per million Btu													
1970	—	0.16	0.16	0.32	0.73	1.13	3.03	0.40	1.17	1.27	1.44	0.69	3.42	0.88
1975	—	0.81	0.81	0.69	2.25	2.58	4.76	1.74	3.09	2.96	1.44	1.49	4.96	1.78
1980	—	1.69	1.69	2.21	4.94	5.41	10.06	3.13	4.80	5.95	3.00	3.89	8.71	4.52
1985	—	2.51	2.51	3.67	6.25	7.55	9.67	4.28	6.76	7.02	3.00	5.38	11.47	6.23
1990	—	1.48	1.48	3.02	5.87	10.33	9.49	2.22	4.18	6.30	—	5.00	12.28	6.20
1995	—	1.42	1.42	2.85	4.87	7.83	9.24	2.38	4.50	5.53	—	4.01	11.26	5.26
2000	—	1.39	1.39	4.60	7.97	11.65	12.10	3.93	5.75	8.39	1.50	5.98	10.59	6.91
2005	—	1.28	1.28	8.30	14.46	17.59	17.94	6.63	6.28	13.81	1.46	10.51	12.98	11.07
2006	—	1.89	1.89	8.27	16.52	19.50	20.52	7.75	9.32	16.36	1.35	11.33	13.35	11.76
2007	—	2.10	2.10	7.83	18.59	21.94	23.00	8.55	10.57	18.18	1.35	11.51	14.00	11.99
2008	—	2.26	2.26	9.02	24.88	26.23	25.48	12.35	11.82	23.26	1.35	13.40	15.12	13.74
2009	—	2.27	2.27	5.95	14.83	20.33	19.04	7.94	16.83	16.10	1.35	8.82	16.86	10.41
2010	—	1.87	1.87	5.83	18.77	19.94	22.79	—	R 20.65	R 19.61	1.35	R 9.29	17.60	R 10.95
2011	—	1.85	1.85	5.55	25.38	23.01	28.99	—	R 24.00	R 25.22	2.41	R 10.23	18.85	R 11.96
2012	—	1.87	1.87	4.26	25.58	16.50	29.59	—	R 25.47	R 25.12	2.41	R 10.35	20.54	R 12.49
2013	—	1.80	1.80	4.55	24.98	17.69	28.87	—	R 24.70	R 24.43	1.86	R 9.67	21.81	R 12.09
2014	—	1.82	1.82	5.46	23.31	20.07	27.60	15.88	R 25.24	R 23.65	2.27	R 9.65	21.90	R 12.01
2015	—	1.71	1.71	4.31	14.97	10.51	19.81	—	R 21.29	R 16.32	2.19	R 7.14	22.25	R 10.05
2016	—	1.62	1.62	3.82	12.04	9.66	17.62	—	R 18.85	R 13.51	1.23	R 6.08	22.54	R 9.26
2017	—	1.66	1.66	4.28	14.56	13.56	19.78	—	18.51	15.65	1.06	6.97	22.45	10.01
2018	—	1.54	1.54	4.23	17.67	14.97	21.93	—	23.27	18.96	1.04	7.54	22.27	10.42
2019	—	1.38	1.38	3.99	16.65	11.20	20.90	—	R 23.14	R 17.80	1.39	R 7.19	22.43	10.10
2020	—	1.39	1.39	3.64	12.27	10.37	17.15	—	R 19.84	R 14.00	1.13	6.11	21.63	9.20
2021	—	1.42	1.42	5.04	17.34	17.44	24.22	—	R 25.34	19.47	0.99	8.22	21.29	10.99
2022	—	1.43	1.43	7.59	28.37	18.49	31.90	—	R 35.06	R 29.35	R 1.19	R 12.37	21.14	R 14.28
2023	—	1.34	1.34	5.79	23.36	14.11	28.29	—	29.72	24.25	1.33	10.02	22.37	12.44
	Expenditures in million dollars													
1970	—	0.8	0.8	17.0	14.0	3.4	21.0	0.3	10.9	49.5	0.1	67.5	25.0	92.4
1975	—	4.8	4.8	49.2	42.3	16.5	41.1	0.8	22.0	122.7	0.4	177.2	54.0	231.1
1980	—	8.7	8.7	101.1	98.1	51.0	77.7	0.3	26.3	253.5	(s)	363.3	123.0	486.3
1985	—	12.2	12.2	119.4	162.3	35.1	70.8	1.7	26.4	296.3	(s)	429.1	148.5	577.6
1990	—	6.6	6.6	76.5	164.4	60.6	47.4	3.3	42.3	317.9	—	402.2	193.5	595.7
1995	—	9.4	9.4	124.9	134.6	43.9	36.5	1.8	29.8	246.6	—	380.8	222.9	603.7
2000	—	11.6	11.6	216.3	210.6	69.8	39.9	2.8	38.1	361.3	0.2	589.4	262.8	852.2
2005	—	10.0	10.0	343.1	439.2	105.4	116.5	4.3	53.6	718.9	1.3	1,073.4	390.6	1,464.0
2006	—	15.4	15.4	447.0	495.3	139.3	136.1	1.7	69.5	841.8	2.2	1,306.5	409.0	1,715.4
2007	—	17.0	17.0	523.3	657.4	114.4	85.0	2.5	68.2	927.5	2.4	1,470.2	434.8	1,905.1
2008	—	17.6	17.6	695.5	840.4	79.7	59.8	3.0	68.6	1,051.6	2.4	1,767.1	496.4	2,263.5
2009	—	16.5	16.5	486.9	384.8	96.6	47.0	(s)	129.0	657.4	2.6	1,163.4	547.1	1,710.6
2010	—	23.8	23.8	498.3	454.7	66.3	73.7	—	R 179.9	R 774.5	2.8	R 1,299.4	613.0	R 1,912.4
2011	—	35.2	35.2	483.2	604.8	67.5	95.3	—	R 188.5	R 956.0	0.3	R 1,474.6	681.0	R 2,155.7
2012	—	35.4	35.4	370.8	812.4	59.1	85.7	—	R 218.3	R 1,175.5	0.3	R 1,582.0	834.9	R 2,416.9
2013	—	36.5	36.5	416.0	696.8	78.1	80.4	—	R 185.7	R 1,041.0	0.4	R 1,493.9	837.4	R 2,331.3
2014	—	40.1	40.1	494.3	604.9	70.6	65.9	(s)	R 192.0	R 933.4	0.4	R 1,468.2	797.1	R 2,265.3
2015	—	36.2	36.2	390.4	394.7	28.0	70.5	—	R 166.3	R 659.5	0.4	R 1,086.4	808.8	R 1,895.3
2016	—	32.4	32.4	367.7	339.2	27.9	57.6	—	R 137.1	R 561.8	0.6	R 962.5	857.7	R 1,820.2
2017	—	34.8	34.8	406.4	407.4	42.6	65.0	—	152.2	667.2	0.4	1,108.9	873.2	1,982.1
2018	—	31.4	31.4	401.0	450.9	34.8	73.2	—	174.2	R 733.1	0.7	1,166.2	834.0	2,000.1
2019	—	24.2	24.2	383.0	442.7	26.4	66.5	—	R 156.6	R 692.2	1.1	R 1,100.5	812.6	R 1,913.2
2020	—	21.1	21.1	368.1	344.9	22.1	55.3	—	R 156.1	R 578.4	1.0	R 968.6	853.7	R 1,822.4
2021	—	24.1	24.1	516.5	462.9	35.0	76.6	—	199.1	R 773.7	0.8	R 1,315.2	914.4	R 2,229.6
2022	—	24.4	24.4	787.2	765.6	46.3	106.7	—	R 277.4	R 1,195.9	0.9	R 2,008.5	955.2	R 2,963.7
2023	—	15.9	15.9	637.3	615.4	43.7	100.6	—	219.1	978.7	1.0	1,633.0	888.3	2,521.2

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[i] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET6. Transportation sector energy price and expenditure estimates, selected years, 1970-2023, Nebraska

Year	Primary energy											Electricity [g]	Total energy [f]
			Petroleum										
	Coal	Natural gas[a]	Aviation gasoline	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Lubricants	Motor gasoline [e]	Residual fuel oil	Total	Total [f]		
	Prices in dollars per million Btu												
1970	0.16	—	2.17	1.14	1.07	0.75	5.08	3.03	0.50	2.51	2.51	—	2.51
1975	0.81	—	3.45	2.50	2.38	2.09	7.48	4.76	1.74	4.14	4.14	—	4.14
1980	—	—	9.02	7.06	4.96	6.47	14.36	10.06	—	9.19	9.19	—	9.19
1985	—	—	9.99	6.68	8.66	6.19	18.18	9.67	—	8.73	8.74	—	8.74
1990	—	—	9.32	8.66	11.77	6.03	20.61	9.49	—	9.22	9.22	—	9.22
1995	—	3.27	8.36	8.00	11.88	4.01	21.75	9.24	—	8.78	8.78	—	8.78
2000	—	4.97	10.87	10.76	16.22	6.76	23.20	12.10	—	11.56	11.56	—	11.56
2005	—	8.47	18.56	17.23	21.92	13.19	35.22	17.94	—	17.72	17.72	—	17.72
2006	—	8.58	22.31	19.55	23.70	14.70	43.88	20.52	—	20.20	20.20	—	20.20
2007	—	8.50	23.70	21.17	25.94	16.00	47.16	23.00	—	22.37	22.37	—	22.37
2008	—	9.47	27.23	26.91	29.61	22.56	55.12	25.48	—	26.21	26.21	—	26.21
2009	—	7.50	20.32	17.83	24.65	12.20	56.07	19.04	—	18.76	18.76	—	18.76
2010	—	9.03	25.19	21.76	27.03	16.78	58.80	22.79	—	22.40	22.40	—	22.40
2011	—	14.93	31.64	27.92	30.19	23.03	69.54	28.99	—	28.61	28.61	—	28.61
2012	—	15.01	33.04	28.65	23.03	22.97	72.11	29.59	—	29.26	29.26	—	29.26
2013	—	R 14.75	32.71	28.70	24.23	22.89	69.42	28.87	—	28.87	28.87	—	28.87
2014	—	R 16.44	33.16	27.99	26.96	20.59	69.44	27.60	—	27.84	27.84	—	27.84
2015	—	R 16.54	24.86	19.41	16.36	11.88	67.28	19.81	—	19.71	19.71	—	19.71
2016	—	R 15.33	21.62	16.63	15.47	9.72	65.78	17.62	—	17.31	17.31	—	17.31
2017	—	R 16.90	24.13	19.11	19.82	12.10	67.25	19.78	—	19.56	19.55	—	19.55
2018	—	R 16.96	27.04	22.88	20.56	15.64	72.37	21.93	—	22.44	22.44	—	22.44
2019	—	R 17.32	25.57	21.74	17.19	14.37	74.92	20.90	—	21.38	R 21.38	—	R 21.38
2020	—	R 17.06	22.34	17.86	16.32	9.10	75.34	17.15	—	17.61	17.60	—	17.60
2021	—	R 19.32	28.86	23.63	24.87	14.48	81.25	24.22	—	24.00	R 23.99	—	R 23.99
2022	—	R 30.58	36.02	36.00	24.39	25.89	97.37	31.90	—	R 33.92	R 33.91	—	R 33.91
2023	—	31.82	32.62	30.25	20.00	20.75	105.48	28.29	—	29.24	29.24	—	29.24
	Expenditures in million dollars												
1970	(s)	—	2.2	24.4	0.9	7.3	9.8	271.7	0.7	317.0	317.0	—	317.0
1975	(s)	—	2.5	67.2	2.1	19.3	13.6	472.2	1.5	578.3	578.3	—	578.3
1980	—	—	9.7	210.2	3.3	56.2	30.3	923.3	—	1,233.0	1,233.0	—	1,233.0
1985	—	—	4.9	261.0	1.9	45.9	34.9	822.6	—	1,171.2	1,185.2	—	1,185.2
1990	—	—	3.9	379.8	2.8	50.0	44.5	865.0	—	1,346.0	1,368.0	—	1,368.0
1995	—	0.1	3.2	444.0	1.0	22.7	44.8	890.5	—	1,406.2	1,406.4	—	1,406.4
2000	—	0.2	3.5	624.8	1.6	47.2	51.1	1,229.6	—	1,957.7	1,957.9	—	1,957.9
2005	—	0.2	7.7	1,076.4	1.9	69.9	65.4	1,757.7	—	2,979.0	2,979.2	—	2,979.2
2006	—	0.2	9.0	1,252.0	3.1	88.4	79.4	1,997.3	—	3,429.2	3,429.4	—	3,429.4
2007	—	0.2	9.5	1,326.3	3.8	87.8	88.1	2,306.0	—	3,821.6	3,821.8	—	3,821.8
2008	—	0.3	9.1	1,572.5	3.3	113.6	95.6	2,557.0	—	4,351.0	4,351.3	—	4,351.3
2009	—	0.2	6.5	R 1,167.8	2.0	48.2	87.4	1,869.4	—	R 3,181.3	R 3,181.5	—	R 3,181.5
2010	—	0.3	6.3	R 1,988.1	0.5	103.2	87.4	2,275.0	—	4,460.5	4,460.8	—	4,460.8
2011	—	0.6	7.4	R 2,426.5	0.6	133.1	94.4	2,789.3	—	R 5,451.2	R 5,451.8	—	R 5,451.8
2012	—	0.6	7.3	R 2,322.4	0.4	133.5	88.7	2,871.2	—	R 5,423.5	R 5,424.0	—	R 5,424.0
2013	—	R 0.7	5.7	R 2,279.9	0.7	143.3	88.0	2,873.5	—	R 5,391.1	R 5,391.9	—	R 5,391.9
2014	—	R 0.9	6.4	R 2,291.3	0.9	122.9	92.2	2,875.6	—	R 5,389.4	R 5,390.2	—	R 5,390.2
2015	—	R 0.9	4.8	R 1,615.2	0.5	84.1	96.9	2,006.6	—	R 3,808.1	R 3,809.0	—	R 3,809.0
2016	—	R 1.3	4.1	R 1,345.2	0.6	56.9	90.3	1,832.8	—	R 3,329.9	R 3,331.3	—	R 3,331.3
2017	—	R 2.5	4.4	R 1,554.6	0.4	76.8	84.5	2,050.3	—	R 3,771.0	R 3,773.6	—	R 3,773.6
2018	—	R 2.7	5.1	R 1,985.5	2.6	105.8	88.4	2,288.8	—	R 4,476.2	R 4,478.9	—	R 4,478.9
2019	—	R 2.9	4.8	1,922.3	3.0	94.6	R 89.8	2,187.9	—	R 4,302.4	R 4,305.3	—	R 4,305.3
2020	—	R 2.9	4.0	R 1,482.6	0.3	44.8	R 82.6	1,634.7	—	R 3,249.1	R 3,252.0	—	R 3,252.0
2021	—	R 8.5	5.0	R 1,995.6	8.2	R 87.8	93.3	2,482.4	—	R 4,672.4	R 4,680.8	—	R 4,680.8
2022	—	R 16.6	6.5	R 3,057.9	0.9	R 158.6	R 118.4	3,247.2	—	R 6,589.6	R 6,606.2	—	R 6,606.2
2023	—	10.8	5.6	2,519.5	1.0	132.5	92.9	2,901.7	—	5,653.2	5,663.9	—	5,663.9

[a] Transportation use of natural gas as vehicle fuel only.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET7. Electric power sector price and expenditure estimates, selected years, 1970-2023, Nebraska

Year	Coal	Natural gas [a]	Petroleum: Distillate fuel oil	Petroleum: Petroleum coke	Petroleum: Residual fuel oil	Petroleum: Total	Nuclear fuel	Biomass: Wood and waste [b]	Electricity imports [c]	Total energy [d]
	Prices in dollars per million Btu									
1970	0.35	0.27	0.63	—	0.49	0.54	—	—	—	0.30
1975	0.87	0.63	1.85	—	1.73	1.77	0.17	—	—	0.50
1980	1.24	1.82	6.19	—	3.21	4.14	0.44	—	—	1.00
1985	1.11	3.58	5.89	—	—	5.89	0.65	—	—	1.01
1990	0.75	2.01	7.03	—	1.86	6.89	0.61	—	—	0.73
1995	0.75	1.66	4.15	—	—	4.15	0.68	0.77	—	0.74
2000	0.56	4.60	6.49	—	3.56	5.99	0.61	0.67	—	0.67
2005	0.71	8.18	13.43	—	5.37	10.88	0.43	0.49	16.53	0.83
2006	0.80	7.27	15.34	—	5.92	14.92	0.47	0.50	17.32	0.87
2007	0.88	8.83	16.69	—	6.55	13.49	0.46	2.42	18.25	1.02
2008	0.90	8.88	21.20	—	5.03	21.03	0.48	2.66	18.28	0.98
2009	1.33	6.29	13.66	—	4.35	13.46	0.56	2.20	—	1.17
2010	1.42	7.12	17.11	—	6.63	17.02	0.65	2.40	—	1.25
2011	1.51	5.69	22.77	—	9.86	22.53	0.69	2.44	—	1.42
2012	1.55	3.85	22.96	—	11.18	22.77	0.77	2.21	—	1.47
2013	1.42	4.83	22.39	—	—	22.39	0.84	2.26	—	1.38
2014	1.40	5.64	21.92	—	—	21.92	0.77	2.73	13.31	1.30
2015	1.35	3.74	18.25	—	—	18.25	0.72	2.62	—	1.19
2016	1.35	3.11	11.28	—	—	11.28	0.68	2.54	8.74	1.19
2017	1.37	3.97	12.94	—	—	12.94	0.76	2.40	9.18	1.29
2018	1.26	3.56	17.36	—	—	17.36	0.75	2.22	10.74	1.25
2019	1.23	2.94	14.87	—	—	14.87	0.69	2.33	—	1.19
2020	1.24	2.36	12.32	—	—	12.32	0.65	1.80	—	1.16
2021	1.18	12.58	16.69	—	—	16.69	0.61	2.39	—	1.56
2022	1.29	R 8.38	23.33	—	—	23.33	0.64	2.69	—	R 1.53
2023	1.33	2.99	21.76	—	—	21.75	0.66	2.93	—	1.29
	Expenditures in million dollars									
1970	8.5	12.8	0.5	—	0.6	1.0	—	—	—	22.3
1975	23.4	23.3	3.3	—	7.2	10.5	11.0	—	—	68.1
1980	109.8	20.5	3.1	—	3.6	6.7	27.7	—	—	164.7
1985	122.9	4.4	2.1	—	—	2.1	28.7	—	—	158.2
1990	103.4	7.3	1.3	—	(s)	1.3	48.8	—	—	160.7
1995	129.2	5.1	1.5	—	—	1.5	53.5	0.1	—	189.5
2000	111.1	25.8	3.8	—	0.4	4.2	55.1	0.1	—	196.3
2005	156.6	65.8	3.5	—	0.6	4.1	39.2	0.2	(s)	265.9
2006	175.8	56.9	3.5	—	0.1	3.6	44.4	0.3	(s)	281.0
2007	183.3	97.8	5.2	—	0.9	6.1	53.2	1.5	0.6	342.6
2008	204.9	64.6	8.9	—	(s)	8.9	47.1	1.6	(s)	327.1
2009	321.4	20.9	3.4	—	(s)	3.5	55.6	1.4	—	402.9
2010	342.5	28.2	5.6	—	(s)	5.6	74.8	1.8	—	452.9
2011	402.7	24.2	9.0	—	0.1	9.1	50.2	1.6	—	487.9
2012	392.2	30.2	5.6	—	(s)	5.7	46.5	1.3	—	475.9
2013	386.7	22.8	12.1	—	—	12.1	60.0	1.4	—	483.0
2014	355.5	24.5	12.5	—	—	12.5	81.0	1.8	(s)	475.2
2015	329.7	16.9	1.7	—	—	1.7	77.2	1.9	—	427.4
2016	296.9	19.2	1.0	—	—	1.0	66.7	2.2	(s)	386.0
2017	291.9	26.1	1.2	—	—	1.2	54.6	2.1	0.2	376.1
2018	308.3	34.7	3.4	—	—	3.4	43.9	1.9	0.4	392.6
2019	275.0	38.0	3.6	—	—	3.6	49.8	1.8	—	368.3
2020	245.8	27.3	2.7	—	—	2.7	41.9	1.6	—	319.2
2021	234.2	151.0	13.1	—	—	13.1	43.9	2.1	—	444.3
2022	266.2	R 112.3	11.1	—	—	11.1	37.7	2.2	—	R 429.6
2023	244.9	44.8	12.1	—	—	12.1	47.4	2.6	—	351.7

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[c] Electricity imported from Canada and Mexico.
[d] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET1. Primary energy, electricity, and total energy price and expenditure estimates, selected years, 1970-2023, Nevada

Year	Primary energy														Electric power sector [i,k,l]	Electricity [m]	Total energy [h,i,j]
	Coal				Petroleum								Biomass				
	Coking coal	Steam coal	Total	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Nuclear fuel	Wood and waste [g,h]	Total [h,i,j,k]			
	Prices in dollars per million Btu																
1970	—	0.39	0.39	0.61	1.29	2.56	0.76	3.07	0.58	1.35	1.94	—	0.72	1.32	0.36	3.89	1.95
1975	—	0.35	0.35	1.31	2.75	3.77	2.12	4.74	1.98	2.61	3.39	—	1.43	1.82	0.59	6.86	3.52
1980	—	1.06	1.06	3.10	6.97	6.80	6.59	9.96	3.58	5.86	7.66	—	3.66	4.69	1.68	13.18	8.17
1985	—	1.62	1.62	5.44	6.73	11.37	6.22	8.77	4.45	6.58	7.63	—	4.14	4.83	1.80	16.75	8.93
1990	—	1.49	1.49	3.68	7.34	11.32	6.26	9.10	2.93	4.53	7.85	—	4.75	4.54	1.59	15.77	8.97
1995	—	1.32	1.32	3.43	7.04	10.91	4.36	9.31	2.83	4.38	7.33	—	3.86	4.39	1.41	17.95	9.22
2000	—	1.27	1.27	5.12	10.84	13.55	7.12	13.51	5.54	6.01	11.22	—	5.70	6.18	2.63	18.14	11.76
2005	—	1.55	1.55	8.43	17.45	20.43	13.06	19.21	5.02	6.74	17.03	—	8.16	9.90	4.08	26.53	18.01
2006	—	1.75	1.75	8.55	19.37	23.53	15.24	21.49	8.10	7.79	19.17	—	9.75	12.59	5.09	28.32	20.05
2007	—	1.91	1.91	8.16	20.24	25.50	16.38	23.23	9.93	9.85	20.74	—	10.79	13.12	4.89	29.38	21.28
2008	—	2.22	2.22	9.11	25.97	30.45	22.80	26.75	—	10.63	25.31	—	13.39	15.01	6.19	29.10	23.67
2009	—	2.21	2.21	7.19	16.57	25.28	12.44	20.05	—	15.46	18.13	—	9.93	10.90	4.43	30.52	20.01
2010	—	2.44	2.44	7.17	20.44	27.54	16.56	23.43	—	R 22.56	R 21.02	—	11.43	R 12.90	4.66	28.66	R 20.88
2011	—	2.60	2.60	6.33	26.54	31.22	22.76	28.84	17.04	R 24.69	R 26.60	—	14.31	R 15.41	4.31	26.43	R 23.36
2012	—	2.65	2.65	4.86	27.84	24.43	23.20	30.31	—	R 25.84	R 27.63	—	12.99	R 14.95	3.27	26.38	R 23.74
2013	—	2.79	2.79	5.39	27.01	26.21	22.19	29.15	—	R 25.85	R 26.70	—	12.95	R 14.65	3.93	26.47	R 22.82
2014	—	2.56	2.56	6.46	25.82	28.24	20.67	28.21	—	R 25.97	R 25.62	—	R 12.85	R 14.75	4.35	28.50	R 23.19
2015	—	2.60	2.60	5.03	18.58	19.71	12.41	23.16	—	R 23.29	R 19.38	—	R 8.87	R 11.29	3.12	27.77	R 19.45
2016	—	2.24	2.24	R 4.39	15.70	19.71	9.96	20.16	—	R 22.00	R 16.50	—	R 6.18	R 9.94	2.82	24.58	R 16.67
2017	—	3.10	3.10	R 4.46	18.27	23.07	12.10	22.46	—	21.20	18.72	—	R 6.63	R 11.41	3.36	25.68	R 18.00
2018	—	3.10	3.10	R 4.46	R 21.71	23.58	15.90	25.74	—	24.58	22.22	—	R 8.08	R 12.97	3.16	25.42	R 20.02
2019	—	2.86	2.86	R 4.62	20.89	19.54	14.76	26.12	—	R 26.07	21.94	—	R 7.54	R 12.79	3.03	25.73	R 19.73
2020	—	2.52	2.52	R 4.41	17.51	18.62	9.75	22.22	—	R 23.62	18.63	—	R 5.77	R 10.48	2.62	24.43	R 17.95
2021	—	2.50	2.50	R 5.52	R 22.66	25.64	14.44	29.00	—	R 26.71	24.09	—	R 7.53	14.02	4.22	25.16	21.11
2022	—	3.41	3.41	R 8.77	34.15	27.11	26.18	38.63	—	R 34.89	34.18	—	R 11.41	20.75	R 7.28	32.06	28.94
2023	—	5.12	5.12	9.89	29.79	24.88	20.99	35.31	—	30.79	29.99	—	10.22	19.37	6.99	38.36	28.58
	Expenditures in million dollars																
1970	—	6.7	6.7	34.5	21.2	8.2	19.2	118.7	0.5	7.7	175.6	—	0.1	216.9	-15.1	75.7	277.4
1975	—	35.8	35.8	85.5	41.1	7.0	69.2	239.7	16.7	19.4	393.1	—	0.2	514.5	-79.8	179.0	613.7
1980	—	99.0	99.0	191.5	160.9	22.2	266.2	587.0	55.0	34.0	1,125.2	—	1.2	1,416.9	-226.1	468.2	1,659.0
1985	—	204.2	204.2	222.8	206.9	42.1	197.0	535.7	4.4	46.4	1,032.5	—	2.2	1,462.7	-239.0	634.3	1,858.0
1990	—	246.8	246.8	242.9	291.2	60.2	212.9	714.3	8.4	38.6	1,325.6	—	5.7	1,824.7	-301.3	879.8	2,403.3
1995	—	213.9	213.9	381.7	357.8	30.6	182.1	873.2	15.3	47.6	1,506.6	—	5.2	2,107.5	-312.1	1,236.0	3,031.4
2000	—	253.4	253.4	982.5	613.6	58.2	369.8	1,549.8	2.8	39.5	2,633.7	—	10.4	3,880.0	-838.3	1,691.5	4,733.1
2005	—	306.7	306.7	1,957.3	1,260.6	66.5	604.0	2,706.3	0.2	107.6	4,745.1	—	9.0	7,034.4	-1,418.8	2,877.4	8,493.0
2006	—	147.4	147.4	2,165.5	1,553.8	77.3	739.2	3,145.8	0.6	122.4	5,639.0	—	9.2	7,970.4	-1,282.4	3,270.5	9,958.6
2007	—	157.9	157.9	2,103.3	1,568.1	82.3	855.0	3,394.7	0.5	103.2	6,003.8	—	11.1	8,297.5	-1,253.0	3,494.4	10,538.9
2008	—	196.8	196.8	2,461.4	1,749.0	130.8	997.6	3,718.2	—	112.7	6,708.3	—	15.1	9,387.9	-1,688.2	3,417.6	11,117.3
2009	—	184.8	184.8	2,009.1	R 1,120.3	113.0	344.5	2,701.2	—	155.0	R 4,434.0	—	9.5	R 6,639.0	-1,236.6	3,494.2	R 8,896.7
2010	—	195.7	195.7	1,885.7	R 1,372.0	117.3	1,212.5	3,096.4	—	R 290.5	R 6,088.7	—	12.0	R 8,183.9	-1,200.0	3,234.5	R 10,218.4
2011	—	163.1	163.1	1,583.0	R 1,452.3	132.2	1,653.8	3,736.3	0.9	R 340.7	R 7,316.2	—	13.9	R 9,083.3	-981.1	2,992.8	R 11,095.0
2012	—	139.8	139.8	1,328.5	R 1,419.8	98.3	1,673.5	3,910.7	—	R 337.0	R 7,439.3	—	13.5	R 8,925.8	-788.8	3,098.5	R 11,235.5
2013	—	180.9	180.9	R 1,493.1	R 1,510.3	115.8	1,617.1	3,847.8	—	R 309.8	R 7,400.8	—	16.9	R 9,092.4	-963.9	3,180.0	R 11,308.6
2014	—	202.6	202.6	R 1,657.9	R 1,602.4	124.0	1,541.7	3,733.5	—	R 301.1	R 7,302.6	—	16.9	R 9,181.9	-1,064.7	3,411.2	R 11,528.4
2015	—	95.2	95.2	R 1,549.6	R 884.1	80.7	950.3	3,204.0	—	R 269.1	R 5,388.2	—	R 11.1	R 7,044.5	-778.0	3,412.9	R 9,679.4
2016	—	69.0	69.0	R 1,372.3	R 1,009.3	75.6	811.8	2,855.5	—	R 225.9	R 4,978.1	—	R 10.6	R 6,431.4	-687.8	3,030.7	R 8,774.3
2017	—	84.7	84.7	R 1,343.1	R 1,328.7	105.0	1,022.9	3,263.5	—	253.5	R 5,973.5	—	R 11.9	R 7,414.6	-760.8	3,211.6	R 9,865.4
2018	—	108.6	108.6	R 1,369.4	R 1,617.7	103.2	R 1,302.6	3,826.2	—	275.9	R 7,125.7	—	R 17.4	R 8,622.9	-747.7	3,277.1	R 11,152.3
2019	—	106.5	106.5	R 1,436.6	R 1,597.1	94.7	R 1,172.8	3,860.0	—	R 276.7	R 7,001.3	—	R 16.9	R 8,561.3	-706.8	3,247.1	R 11,101.5
2020	—	70.0	70.0	R 1,351.1	R 1,147.0	85.5	R 477.7	2,817.9	—	R 254.4	R 4,782.5	—	R 10.3	R 6,213.9	-612.5	3,186.5	R 8,788.0
2021	—	89.7	89.7	R 1,665.7	R 1,655.3	126.4	R 944.0	4,125.6	—	R 300.7	R 7,152.0	—	R 13.3	R 8,920.8	-991.4	3,350.8	R 11,280.1
2022	—	122.1	122.1	R 2,618.6	R 2,500.1	150.3	R 2,027.8	5,662.0	—	R 389.1	R 10,729.2	—	R 21.6	R 13,491.5	R -1,650.6	4,301.6	R 16,142.5
2023	—	150.0	150.0	2,942.4	2,145.2	128.3	1,659.2	4,942.3	—	313.9	9,188.9	—	19.1	12,300.4	-1,480.5	5,006.0	15,825.9

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[l] Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
[m] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET2. Total end-use energy price and expenditure estimates, selected years, 1970-2023, Nevada

Year	Primary energy											Electricity [k]	Total energy [h,i,j]
			Petroleum							Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g,h]	Total [h,i,j]		
	Prices in dollars per million Btu												
1970	0.73	0.82	1.29	2.56	0.76	3.07	0.55	1.35	1.95	0.72	1.64	3.89	1.95
1975	0.85	1.46	2.76	3.77	2.12	4.74	1.93	2.61	3.50	1.43	2.93	6.86	3.52
1980	1.38	3.56	6.97	6.80	6.59	9.96	3.55	5.86	8.14	3.66	7.11	13.18	8.17
1985	1.62	5.81	6.74	11.37	6.22	8.77	4.80	6.58	7.65	4.14	7.19	16.75	8.93
1990	1.58	4.73	7.35	11.32	6.26	9.10	2.85	4.53	7.94	4.75	7.18	15.77	8.97
1995	1.49	5.81	7.05	10.91	4.36	9.31	2.82	4.38	7.34	3.86	6.91	17.95	9.22
2000	1.53	5.79	10.86	13.55	7.12	13.51	4.50	6.01	11.24	5.70	9.84	18.14	11.76
2005	1.97	10.81	17.47	20.43	13.06	19.21	7.55	6.74	17.04	8.16	15.46	26.53	18.01
2006	2.11	12.67	19.38	23.53	15.24	21.49	8.88	7.79	19.17	9.75	17.55	28.32	20.05
2007	2.30	12.56	20.25	25.50	16.38	23.23	10.08	9.85	20.74	10.79	18.72	29.38	21.28
2008	2.53	11.82	25.98	30.45	22.80	26.75	—	10.63	25.31	13.39	21.85	29.10	23.67
2009	2.57	11.70	16.58	25.28	12.44	20.05	—	15.46	18.13	10.01	16.36	30.52	20.01
2010	2.64	10.68	20.44	27.54	16.56	23.43	—	R 22.56	R 21.02	11.43	R 18.54	28.66	R 20.88
2011	2.73	9.22	26.55	31.22	22.76	28.84	17.04	R 24.69	R 26.60	14.31	R 22.40	26.43	R 23.36
2012	3.29	8.44	R 27.86	24.43	23.20	30.31	—	R 25.84	R 27.63	15.71	R 22.86	26.38	R 23.74
2013	3.18	R 7.72	27.02	26.21	22.19	29.15	—	R 25.85	R 26.70	15.67	R 21.66	26.47	R 22.82
2014	3.28	9.23	25.82	28.24	20.67	28.21	—	R 25.97	R 25.62	15.47	R 21.50	28.50	R 23.19
2015	3.18	R 9.53	18.59	19.71	12.41	23.16	—	R 23.29	R 19.38	R 10.68	R 16.72	27.77	R 19.45
2016	3.09	R 7.85	R 15.71	19.71	9.96	20.16	—	R 22.00	R 16.51	R 9.14	R 14.25	24.58	R 16.67
2017	3.19	R 6.72	18.28	23.07	12.10	22.46	—	21.20	18.72	R 10.34	R 15.73	25.68	R 18.00
2018	3.24	R 7.18	21.71	23.58	15.90	25.74	—	24.58	22.22	R 11.50	R 18.39	25.42	R 20.02
2019	3.33	R 7.48	20.90	19.54	14.76	26.12	—	R 26.07	21.94	11.07	R 18.00	25.73	R 19.73
2020	3.19	R 8.29	17.51	18.62	9.75	22.22	—	R 23.62	18.63	R 9.06	R 15.60	24.43	R 17.95
2021	3.36	R 7.67	R 22.67	25.64	14.44	29.00	—	R 26.71	R 24.09	R 10.88	R 19.77	25.16	21.11
2022	4.16	R 10.36	R 34.16	27.11	26.18	38.63	—	R 34.89	R 34.18	R 16.37	27.95	32.06	28.94
2023	4.99	14.31	29.79	24.88	20.99	35.31	—	30.79	29.99	14.92	25.56	38.36	28.58
	Expenditures in million dollars												
1970	2.4	24.0	21.2	8.2	19.2	118.7	0.2	7.7	175.2	0.1	201.8	75.7	277.4
1975	1.7	56.2	40.3	7.0	69.2	239.7	1.0	19.4	376.6	0.2	434.7	179.0	613.7
1980	4.8	115.1	160.2	22.2	266.2	587.0	0.2	34.0	1,069.7	1.2	1,190.8	468.2	1,659.0
1985	4.3	187.8	205.0	42.1	197.0	535.7	3.2	46.4	1,029.4	2.2	1,223.7	634.3	1,858.0
1990	6.3	193.8	287.8	60.2	212.9	714.3	0.2	38.6	1,314.0	5.7	1,523.4	879.8	2,403.3
1995	8.7	276.2	357.1	30.6	182.1	873.2	14.8	47.6	1,505.3	5.2	1,795.3	1,236.0	3,031.4
2000	8.2	393.8	611.6	58.2	369.8	1,549.8	0.2	39.5	2,629.1	10.4	3,041.6	1,691.5	4,733.1
2005	9.1	855.1	1,258.0	66.5	604.0	2,706.3	(s)	107.6	4,742.4	9.0	5,615.6	2,877.4	8,493.0
2006	9.9	1,032.5	1,551.8	77.3	739.2	3,145.8	(s)	122.4	5,636.5	9.2	6,688.1	3,270.5	9,958.6
2007	10.7	1,021.3	1,565.9	82.3	855.0	3,394.7	0.3	103.2	6,001.4	11.1	7,044.6	3,494.4	10,538.9
2008	11.1	969.1	1,745.2	130.8	997.6	3,718.2	—	112.7	6,704.4	15.1	7,699.7	3,417.6	11,117.3
2009	8.7	952.9	R 1,117.7	113.0	344.5	2,701.2	—	155.0	R 4,431.4	9.5	R 5,402.5	3,494.2	R 8,896.7
2010	11.1	874.7	R 1,369.4	117.3	1,212.5	3,096.4	—	R 290.5	R 6,086.1	12.0	R 6,983.9	3,234.5	R 10,218.4
2011	6.8	769.1	R 1,448.4	132.2	1,653.8	3,736.3	0.9	R 340.7	R 7,312.4	13.9	R 8,102.2	2,992.8	R 11,095.0
2012	22.8	667.9	R 1,413.8	98.3	1,673.5	3,910.7	—	R 337.0	R 7,433.3	13.0	R 8,137.0	3,098.5	R 11,235.5
2013	24.1	R 692.1	R 1,505.5	115.8	1,617.1	3,847.8	—	R 309.8	R 7,396.0	16.3	R 8,128.6	3,180.0	R 11,308.6
2014	24.0	R 778.3	R 1,598.5	124.0	1,541.7	3,733.5	—	R 301.1	R 7,298.7	R 16.1	R 8,117.2	3,411.2	R 11,528.4
2015	21.7	R 849.2	R 881.1	80.7	950.3	3,204.0	—	R 269.1	R 5,385.2	R 10.4	R 6,266.5	3,412.9	R 9,679.4
2016	19.9	R 738.4	R 1,007.9	75.6	811.8	2,855.5	—	R 225.9	R 4,976.6	R 8.6	R 5,743.6	3,030.7	R 8,774.3
2017	18.5	R 653.2	R 1,327.4	105.0	1,022.9	3,263.5	—	253.5	R 5,972.2	R 9.9	R 6,653.8	3,211.6	R 9,865.4
2018	22.2	R 713.9	R 1,615.4	103.2	R 1,302.6	3,826.2	—	275.9	R 7,123.4	R 15.7	R 7,875.2	3,277.1	R 11,152.3
2019	22.3	R 818.5	R 1,594.8	94.7	R 1,172.8	3,860.0	—	R 276.7	R 6,999.0	R 14.8	R 7,854.5	3,247.1	R 11,101.5
2020	18.8	R 792.3	R 1,145.9	85.5	R 477.7	2,817.9	—	R 254.4	R 4,781.5	R 8.8	R 5,601.5	3,186.5	R 8,788.0
2021	19.0	R 748.5	R 1,653.6	126.4	R 944.0	4,125.6	—	R 300.7	R 7,150.3	R 11.7	R 7,929.4	3,350.8	R 11,280.1
2022	20.3	R 1,074.5	R 2,497.1	150.3	R 2,027.8	5,662.0	—	R 389.1	R 10,726.3	R 19.8	R 11,840.9	4,301.6	R 16,142.5
2023	21.8	1,595.0	2,142.4	128.3	1,659.2	4,942.3	—	313.9	9,186.2	17.0	10,820.0	5,006.0	15,825.9

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. · Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2023, Nevada

Year	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
	Prices in dollars per million Btu									
1970	1.31	1.39	1.27	3.47	—	2.38	0.72	1.68	4.46	2.65
1975	1.55	1.83	2.82	4.90	—	3.64	1.43	2.14	7.54	4.28
1980	5.13	3.87	6.92	9.28	—	8.22	3.66	4.50	14.21	8.69
1985	4.54	6.63	7.55	12.40	11.26	10.33	4.14	7.37	18.83	12.43
1990	5.03	5.49	6.76	13.10	7.50	10.99	4.75	6.39	16.71	11.09
1995	3.95	6.54	6.96	11.12	5.12	9.44	3.86	6.72	20.84	13.41
2000	4.33	6.44	10.71	14.60	9.80	12.92	5.88	6.96	21.34	13.81
2005	4.46	11.94	16.80	21.99	13.66	19.69	9.20	12.45	29.88	20.72
2006	4.95	13.79	19.25	25.19	21.97	23.21	10.60	14.37	32.47	23.19
2007	5.92	13.67	20.73	27.19	24.09	25.12	11.71	14.38	34.64	24.41
2008	—	12.90	25.73	32.56	29.86	30.48	14.42	14.17	34.96	24.22
2009	—	12.80	18.06	27.49	24.96	25.51	10.83	13.75	37.68	25.22
2010	—	11.81	22.96	31.57	26.82	29.81	12.78	13.06	36.23	23.95
2011	—	10.41	28.40	33.68	32.19	32.89	15.36	11.94	34.02	22.19
2012	—	9.79	29.73	30.79	33.73	30.65	17.11	10.94	34.66	22.84
2013	—	9.10	29.39	30.46	33.34	30.40	16.76	10.46	34.86	21.94
2014	—	11.07	28.72	36.10	33.17	35.59	16.34	12.51	37.90	25.42
2015	—	11.37	20.14	26.84	17.11	26.25	11.26	12.15	37.39	24.86
2016	—	9.83	16.78	25.56	13.64	24.69	9.62	10.59	33.43	21.96
2017	—	8.48	19.17	29.97	17.06	R 28.89	10.76	9.61	35.13	22.14
2018	—	8.92	22.35	31.20	24.64	R 30.23	11.90	9.94	34.72	22.24
2019	—	9.12	21.53	27.16	23.01	26.50	11.46	9.91	35.18	21.33
2020	—	9.99	17.68	23.68	14.94	23.07	9.47	10.65	33.24	R 21.69
2021	—	9.38	21.12	31.26	23.60	30.16	11.37	10.47	33.68	R 21.98
2022	—	12.20	32.62	34.83	38.96	34.58	R 17.58	R 13.35	40.39	R 26.37
2023	—	16.25	29.86	32.19	33.28	31.93	16.07	17.04	48.85	31.32
	Expenditures in million dollars									
1970	1.2	10.9	2.4	6.8	—	9.2	0.1	21.4	30.3	51.6
1975	0.1	21.6	4.4	4.9	—	9.2	0.2	31.2	72.1	103.3
1980	0.1	53.6	7.5	12.4	—	20.0	1.2	74.8	179.2	254.0
1985	(s)	88.7	12.1	25.3	3.0	40.5	2.2	131.4	265.1	396.5
1990	0.1	97.0	8.4	33.6	0.4	42.4	5.1	144.6	315.9	460.5
1995	(s)	139.8	7.1	17.8	0.2	25.1	4.6	169.4	473.3	642.7
2000	—	198.5	13.2	25.0	0.4	38.6	8.8	245.9	684.9	930.8
2005	(s)	453.5	19.9	38.6	1.4	59.9	7.5	521.0	1,129.6	1,650.6
2006	(s)	542.9	17.6	47.4	1.9	66.9	7.7	617.5	1,327.0	1,944.6
2007	(s)	539.7	17.6	50.4	2.3	70.3	9.4	619.5	1,464.2	2,083.7
2008	—	515.4	23.8	68.9	1.5	94.2	13.0	622.5	1,438.7	2,061.3
2009	—	510.6	12.3	71.3	3.5	87.1	8.2	605.9	1,527.4	2,133.3
2010	—	482.4	12.9	75.4	3.1	91.5	10.4	584.3	1,435.7	2,020.0
2011	—	432.7	12.1	83.2	0.5	95.8	12.1	540.7	1,334.1	1,874.7
2012	—	375.9	8.9	53.3	0.4	62.7	11.3	449.9	1,433.8	1,883.7
2013	—	392.5	4.9	76.1	0.1	81.2	14.4	488.1	1,444.3	1,932.4
2014	—	401.9	4.2	71.2	0.1	R 75.6	14.2	491.7	1,541.1	R 2,032.9
2015	—	437.7	3.8	53.3	(s)	57.1	9.0	503.8	1,574.1	2,077.9
2016	—	399.7	3.7	52.1	(s)	55.8	7.3	R 462.9	1,447.6	1,910.5
2017	—	360.8	4.6	65.9	(s)	70.6	8.4	439.8	1,550.5	1,990.3
2018	—	386.6	5.0	57.9	0.1	63.0	13.7	463.3	1,593.4	R 2,056.7
2019	—	455.3	5.7	54.5	0.1	60.3	R 13.0	528.6	1,544.7	R 2,073.4
2020	—	476.7	4.6	55.4	0.1	60.0	R 7.2	R 543.9	1,624.4	R 2,168.3
2021	—	435.9	5.8	70.6	0.1	76.4	R 9.6	R 522.0	1,651.8	R 2,173.8
2022	—	599.3	9.1	76.8	0.1	86.0	R 16.9	R 702.1	1,971.5	R 2,673.7
2023	—	858.8	9.6	81.8	0.2	91.5	14.1	964.5	2,251.6	3,216.1

[a] Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2023, Nevada

Year	Primary energy										Electricity [j]	Total energy [g,h,i]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f,g]	Total [g,h,i]		
	Prices in dollars per million Btu											
1970	0.52	0.70	1.12	1.14	0.77	3.07	0.62	1.30	0.72	0.79	4.74	2.15
1975	0.82	1.45	2.62	2.37	2.42	4.74	2.00	2.90	1.43	1.59	8.01	3.86
1980	1.36	3.68	6.60	4.78	—	9.96	3.53	6.56	3.66	4.30	15.39	7.68
1985	1.61	5.77	5.99	9.55	11.26	8.77	4.80	7.28	4.14	6.07	18.24	11.12
1990	1.56	4.25	5.67	9.02	7.50	9.10	2.85	7.21	4.75	4.77	17.38	10.42
1995	1.49	5.23	5.13	10.27	5.12	9.31	—	5.82	3.86	5.35	19.06	11.22
2000	1.53	5.38	7.91	13.25	9.80	13.51	4.50	9.23	5.88	5.80	19.27	11.86
2005	1.96	9.96	14.75	17.71	13.66	19.21	—	15.66	9.20	10.69	27.79	18.83
2006	2.11	11.68	17.02	20.34	21.97	21.49	—	17.91	10.60	12.43	29.66	20.68
2007	2.30	11.61	18.19	22.09	24.09	23.23	10.12	19.62	11.71	12.32	29.58	20.90
2008	—	10.85	24.28	25.72	29.86	26.75	—	24.96	14.42	12.14	29.51	20.66
2009	—	10.61	14.58	19.74	24.96	20.05	—	16.91	10.83	11.08	31.19	20.75
2010	—	9.42	18.69	21.33	26.82	23.43	—	19.65	12.78	10.31	28.68	19.07
2011	—	7.88	25.20	26.13	32.19	28.84	17.04	25.39	15.36	9.34	26.54	17.44
2012	—	7.17	25.96	19.24	33.73	30.31	—	22.93	17.11	8.37	25.88	17.02
2013	—	6.39	25.24	20.22	33.34	29.15	—	23.56	16.76	R 7.94	26.42	R 16.66
2014	—	7.95	23.80	20.99	33.17	28.21	—	22.90	16.34	9.23	27.76	18.38
2015	—	8.33	15.04	13.15	17.11	23.16	—	19.03	11.26	10.52	27.11	18.08
2016	—	6.57	12.71	13.32	13.64	20.16	—	16.92	9.62	8.57	23.26	15.28
2017	—	5.49	15.20	16.82	17.06	22.46	—	R 19.21	10.76	8.21	23.34	R 15.41
2018	—	6.12	18.78	18.30	24.64	25.74	—	22.25	11.90	9.38	22.69	15.93
2019	—	6.23	18.05	14.56	23.01	26.12	—	R 21.65	11.46	9.13	23.56	15.89
2020	—	6.99	12.71	13.76	14.94	22.22	—	R 18.16	9.47	9.55	21.83	16.17
2021	—	6.33	19.22	21.14	23.60	29.00	—	24.78	11.37	10.22	22.76	16.60
2022	—	9.00	29.16	22.44	38.96	38.63	—	32.74	R 17.58	13.85	29.73	21.73
2023	—	13.20	24.62	18.13	33.28	35.31	—	28.96	16.07	16.36	34.90	25.38
	Expenditures in million dollars											
1970	0.4	7.3	1.0	1.0	(s)	0.8	0.1	3.0	(s)	10.6	33.4	44.0
1975	0.1	23.2	2.0	1.0	0.2	1.7	0.4	5.3	(s)	28.6	78.6	107.2
1980	0.1	39.6	13.6	2.8	—	3.2	0.2	19.7	(s)	59.4	93.2	152.6
1985	0.1	74.9	11.0	8.6	0.3	3.8	0.8	24.4	0.1	99.4	212.0	311.4
1990	0.1	66.0	10.3	10.2	0.2	4.0	(s)	24.6	0.6	91.3	269.9	361.1
1995	(s)	101.1	24.8	7.2	(s)	0.6	—	32.7	0.6	134.4	358.2	492.7
2000	—	141.7	18.5	9.9	0.1	0.9	0.2	29.7	1.5	172.9	469.9	642.8
2005	(s)	275.9	42.4	20.5	0.2	1.6	—	64.6	1.2	341.7	807.5	1,149.2
2006	0.1	339.9	51.4	18.9	0.7	1.9	—	72.8	1.3	414.1	908.4	1,322.5
2007	(s)	339.5	32.2	21.1	0.8	2.1	0.3	56.4	1.5	397.5	943.8	1,341.3
2008	—	324.2	42.3	27.5	0.5	4.2	—	74.6	2.0	400.7	936.8	1,337.5
2009	—	322.5	20.7	17.7	1.5	1.8	—	41.7	1.2	365.3	952.5	1,317.8
2010	—	288.0	37.2	16.0	1.2	2.0	—	56.4	1.4	345.7	877.7	1,223.4
2011	—	248.3	51.5	16.7	0.2	2.5	0.9	71.8	1.6	321.6	814.4	1,136.0
2012	—	215.4	30.7	22.1	0.1	2.6	—	55.5	1.5	272.4	822.5	1,094.9
2013	—	206.3	R 46.6	23.4	(s)	3.9	—	R 74.0	1.7	282.0	838.5	R 1,120.6
2014	—	239.0	39.7	21.5	(s)	2.4	—	R 63.7	R 1.7	304.3	892.0	1,196.4
2015	—	258.7	R 35.7	17.9	(s)	98.0	—	151.6	R 1.2	R 411.5	889.4	1,301.0
2016	—	212.9	R 32.5	11.7	(s)	86.8	—	R 131.1	R 1.1	R 345.1	787.9	R 1,133.0
2017	—	183.9	R 42.1	19.7	0.1	96.3	—	R 158.2	R 1.3	R 343.4	885.7	R 1,229.1
2018	—	207.8	R 56.2	22.5	0.1	112.2	—	R 190.9	R 1.8	R 400.5	938.6	R 1,339.1
2019	—	228.4	R 46.5	21.2	0.3	114.7	—	R 182.7	R 1.6	R 412.7	938.9	R 1,351.6
2020	—	187.3	R 29.1	17.0	(s)	98.3	—	144.3	R 1.4	333.1	892.5	1,225.6
2021	—	201.6	R 41.6	39.3	0.1	129.5	—	210.5	R 1.9	R 414.0	954.7	R 1,368.7
2022	—	307.7	R 63.3	42.8	0.2	179.5	—	285.7	R 2.6	596.0	1,260.7	1,856.7
2023	—	468.8	61.8	31.3	0.3	163.9	—	257.3	2.5	728.6	1,472.7	2,201.3

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[g] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[j] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: Expenditure totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2023, Nevada

	Primary energy													
	Coal				Petroleum						Biomass			
	Coking coal	Steam coal	Total	Natural gas [a]	Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e,f]	Total [f,g,h]	Electricity [i]	Total energy [f,g,h]
Year	Prices in dollars per million Btu													
1970	—	0.52	0.52	0.52	0.96	1.20	3.07	0.49	0.73	1.04	—	0.76	2.14	1.02
1975	—	0.82	0.82	1.06	2.25	2.58	4.74	1.83	2.00	2.25	—	1.61	4.23	2.18
1980	—	1.36	1.36	2.83	5.56	5.20	9.96	3.75	4.07	5.13	—	3.68	11.63	7.21
1985	—	1.61	1.61	4.05	6.24	10.73	8.77	4.80	5.10	6.08	—	5.12	12.91	7.68
1990	—	1.56	1.56	3.98	5.73	10.04	9.10	2.85	3.01	5.34	—	4.68	13.76	7.92
1995	—	1.49	1.49	5.17	5.46	10.71	9.31	2.82	3.39	4.69	—	4.38	14.79	8.10
2000	—	1.53	1.53	4.96	7.93	12.68	13.51	—	3.98	7.52	1.22	6.04	14.60	10.13
2005	—	1.96	1.96	9.41	15.34	20.46	19.21	7.52	5.27	11.58	1.66	10.21	22.60	15.61
2006	—	2.11	2.11	11.57	17.27	22.88	21.49	8.88	5.89	13.25	1.69	11.89	23.52	17.08
2007	—	2.30	2.30	11.36	18.17	26.30	23.23	—	6.80	15.14	1.69	12.92	24.27	18.38
2008	—	2.53	2.53	10.74	24.35	31.53	26.75	—	7.20	19.51	1.69	15.74	23.40	19.45
2009	—	2.57	2.57	10.90	14.60	24.94	20.05	—	13.20	14.78	1.70	12.98	23.37	18.02
2010	—	2.64	2.64	10.15	18.85	23.01	23.43	—	R 18.63	R 19.12	1.69	R 15.86	21.61	R 18.55
2011	—	2.73	2.73	8.78	25.11	28.64	28.84	—	R 20.53	R 23.23	2.41	R 18.07	19.48	R 18.82
2012	—	3.29	3.29	7.08	26.19	19.94	30.31	—	R 21.71	R 23.90	2.41	R 16.12	19.00	R 17.63
2013	—	3.18	3.18	6.44	25.60	21.19	29.15	—	R 21.26	R 23.74	2.41	R 14.97	19.10	R 17.08
2014	—	3.28	3.28	7.58	24.23	22.15	28.21	—	R 21.16	R 23.41	2.99	R 16.07	20.86	R 18.23
2015	—	3.18	3.18	7.76	15.21	12.26	23.16	—	R 18.17	R 18.00	2.99	R 11.06	19.78	R 15.71
2016	—	3.09	3.09	5.67	13.13	12.46	20.16	—	R 16.33	R 14.62	2.99	R 10.15	17.23	R 13.38
2017	—	3.19	3.19	4.87	15.64	15.92	22.46	—	16.30	16.28	3.02	11.30	18.03	14.08
2018	—	3.24	3.24	5.16	18.94	17.39	25.74	—	19.38	19.44	3.06	13.09	17.89	14.97
2019	—	3.33	3.33	5.58	17.77	13.62	26.12	—	20.58	18.92	3.06	12.75	17.99	14.85
2020	—	3.19	3.19	5.79	12.40	12.81	22.22	—	R 18.64	15.79	3.06	10.37	16.45	13.08
2021	—	3.36	3.36	5.40	18.72	20.13	29.00	—	R 21.08	R 20.29	3.06	R 13.54	17.64	R 15.33
2022	—	4.16	4.16	7.89	29.10	21.36	38.63	—	R 27.84	R 29.09	R 3.01	R 19.51	24.90	R 21.87
2023	—	4.99	4.99	11.24	24.77	17.02	35.31	—	24.45	25.31	3.01	18.20	30.36	23.43
	Expenditures in million dollars													
1970	—	0.9	0.9	5.8	4.7	0.4	2.7	0.1	3.1	11.0	—	17.7	12.0	29.7
1975	—	1.5	1.5	11.4	9.3	1.0	2.9	0.5	11.6	25.2	—	38.1	28.3	66.4
1980	—	4.6	4.6	21.9	21.1	6.9	5.8	(s)	17.3	51.1	—	77.6	195.8	273.4
1985	—	4.2	4.2	24.2	54.1	6.9	6.0	2.5	29.4	98.9	—	127.3	157.2	284.5
1990	—	6.1	6.1	30.8	97.1	15.5	8.1	0.1	22.2	143.0	—	179.9	294.0	474.0
1995	—	8.6	8.6	34.9	108.6	4.6	9.8	14.8	34.0	171.7	—	215.2	404.5	619.7
2000	—	8.2	8.2	51.8	129.2	23.3	7.8	—	22.2	182.5	0.1	242.6	536.7	779.3
2005	—	9.0	9.0	121.8	279.7	(s)	61.3	(s)	77.4	418.3	0.2	549.4	939.6	1,489.0
2006	—	9.8	9.8	145.2	334.5	5.1	69.0	(s)	85.2	493.8	0.2	649.0	1,034.3	1,683.3
2007	—	10.7	10.7	138.0	371.7	4.4	37.4	—	62.6	476.2	0.2	625.1	1,085.5	1,710.6
2008	—	11.1	11.1	125.4	462.8	20.7	57.1	—	67.5	608.1	0.2	744.7	1,041.3	1,786.1
2009	—	8.7	8.7	112.9	300.6	17.4	40.5	—	117.0	475.5	0.1	597.3	1,013.4	1,610.7
2010	—	11.1	11.1	97.5	384.9	25.0	37.5	—	R 208.7	R 656.2	0.2	R 765.0	920.3	R 1,685.3
2011	—	6.8	6.8	85.3	256.7	31.4	42.2	—	R 253.8	R 584.1	0.2	R 676.4	843.6	R 1,520.1
2012	—	22.8	22.8	71.3	231.7	22.3	46.7	—	R 254.9	R 555.6	0.2	R 649.9	841.6	R 1,491.4
2013	—	24.1	24.1	87.8	274.3	15.3	44.4	—	R 226.1	R 560.1	0.2	R 672.2	896.5	R 1,568.6
2014	—	24.0	24.0	128.4	464.0	27.8	52.1	—	R 215.6	R 759.5	0.2	R 912.1	977.3	R 1,889.4
2015	—	21.7	21.7	142.7	53.2	7.6	51.9	—	R 184.9	R 297.6	0.2	R 462.2	948.6	R 1,410.8
2016	—	19.9	19.9	107.9	228.5	9.1	45.3	—	R 145.6	R 428.5	0.2	R 556.5	794.5	R 1,351.0
2017	—	18.5	18.5	97.3	335.1	15.5	50.9	—	173.5	575.1	0.2	691.0	774.6	1,465.6
2018	—	22.2	22.2	107.6	439.9	20.3	60.6	—	192.4	713.2	0.2	843.2	744.4	1,587.6
2019	—	22.3	22.3	119.9	394.5	18.4	62.1	—	R 191.7	R 666.6	0.2	R 809.0	762.8	R 1,571.8
2020	—	18.8	18.8	115.3	145.6	12.8	53.3	—	R 179.3	R 391.0	0.2	R 525.3	669.2	R 1,194.6
2021	—	19.0	19.0	97.9	326.6	15.7	65.6	—	R 210.9	R 618.9	0.2	R 736.0	743.8	R 1,479.8
2022	—	20.3	20.3	151.2	513.3	29.5	92.2	—	R 273.1	R 908.1	R 0.3	R 1,079.9	1,068.6	R 2,148.5
2023	—	21.8	21.8	244.9	426.5	14.1	85.1	—	224.6	750.3	0.3	1,017.3	1,280.8	2,298.0

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[i] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET6. Transportation sector energy price and expenditure estimates, selected years, 1970-2023, Nevada

Year	Primary energy											Electricity [g]	Total energy [f]
			Petroleum										
	Coal	Natural gas[a]	Aviation gasoline	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Lubricants	Motor gasoline [e]	Residual fuel oil	Total	Total [f]		
	Prices in dollars per million Btu												
1970	0.52	—	2.17	1.50	1.14	0.76	5.08	3.07	0.60	2.08	2.08	—	2.08
1975	0.82	—	3.45	3.01	2.37	2.12	7.48	4.74	2.36	3.66	3.66	—	3.66
1980	—	—	9.02	7.36	4.78	6.59	14.36	9.96	—	8.44	8.44	—	8.44
1985	—	—	9.99	6.97	10.84	6.22	18.18	8.77	—	7.79	7.79	—	7.79
1990	—	—	9.32	8.97	11.46	6.26	20.61	9.10	—	8.39	8.40	—	8.40
1995	—	3.61	8.36	8.68	13.48	4.36	21.75	9.31	—	7.96	7.96	—	7.96
2000	—	4.26	10.87	12.36	16.26	7.12	23.20	13.51	—	11.69	11.67	—	11.67
2005	—	7.86	18.56	18.43	21.64	13.06	35.22	19.21	—	17.86	17.84	27.37	17.84
2006	—	9.77	22.31	20.22	23.43	15.24	43.88	21.49	—	20.03	20.01	29.00	20.01
2007	—	9.64	23.70	21.09	25.42	16.38	47.16	23.23	8.40	21.40	21.38	29.26	21.38
2008	—	8.94	27.23	26.72	30.22	22.80	55.12	26.75	—	26.04	26.01	27.75	26.01
2009	—	8.71	20.32	17.52	23.41	12.44	56.07	20.05	—	18.55	18.51	29.17	18.51
2010	—	7.84	25.19	21.23	26.49	16.56	58.80	23.43	—	21.19	21.15	27.54	21.15
2011	—	4.65	31.64	26.94	31.14	22.76	69.54	28.84	—	26.89	26.84	25.15	26.84
2012	—	8.66	33.04	28.26	23.03	23.20	72.11	30.31	—	28.01	27.97	24.63	27.97
2013	—	R 8.98	32.71	27.44	24.19	22.19	69.42	29.15	—	26.98	26.94	24.82	R 26.94
2014	—	R 8.91	33.16	26.64	25.08	20.67	69.44	28.21	—	25.86	25.79	27.12	25.79
2015	—	R 8.74	24.86	19.08	15.00	12.41	67.28	23.16	—	19.42	19.37	26.70	19.37
2016	—	R 9.07	21.62	16.90	14.34	9.96	65.78	20.16	—	16.63	R 16.58	22.95	R 16.58
2017	—	R 9.47	24.13	19.63	18.85	12.10	67.25	22.46	—	R 18.94	R 18.89	25.22	R 18.89
2018	—	R 9.38	27.04	23.24	20.09	15.90	72.37	25.74	—	22.53	R 22.47	24.36	R 22.47
2019	—	R 11.19	25.57	22.40	17.53	14.76	74.92	26.12	—	22.30	R 22.25	24.94	R 22.25
2020	—	R 11.10	22.34	18.90	16.39	9.75	75.34	22.22	—	R 18.91	R 18.87	25.90	R 18.87
2021	—	R 10.96	28.86	24.12	24.52	14.44	81.25	29.00	—	24.46	R 24.40	22.63	R 24.40
2022	—	R 13.30	36.02	36.06	23.79	26.18	97.37	38.63	—	34.81	R 34.71	28.53	R 34.71
2023	—	16.56	32.62	31.71	18.69	20.99	105.48	35.31	—	30.53	30.46	37.38	30.46
	Expenditures in million dollars												
1970	(s)	—	2.0	13.0	(s)	19.2	2.6	115.3	(s)	152.1	152.1	—	152.1
1975	(s)	—	3.4	24.7	0.1	69.2	4.2	235.2	0.1	336.9	336.9	—	336.9
1980	—	—	9.4	118.0	0.1	266.2	7.3	578.0	—	978.9	978.9	—	978.9
1985	—	—	5.3	127.8	1.3	197.0	8.4	525.9	—	865.5	865.6	—	865.6
1990	—	—	5.2	172.1	1.0	212.9	10.7	702.1	—	1,104.0	1,107.6	—	1,107.6
1995	—	0.4	2.7	216.5	1.0	182.1	10.7	862.9	—	1,275.8	1,276.3	—	1,276.3
2000	—	1.8	4.5	450.7	0.1	369.8	12.2	1,541.0	—	2,378.4	2,380.2	—	2,380.2
2005	—	3.9	12.9	916.0	7.4	604.0	15.7	2,643.5	—	4,199.5	4,203.4	0.7	4,204.2
2006	—	4.5	15.6	1,148.4	5.9	739.2	19.0	3,074.9	—	5,002.9	5,007.4	0.8	5,008.2
2007	—	4.1	16.4	1,144.4	6.4	855.0	21.1	3,355.2	(s)	5,398.5	5,402.5	0.8	5,403.4
2008	—	4.0	20.2	1,216.3	13.7	997.6	22.9	3,656.9	—	5,927.6	5,931.7	0.8	5,932.5
2009	—	6.8	12.1	R 784.1	6.6	344.5	21.0	2,658.9	—	R 3,827.1	R 3,834.0	0.8	R 3,834.8
2010	—	6.8	8.7	R 934.4	0.8	1,212.5	68.8	3,056.8	—	R 5,282.1	R 5,288.9	0.8	R 5,289.7
2011	—	2.8	10.3	R 1,128.1	1.0	1,653.8	75.9	3,691.7	—	R 6,560.7	R 6,563.5	0.7	R 6,564.2
2012	—	5.3	9.5	R 1,142.5	0.6	1,673.5	72.1	3,861.3	—	R 6,759.5	R 6,764.8	0.7	R 6,765.5
2013	—	R 5.5	8.7	R 1,179.6	1.0	1,617.1	74.8	3,799.5	—	R 6,680.7	R 6,686.3	0.7	R 6,687.0
2014	—	R 9.0	10.8	R 1,090.5	3.4	1,541.7	74.5	3,679.1	—	R 6,400.0	R 6,409.0	0.8	R 6,409.8
2015	—	R 10.2	4.8	R 788.4	1.8	950.3	79.3	3,054.1	—	R 4,878.8	R 4,889.0	0.8	R 4,889.7
2016	—	R 17.9	4.1	R 743.2	2.7	811.8	76.1	2,723.3	—	R 4,361.2	R 4,379.1	0.7	R 4,379.7
2017	—	R 11.3	4.5	R 945.5	3.9	1,022.9	75.3	3,116.2	—	R 5,168.4	R 5,179.6	0.7	R 5,180.4
2018	—	R 12.0	6.0	R 1,114.3	2.5	R 1,302.6	77.4	3,653.4	—	R 6,156.2	R 6,168.2	0.7	R 6,168.9
2019	—	R 14.8	6.0	R 1,148.1	0.6	R 1,172.8	78.6	3,683.2	—	R 6,089.3	R 6,104.1	0.7	R 6,104.8
2020	—	R 13.0	4.8	R 966.7	0.3	R 477.7	R 70.3	2,666.4	—	R 4,186.1	R 4,199.2	0.4	R 4,199.5
2021	—	R 13.0	6.5	R 1,279.6	0.8	R 944.0	83.1	3,930.5	—	R 6,244.4	R 6,257.4	0.4	R 6,257.8
2022	—	R 16.4	8.4	R 1,911.4	1.2	R 2,027.8	R 107.3	5,390.3	—	R 9,446.4	R 9,462.9	0.7	R 9,463.6
2023	—	22.4	7.2	1,644.5	1.3	1,659.2	81.7	4,693.3	—	8,087.1	8,109.6	0.9	8,110.5

[a] Transportation use of natural gas as vehicle fuel only.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET7. Electric power sector price and expenditure estimates, selected years, 1970-2023, Nevada

Year	Coal	Natural gas [a]	Petroleum: Distillate fuel oil	Petroleum: Petroleum coke	Petroleum: Residual fuel oil	Petroleum: Total	Nuclear fuel	Biomass: Wood and waste [b]	Electricity imports [c]	Total energy [d]
	Prices in dollars per million Btu									
1970	0.31	0.38	0.70	—	0.61	0.62	—	—	—	0.36
1975	0.34	1.09	2.47	—	1.98	2.00	—	—	—	0.59
1980	1.05	2.59	5.58	—	3.58	3.60	—	—	—	1.68
1985	1.62	4.07	6.12	—	3.71	4.91	—	—	9.34	1.80
1990	1.49	1.96	6.47	—	2.93	3.50	—	—	8.37	1.59
1995	1.31	1.66	4.93	—	2.99	3.94	—	—	—	1.41
2000	1.26	4.75	7.22	—	5.66	6.25	—	—	—	2.63
2005	1.54	7.20	11.45	—	5.02	10.59	—	—	16.53	4.08
2006	1.73	6.60	13.34	—	8.08	11.66	—	—	17.32	5.09
2007	1.88	6.13	17.72	—	9.70	16.55	—	—	18.25	4.89
2008	2.20	7.93	23.60	—	—	23.60	—	—	18.28	6.19
2009	2.19	5.33	14.13	—	—	14.13	—	2.20	12.10	4.43
2010	2.43	5.58	17.92	—	—	17.92	—	—	13.31	4.66
2011	2.60	4.88	23.94	—	—	23.94	—	—	11.53	4.31
2012	2.55	3.40	25.23	—	—	25.23	—	2.21	9.51	3.27
2013	2.74	4.27	24.32	—	—	24.32	—	2.26	11.49	3.93
2014	2.48	5.10	23.43	—	—	23.43	—	2.73	13.31	4.35
2015	2.47	3.20	16.50	—	—	16.50	—	2.62	10.54	3.12
2016	2.02	2.90	11.79	—	—	11.79	—	2.54	8.74	2.82
2017	3.08	3.38	12.34	—	—	12.34	—	2.40	9.18	3.36
2018	3.07	3.16	18.47	—	—	18.47	—	2.22	10.74	3.16
2019	2.76	3.07	16.25	—	—	16.25	—	2.33	—	3.03
2020	2.34	2.65	14.28	—	—	14.28	—	1.80	—	2.62
2021	2.34	4.50	18.57	—	—	18.57	—	2.39	—	4.22
2022	3.29	R 7.92	26.85	—	—	26.85	—	2.69	—	R 7.28
2023	5.15	7.24	26.76	—	—	26.76	—	2.93	—	6.99
	Expenditures in million dollars									
1970	4.3	10.5	0.1	—	0.3	0.4	—	—	—	15.1
1975	34.1	29.3	0.8	—	15.7	16.5	—	—	—	79.8
1980	94.2	76.4	0.7	—	54.8	55.5	—	—	—	226.1
1985	199.9	35.0	1.9	—	1.2	3.1	—	—	0.9	239.0
1990	240.5	49.1	3.4	—	8.2	11.6	—	—	0.1	301.3
1995	205.3	105.5	0.8	—	0.5	1.3	—	—	—	312.1
2000	245.1	588.6	2.0	—	2.6	4.6	—	—	—	838.3
2005	297.7	1,102.2	2.5	—	0.2	2.7	—	—	16.3	1,418.8
2006	137.5	1,133.0	2.0	—	0.6	2.6	—	—	9.3	1,282.4
2007	147.2	1,082.0	2.2	—	0.2	2.4	—	—	21.4	1,253.0
2008	185.7	1,492.3	3.8	—	—	3.8	—	—	6.4	1,688.2
2009	176.1	1,056.3	2.6	—	—	2.6	—	(s)	1.5	1,236.6
2010	184.6	1,011.1	2.6	—	—	2.6	—	—	1.7	1,200.0
2011	156.2	813.9	3.9	—	—	3.9	—	—	7.1	981.1
2012	117.1	660.6	5.9	—	—	5.9	—	0.5	4.7	788.8
2013	156.8	801.0	4.8	—	—	4.8	—	0.6	0.7	963.9
2014	178.6	879.7	3.9	—	—	3.9	—	0.7	1.8	1,064.7
2015	73.5	700.4	3.0	—	—	3.0	—	0.7	0.4	778.0
2016	49.1	633.9	1.5	—	—	1.5	—	2.0	1.4	687.8
2017	66.2	689.9	1.3	—	—	1.3	—	2.0	1.4	760.8
2018	86.5	655.5	2.3	—	—	2.3	—	1.8	1.7	747.7
2019	84.2	618.1	2.3	—	—	2.3	—	2.1	—	706.8
2020	51.2	558.8	1.1	—	—	1.1	—	1.5	—	612.5
2021	70.8	917.3	1.7	—	—	1.7	—	1.7	—	991.4
2022	101.8	R 1,544.0	3.0	—	—	3.0	—	1.8	—	R 1,650.6
2023	128.2	1,347.3	2.8	—	—	2.8	—	2.1	—	1,480.5

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[c] Electricity imported from Canada and Mexico.
[d] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET1. Primary energy, electricity, and total energy price and expenditure estimates, selected years, 1970-2023, New Hampshire

	Primary energy																
	Coal				Petroleum								Biomass				
	Coking coal	Steam coal	Total	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Nuclear fuel	Wood and waste [g,h]	Total [h,i,j,k]	Electric power sector [l,k,l]	Electricity [m]	Total energy [h,i,j]
Year	Prices in dollars per million Btu																
1970	—	0.37	0.37	1.65	1.38	1.94	0.75	2.92	0.42	1.44	1.60	—	1.11	1.41	0.36	6.74	2.18
1975	—	1.22	1.22	2.24	2.80	3.41	2.10	4.54	1.85	2.99	3.23	—	1.31	2.85	1.43	12.68	4.32
1980	—	1.60	1.60	4.27	6.97	6.61	6.51	10.11	3.82	7.48	7.28	—	2.17	6.01	2.68	19.55	9.28
1985	—	2.02	2.02	6.44	7.47	11.55	6.53	9.26	3.81	7.47	7.77	—	2.15	6.35	2.83	23.28	10.31
1990	—	1.81	1.81	6.38	7.29	11.39	6.40	9.66	2.43	5.15	7.25	1.03	0.84	5.06	1.44	26.64	10.82
1995	—	1.59	1.59	5.48	5.95	10.71	4.12	10.02	2.42	6.04	7.62	0.54	1.04	4.42	1.10	34.36	11.76
2000	—	1.49	1.49	7.57	9.17	13.16	6.91	12.40	3.74	9.66	10.66	0.41	1.08	6.41	1.56	32.98	13.68
2005	—	2.44	2.44	10.44	14.76	18.96	12.74	17.96	6.05	10.64	15.20	0.41	2.78	9.09	3.27	36.71	18.46
2006	—	2.56	2.56	9.71	17.15	21.07	14.92	20.64	7.91	14.19	18.59	0.42	3.54	10.23	2.87	40.56	21.84
2007	—	2.90	2.90	10.21	18.90	23.43	16.47	22.27	8.95	15.27	20.36	0.46	4.06	10.66	2.87	40.98	23.25
2008	—	3.53	3.53	12.83	24.64	27.46	23.06	26.30	11.27	14.25	24.78	0.48	4.24	13.39	4.40	42.89	26.66
2009	—	3.66	3.66	8.60	17.16	24.35	12.87	19.18	9.29	18.22	18.59	0.55	4.33	10.20	2.74	44.23	22.09
2010	—	3.80	3.80	8.07	19.91	26.00	16.41	22.85	12.52	R 22.43	R 21.85	0.64	4.70	R 10.80	2.57	43.48	R 24.17
2011	—	3.55	3.55	7.98	25.08	29.34	22.95	29.27	16.96	R 26.26	R 27.58	0.67	4.78	R 13.98	3.03	43.20	R 27.73
2012	—	4.07	4.07	7.37	27.59	26.52	23.55	30.22	17.81	R 25.90	R 28.69	0.73	4.45	14.29	2.78	41.60	R 28.39
2013	—	4.21	4.21	R 10.19	R 26.80	25.87	22.59	29.49	18.43	R 26.89	R 27.99	0.77	4.73	13.86	2.88	41.91	27.68
2014	—	4.27	4.27	9.25	26.08	28.46	21.02	28.34	15.90	R 26.99	R 27.34	0.72	4.88	14.06	2.69	44.61	R 27.79
2015	—	3.87	3.87	R 7.95	17.94	22.94	12.79	20.04	9.89	R 23.89	R 19.66	0.72	4.57	R 10.54	2.52	46.95	R 22.58
2016	—	4.07	4.07	6.90	R 15.10	22.98	10.41	18.03	7.38	R 21.85	R 17.63	0.71	R 4.10	R 9.20	1.96	45.88	R 20.99
2017	—	4.34	4.34	7.74	16.98	25.82	12.30	20.25	10.03	17.88	19.48	0.71	R 4.22	10.56	1.95	47.39	22.28
2018	—	3.87	3.87	R 9.43	19.73	26.86	16.27	22.60	11.83	24.86	21.99	0.68	R 3.51	11.92	1.95	49.87	24.52
2019	—	3.35	3.35	9.85	18.88	23.68	15.21	21.18	11.86	R 27.52	20.72	0.65	R 3.69	11.16	2.03	50.28	R 23.53
2020	—	3.11	3.11	7.01	15.78	22.05	10.58	17.83	9.33	R 23.51	17.62	0.62	R 2.86	R 9.41	1.25	48.75	R 21.64
2021	—	3.99	3.99	7.87	19.68	27.68	15.33	24.24	13.82	R 27.42	23.06	0.73	R 3.50	12.09	1.78	50.92	R 25.83
2022	—	4.55	4.55	11.96	R 31.57	30.81	26.99	32.65	21.90	R 35.35	R 31.89	0.59	5.23	16.56	2.93	61.74	34.11
2023	—	5.40	5.40	10.38	27.98	27.66	21.67	28.74	20.12	34.47	28.20	0.59	4.96	15.34	2.02	67.28	32.28
	Expenditures in million dollars																
1970	—	10.1	10.1	11.2	61.9	6.1	4.2	124.4	14.7	12.9	224.3	—	3.2	248.8	-15.6	83.5	316.7
1975	—	31.9	31.9	17.2	116.9	18.0	10.3	223.4	53.2	19.2	441.0	—	4.1	494.2	-58.2	207.7	643.7
1980	—	46.8	46.8	41.0	236.1	30.4	27.3	498.1	135.5	36.0	963.4	—	12.9	1,064.1	-150.9	394.5	1,307.7
1985	—	80.3	80.3	69.7	250.4	67.7	18.4	502.9	82.4	88.4	1,010.1	—	12.0	1,200.6	-160.0	588.4	1,629.0
1990	—	57.1	57.1	92.2	307.4	91.1	22.7	597.6	80.0	54.4	1,153.3	44.6	18.4	1,366.6	-164.8	816.3	2,018.1
1995	—	56.7	56.7	110.3	260.7	92.7	7.8	704.0	50.1	32.3	1,147.7	47.6	21.7	1,411.0	-171.4	1,055.9	2,295.5
2000	—	65.4	65.4	199.6	501.5	136.5	38.3	1,029.1	33.5	61.9	1,800.9	34.3	21.1	2,232.8	-240.1	1,143.1	3,135.7
2005	—	107.7	107.7	762.2	840.0	207.4	32.7	1,576.5	131.8	123.3	2,911.7	40.0	57.4	3,911.5	-717.0	1,408.4	4,602.9
2006	—	114.7	114.7	628.4	879.2	238.5	13.7	1,854.1	73.3	114.3	3,173.2	41.3	54.2	4,046.2	-586.9	1,535.5	4,994.9
2007	—	130.1	130.1	662.0	899.4	293.7	14.2	2,028.2	78.1	119.8	3,433.4	51.9	79.1	4,405.8	-638.3	1,570.9	5,338.4
2008	—	141.9	141.9	949.5	1,136.6	405.6	19.9	2,336.4	65.5	118.1	4,082.0	46.4	87.9	5,366.3	-931.4	1,606.3	6,041.2
2009	—	120.3	120.3	533.5	736.3	337.5	24.7	1,678.6	55.7	118.5	2,951.2	51.1	101.6	3,803.3	-512.8	1,614.6	4,905.1
2010	—	128.5	128.5	503.5	789.4	313.5	85.5	1,981.5	46.7	R 156.4	R 3,373.0	72.5	113.6	R 4,222.9	-538.0	1,615.8	R 5,300.6
2011	—	87.0	87.0	579.2	R 1,032.6	400.5	118.5	2,470.8	50.3	R 165.9	R 4,238.5	58.7	117.7	R 5,114.8	-547.1	1,602.2	R 6,170.0
2012	—	57.8	57.8	547.6	R 927.5	399.4	105.2	2,521.0	29.5	R 156.2	R 4,138.8	62.3	114.3	R 4,920.7	-474.1	1,542.8	R 5,989.4
2013	—	70.6	70.6	R 566.1	R 1,007.5	421.7	94.7	2,501.0	36.2	R 162.9	R 4,224.0	87.6	139.3	R 5,096.1	-527.3	1,579.1	R 6,147.9
2014	—	63.5	63.5	R 542.9	R 1,146.0	575.3	92.4	2,397.8	30.0	R 170.8	R 4,412.3	77.1	R 157.0	R 5,264.1	-483.6	1,665.7	R 6,446.2
2015	—	42.5	42.5	R 561.8	R 772.2	423.3	47.7	1,720.1	20.4	R 147.0	R 3,130.6	71.3	R 168.7	R 3,983.3	-456.6	1,762.0	R 5,288.7
2016	—	21.5	21.5	R 410.1	R 609.2	373.7	39.5	1,554.0	10.7	R 117.7	R 2,705.0	79.9	R 140.6	R 3,363.2	-348.5	1,707.2	R 4,721.8
2017	—	15.7	15.7	413.4	R 751.0	397.7	45.6	1,752.8	15.3	142.2	R 3,104.7	74.7	R 145.6	R 3,758.4	-312.2	1,744.3	R 5,190.5
2018	—	30.2	30.2	483.7	R 933.1	456.3	R 57.3	1,970.7	27.1	126.6	R 3,571.2	71.4	R 108.7	R 4,272.6	-306.9	1,879.5	5,845.2
2019	—	14.0	14.0	543.7	R 867.6	394.3	R 57.4	1,845.0	16.6	R 118.1	R 3,298.9	73.9	R 108.6	R 4,039.1	-330.3	1,837.5	R 5,546.4
2020	—	4.7	4.7	R 374.7	R 705.1	332.9	R 32.6	1,323.5	8.4	115.4	R 2,517.9	63.9	R 56.5	R 3,017.8	-179.4	1,778.7	R 4,617.0
2021	—	13.0	13.0	470.8	R 845.7	417.7	R 53.8	1,956.9	19.4	R 125.7	R 3,419.2	75.0	R 72.8	R 4,050.8	-271.7	1,888.0	R 5,667.0
2022	—	17.6	17.6	717.7	R 1,425.8	528.4	R 116.9	2,659.7	54.2	R 167.8	R 4,952.8	67.1	R 108.4	R 5,863.6	-487.2	2,279.1	R 7,655.5
2023	—	9.9	9.9	617.2	1,195.9	468.0	135.2	2,372.8	27.8	139.7	4,339.4	58.6	93.9	5,119.0	-293.2	2,440.5	7,266.3

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[l] Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
[m] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET2. Total end-use energy price and expenditure estimates, selected years, 1970-2023, New Hampshire

Year	Primary energy											Electricity [k]	Total energy [h,i,j]
			Petroleum							Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g,h]	Total [h,i,j]		
	Prices in dollars per million Btu												
1970	1.04	1.65	1.41	1.94	0.75	2.92	0.49	1.44	1.78	1.11	1.75	6.74	2.18
1975	2.64	2.27	2.80	3.41	2.09	4.54	1.85	2.99	3.40	1.31	3.28	12.68	4.32
1980	1.80	4.27	6.97	6.61	6.51	10.11	3.87	7.48	8.19	2.17	7.57	19.55	9.28
1985	2.48	6.44	7.48	11.55	6.53	9.26	4.20	7.47	8.30	2.15	7.84	23.28	10.31
1990	2.72	6.38	7.30	11.39	6.40	9.66	3.01	5.15	8.19	1.69	7.71	26.64	10.82
1995	2.46	5.95	5.96	10.71	4.12	10.02	2.55	6.04	8.05	1.70	7.54	34.36	11.76
2000	2.17	7.71	9.17	13.16	6.91	12.40	4.31	9.66	10.88	2.32	10.24	32.98	13.68
2005	3.30	13.42	14.79	18.96	12.74	17.96	6.77	10.64	15.91	3.54	15.14	36.71	18.46
2006	3.68	14.48	17.23	21.07	14.92	20.64	8.04	14.19	18.81	5.40	18.12	40.56	21.84
2007	3.75	14.92	18.94	23.43	16.47	22.27	9.22	15.27	20.62	6.07	19.69	40.98	23.25
2008	—	15.09	24.65	27.46	23.06	26.30	11.75	14.25	24.91	7.53	23.44	42.89	26.66
2009	—	13.89	17.17	24.35	12.87	19.18	10.66	18.22	18.74	6.14	17.73	44.23	22.09
2010	—	12.55	19.93	26.00	16.41	22.85	12.39	R 22.43	R 21.89	7.11	R 20.23	43.48	R 24.17
2011	—	12.01	25.09	29.34	22.95	29.27	16.09	R 26.26	R 27.62	6.80	R 24.64	43.20	R 27.73
2012	—	11.63	27.60	26.52	23.55	30.22	17.07	R 25.90	R 28.71	7.16	R 25.57	41.60	R 28.39
2013	—	11.81	26.83	25.87	22.59	29.49	19.59	R 26.89	R 28.06	7.18	R 24.78	41.91	27.68
2014	—	R 13.14	26.21	28.46	21.02	28.34	17.50	R 26.99	R 27.48	R 7.25	R 24.56	44.61	R 27.79
2015	—	R 12.95	17.99	22.94	12.79	20.04	9.72	R 23.89	R 19.75	R 5.54	R 17.93	46.95	R 22.58
2016	—	10.89	15.11	22.98	10.41	18.03	7.15	R 21.85	R 17.65	R 4.40	R 16.06	45.88	R 20.99
2017	—	11.21	17.02	25.82	12.30	20.25	9.73	17.88	19.52	R 4.89	R 17.57	47.39	22.28
2018	—	R 12.08	19.78	26.86	16.27	22.60	12.57	24.86	22.09	R 5.91	19.76	49.87	24.52
2019	—	11.97	R 18.88	23.68	15.21	21.18	11.98	R 27.52	20.73	R 5.87	R 18.62	50.28	R 23.53
2020	—	10.89	15.78	22.05	10.58	17.83	9.42	R 23.51	17.63	R 4.51	R 16.04	48.75	R 21.64
2021	—	12.19	19.70	27.68	15.33	24.24	14.09	R 27.42	23.09	R 5.31	R 20.72	50.92	R 25.83
2022	—	15.80	R 32.15	30.81	26.99	32.65	23.21	R 35.35	R 32.15	R 8.60	R 28.67	61.74	34.11
2023	—	15.78	28.02	27.66	21.67	28.74	21.12	34.47	28.23	7.81	25.56	67.28	32.28
	Expenditures in million dollars												
1970	0.4	11.2	61.5	6.1	4.2	124.4	9.2	12.9	218.4	3.2	233.3	83.5	316.7
1975	0.6	17.0	116.7	18.0	10.2	223.4	26.8	19.2	414.3	4.1	436.0	207.7	643.7
1980	0.6	41.0	235.7	30.4	27.0	498.1	31.5	36.0	858.7	12.9	913.2	394.5	1,307.7
1985	2.9	69.7	249.4	67.7	18.4	502.9	29.3	88.4	956.1	12.0	1,040.7	588.4	1,629.0
1990	2.7	92.2	306.1	91.1	22.7	597.6	23.7	54.4	1,095.7	11.2	1,201.8	816.3	2,018.1
1995	0.5	106.1	259.6	92.7	7.8	704.0	24.4	32.3	1,120.9	12.1	1,239.6	1,055.9	2,295.5
2000	0.2	196.9	500.3	136.5	38.3	1,029.1	18.2	61.9	1,784.3	11.3	1,992.7	1,143.1	3,135.7
2005	0.3	336.0	830.3	207.4	32.7	1,576.5	59.4	123.3	2,829.6	28.6	3,194.5	1,408.4	4,602.9
2006	0.4	312.7	858.1	238.5	13.7	1,854.1	53.1	114.3	3,131.8	14.4	3,459.4	1,535.5	4,994.9
2007	0.3	353.3	891.8	293.7	14.2	2,028.2	49.3	119.8	3,396.9	17.0	3,767.5	1,570.9	5,338.4
2008	—	346.2	1,133.4	405.6	19.9	2,336.4	52.4	118.1	4,065.9	22.9	4,434.9	1,606.3	6,041.2
2009	—	314.0	734.5	337.5	24.7	1,678.6	45.0	118.5	R 2,938.7	37.7	3,290.5	1,614.6	4,905.1
2010	—	274.5	786.9	313.5	85.5	1,981.5	39.3	R 156.4	R 3,363.1	47.3	R 3,684.9	1,615.8	R 5,300.6
2011	—	286.0	R 1,030.9	400.5	118.5	2,470.8	36.3	R 165.9	R 4,222.9	58.9	R 4,567.8	1,602.2	R 6,170.0
2012	—	259.4	926.4	399.4	105.2	2,521.0	24.4	R 156.2	R 4,132.4	54.8	R 4,446.6	1,542.8	R 5,989.4
2013	—	R 296.0	R 1,000.6	421.7	94.7	2,501.0	23.8	R 162.9	R 4,204.7	68.1	R 4,568.8	1,579.1	R 6,147.9
2014	—	R 348.0	R 1,116.5	575.3	92.4	2,397.8	11.9	R 170.8	R 4,364.7	R 67.8	R 4,780.5	1,665.7	R 6,446.2
2015	—	R 345.7	R 766.0	423.3	47.7	1,720.1	8.1	R 147.0	R 3,112.2	R 68.8	R 3,526.7	1,762.0	R 5,288.7
2016	—	R 268.5	R 608.5	373.7	39.5	1,554.0	8.7	R 117.7	R 2,702.3	R 43.8	R 3,014.6	1,707.2	R 4,721.8
2017	—	299.3	R 743.3	397.7	45.6	1,752.8	12.0	142.2	R 3,093.5	R 53.4	R 3,446.2	1,744.3	R 5,190.5
2018	—	R 351.5	R 925.2	456.3	R 57.3	1,970.7	13.8	126.6	R 3,550.0	R 64.2	3,965.7	1,879.5	5,845.2
2019	—	346.3	R 866.3	394.3	R 57.4	1,845.0	15.2	R 118.1	R 3,296.2	R 66.3	R 3,708.8	1,837.5	R 5,546.4
2020	—	289.5	R 701.7	332.9	R 32.6	1,323.5	8.0	115.4	R 2,514.1	R 34.7	R 2,838.3	1,778.7	R 4,617.0
2021	—	325.7	R 840.0	417.7	R 53.8	1,956.9	17.3	R 125.7	R 3,411.5	R 41.9	R 3,779.1	1,888.0	R 5,667.0
2022	—	R 426.6	R 1,371.2	528.4	R 116.9	2,659.7	29.2	R 167.8	R 4,873.3	76.6	R 5,376.4	2,279.1	R 7,655.5
2023	—	435.8	1,190.6	468.0	135.2	2,372.8	22.1	139.7	4,328.4	61.5	4,825.8	2,440.5	7,266.3

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. · Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2023, New Hampshire

Year	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
	Prices in dollars per million Btu									
1970	1.29	1.97	1.51	2.54	1.58	1.55	0.56	1.56	8.29	2.23
1975	2.62	2.62	2.87	4.70	3.16	3.00	1.11	2.91	14.25	4.56
1980	3.90	4.57	7.24	9.22	8.15	7.46	2.85	6.62	20.93	9.64
1985	4.39	6.96	7.38	11.14	8.48	7.93	3.22	7.51	26.15	11.51
1990	4.23	7.31	7.41	11.90	6.25	8.06	2.83	7.63	30.30	13.02
1995	3.94	7.09	5.62	11.86	4.44	6.55	2.30	6.39	39.57	13.50
2000	3.53	9.52	9.25	14.26	11.10	10.19	3.50	9.80	38.54	16.14
2005	5.42	14.68	14.24	20.13	14.29	15.31	5.48	14.80	39.59	20.80
2006	5.69	16.07	16.52	22.62	16.99	17.74	6.31	16.98	43.03	23.82
2007	5.69	16.30	18.41	24.83	21.21	20.10	6.97	18.82	43.61	25.36
2008	—	16.12	23.30	29.33	25.57	25.07	8.59	22.69	45.97	28.77
2009	—	14.82	17.28	26.33	20.86	20.32	6.45	17.75	48.04	25.63
2010	—	14.01	19.49	28.01	23.64	22.28	7.61	18.80	47.83	26.97
2011	—	14.15	23.65	31.80	27.64	26.22	9.15	21.88	48.42	29.12
2012	—	13.31	27.09	30.84	29.59	28.54	10.19	23.18	47.10	30.59
2013	—	13.43	26.52	29.75	29.53	27.71	9.98	22.60	47.86	29.62
2014	—	15.78	25.85	32.54	29.90	28.46	9.73	24.00	51.38	30.77
2015	—	15.71	17.74	28.41	16.01	21.45	6.71	18.00	54.22	26.62
2016	—	13.83	15.09	29.19	12.76	R 19.65	5.73	R 16.77	53.87	R 26.25
2017	—	14.12	16.91	31.35	15.96	R 21.00	6.41	17.86	56.29	R 27.05
2018	—	14.88	18.73	31.90	23.06	22.65	7.09	R 19.15	57.70	R 28.04
2019	—	15.26	17.89	28.70	21.53	R 21.17	6.82	17.99	58.76	R 27.24
2020	—	14.20	15.06	26.75	13.99	18.38	5.64	R 16.37	55.80	R 26.72
2021	—	15.80	18.16	31.87	22.09	22.63	6.77	R 19.51	58.18	30.48
2022	—	19.79	28.87	35.84	36.93	31.46	R 10.47	R 26.51	74.61	R 39.53
2023	—	20.32	26.54	33.25	32.45	29.01	9.58	25.18	82.51	40.62
	Expenditures in million dollars									
1970	0.1	7.3	53.0	3.8	6.3	63.1	0.6	71.1	41.8	112.9
1975	0.1	9.9	95.5	10.3	7.3	113.1	1.4	124.5	104.5	228.9
1980	0.1	20.2	148.4	17.2	14.9	180.5	8.5	209.2	177.0	386.2
1985	0.2	33.6	155.6	30.3	41.1	227.0	6.9	267.7	254.4	522.1
1990	0.3	43.7	174.2	54.8	8.3	237.2	6.3	287.5	356.1	643.7
1995	0.1	46.6	145.5	62.6	8.3	216.5	5.6	268.8	454.2	723.1
2000	(s)	73.2	246.2	81.5	24.7	352.4	6.3	432.0	480.8	912.9
2005	(s)	116.7	397.1	139.4	45.4	581.9	11.0	709.8	607.2	1,316.9
2006	0.1	110.0	406.3	147.4	41.8	595.6	11.3	716.9	646.1	1,363.0
2007	(s)	123.5	433.2	198.7	35.8	667.7	13.8	805.0	668.5	1,473.5
2008	—	116.0	532.6	274.4	20.3	827.4	19.0	962.4	689.2	1,651.5
2009	—	110.6	338.5	258.2	21.8	618.6	32.3	761.4	724.7	1,486.1
2010	—	97.4	341.6	233.2	21.9	596.7	40.9	735.0	732.0	1,467.0
2011	—	102.0	447.6	271.9	18.4	737.9	47.6	887.6	735.8	1,623.4
2012	—	88.2	376.6	265.8	7.3	649.6	44.3	782.2	713.4	1,495.6
2013	—	99.4	R 458.1	289.9	9.0	R 757.0	56.6	R 913.1	743.6	R 1,656.7
2014	—	126.2	R 519.1	411.9	13.1	R 944.2	55.9	R 1,126.2	790.7	R 1,916.9
2015	—	126.9	R 374.0	327.0	5.9	R 707.0	56.6	R 890.4	837.5	R 1,728.0
2016	—	97.8	R 305.5	294.3	7.5	R 607.3	R 35.4	R 740.5	815.8	R 1,556.2
2017	—	106.7	R 402.5	301.1	6.9	R 710.5	43.6	R 860.8	853.0	R 1,713.7
2018	—	124.9	R 478.2	343.9	10.1	R 832.2	R 54.5	R 1,011.6	913.6	R 1,925.2
2019	—	126.5	R 440.0	307.4	12.3	R 759.7	R 56.1	R 942.3	903.6	R 1,845.8
2020	—	108.5	R 351.8	256.2	8.5	R 616.5	R 26.6	R 751.7	912.0	R 1,663.6
2021	—	121.3	R 350.6	297.8	9.5	R 657.8	R 33.0	R 812.1	959.2	R 1,771.4
2022	—	152.3	R 552.2	388.8	13.9	R 955.0	R 64.3	R 1,171.6	1,224.1	R 2,395.7
2023	—	148.1	511.0	354.0	22.6	887.7	50.0	1,085.8	1,310.5	2,396.2

[a] Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2023, New Hampshire

Year	Primary energy										Electricity [j]	Total energy [g,h,i]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f,g]	Total [g,h,i]		
	Prices in dollars per million Btu											
1970	0.95	1.42	1.11	1.35	0.74	2.92	0.34	1.15	0.56	1.23	8.80	3.05
1975	2.65	2.10	2.46	2.35	2.54	4.54	1.85	2.51	1.11	2.37	15.39	5.99
1980	1.69	4.05	6.44	4.57	6.27	10.11	3.76	5.88	2.85	5.31	24.30	9.31
1985	2.41	6.13	6.53	11.02	8.48	9.26	4.20	7.52	3.22	6.82	25.55	12.82
1990	2.62	6.64	5.83	10.19	6.25	9.66	3.06	5.75	2.83	5.90	28.33	11.76
1995	2.26	6.37	4.68	9.51	4.44	10.02	2.55	5.12	2.30	5.48	33.45	16.02
2000	2.00	8.06	7.11	11.84	11.10	12.40	4.31	7.84	3.50	7.84	31.83	16.45
2005	3.12	13.42	12.89	15.92	14.29	17.96	6.77	10.91	5.48	11.66	35.34	19.71
2006	3.48	14.75	15.34	17.69	16.99	20.64	8.04	14.67	6.31	14.54	41.23	25.66
2007	3.54	15.04	16.78	19.63	21.21	22.27	9.22	16.03	6.97	15.45	40.78	25.72
2008	—	14.91	22.69	22.91	25.57	26.30	11.75	20.93	8.59	18.08	41.90	27.60
2009	—	13.90	15.91	18.47	20.86	19.18	10.66	15.80	6.45	14.65	42.09	25.65
2010	—	12.32	18.47	21.33	23.64	22.85	12.39	18.59	7.61	15.53	41.77	26.78
2011	—	11.05	24.63	24.58	27.64	29.27	16.09	23.65	9.15	17.99	41.16	27.42
2012	—	11.58	27.60	20.55	29.59	30.22	17.06	23.21	7.52	17.90	39.16	26.88
2013	—	11.77	25.68	19.91	29.53	29.49	19.61	22.35	6.28	16.94	39.63	26.26
2014	—	14.51	25.17	21.43	29.90	28.34	17.58	23.06	R 6.35	R 18.83	42.03	R 27.79
2015	—	13.23	14.63	13.86	16.01	20.04	9.72	14.78	R 5.20	R 13.58	43.86	R 24.95
2016	—	11.03	12.27	12.83	12.76	18.03	7.15	12.88	R 4.12	R 11.67	42.30	R 23.67
2017	—	11.36	13.97	16.72	15.96	20.25	9.73	15.46	R 4.29	R 12.94	43.39	R 25.01
2018	—	12.33	18.20	18.12	23.06	22.60	12.57	18.29	R 4.79	R 15.00	46.35	R 26.74
2019	—	12.09	16.94	14.64	21.53	21.18	11.98	16.16	R 4.94	R 13.81	46.70	R 25.81
2020	—	10.93	11.73	13.91	13.99	17.83	9.42	13.34	R 3.93	R 11.77	45.17	R 24.26
2021	—	12.20	18.10	20.89	22.09	24.24	14.09	19.72	R 4.49	R 15.77	47.27	R 27.35
2022	—	15.67	31.74	22.18	36.93	32.65	23.21	26.98	R 6.73	R 21.29	54.78	R 33.37
2023	—	15.50	24.35	18.19	32.45	28.74	21.12	22.02	6.58	18.49	59.80	33.24
	Expenditures in million dollars											
1970	0.1	3.2	4.1	0.9	0.1	0.7	0.2	5.9	(s)	9.2	21.0	30.2
1975	0.2	5.5	8.5	2.2	0.2	1.2	0.7	12.8	(s)	18.5	46.4	65.0
1980	0.1	17.0	39.2	3.6	0.3	6.2	8.8	58.1	0.2	75.4	92.0	167.4
1985	0.3	31.2	23.4	12.7	2.0	6.1	2.3	46.4	0.2	78.1	137.9	216.1
1990	0.6	34.1	48.1	19.8	0.9	3.7	12.5	85.0	0.7	120.5	204.7	325.1
1995	0.4	41.9	30.8	21.2	1.1	0.6	7.0	60.6	0.8	103.7	383.1	486.8
2000	0.2	70.9	78.7	28.6	3.0	0.9	3.4	114.6	1.1	186.7	424.1	610.8
2005	0.3	134.8	115.4	41.0	5.0	1.6	53.3	216.2	1.8	353.0	551.7	904.7
2006	0.3	127.7	100.9	46.9	4.4	13.8	20.6	186.7	1.9	316.6	641.8	958.4
2007	0.3	144.3	108.0	62.3	4.7	5.4	25.6	206.0	2.2	352.8	635.9	988.7
2008	—	152.8	126.1	100.9	1.7	8.2	26.3	263.1	2.9	418.8	645.9	1,064.7
2009	—	142.8	96.0	60.0	1.6	4.7	21.8	184.2	4.6	331.5	637.7	969.2
2010	—	106.9	104.6	70.7	1.7	6.2	19.7	202.9	5.3	315.1	636.0	951.1
2011	—	101.9	153.6	103.7	1.7	7.9	25.1	291.9	6.1	399.9	628.8	1,028.7
2012	—	97.2	124.0	120.8	0.6	8.4	17.1	270.9	6.4	374.5	598.4	972.8
2013	—	111.6	R 111.7	117.4	0.8	8.5	16.7	R 255.0	7.5	R 374.2	610.7	R 984.9
2014	—	140.8	R 141.3	149.0	1.4	8.2	7.4	R 307.3	R 7.4	R 455.5	640.2	1,095.7
2015	—	131.3	R 77.2	88.5	0.5	35.4	5.3	R 206.8	R 8.2	R 346.3	672.1	R 1,018.4
2016	—	96.7	R 58.5	74.2	0.7	32.7	7.5	R 173.6	R 5.8	R 276.1	644.6	R 920.7
2017	—	106.3	R 64.1	73.6	0.7	32.4	10.8	R 181.6	R 7.3	R 295.2	649.9	R 945.2
2018	—	128.8	R 90.8	102.6	1.0	36.5	12.5	R 243.5	R 7.5	R 379.8	702.5	R 1,082.4
2019	—	126.5	R 87.3	81.1	1.7	34.6	12.3	R 216.9	R 7.6	R 351.0	682.1	R 1,033.1
2020	—	102.0	R 55.3	71.1	0.8	29.3	6.6	R 163.0	R 5.8	R 270.8	621.0	R 891.9
2021	—	117.7	R 87.4	111.9	1.0	40.1	15.1	R 255.5	R 6.7	R 379.9	662.4	R 1,042.3
2022	—	151.8	R 149.9	131.1	1.5	55.7	25.4	R 363.6	R 10.3	R 525.7	763.4	R 1,289.2
2023	—	156.2	115.7	107.3	2.4	49.6	19.2	294.3	9.5	459.9	826.5	1,286.4

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[g] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[j] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: Expenditure totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2023, New Hampshire

	Primary energy													
	Coal				Petroleum						Biomass			
	Coking coal	Steam coal	Total	Natural gas [a]	Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e,f]	Total [f,g,h]	Electricity [i]	Total energy [f,g,h]
Year	Prices in dollars per million Btu													
1970	—	0.95	0.95	0.84	0.69	1.42	2.92	0.51	1.02	0.66	1.45	0.72	4.18	1.22
1975	—	2.65	2.65	1.44	2.29	2.56	4.54	1.85	2.50	2.09	1.45	2.02	9.42	3.44
1980	—	1.69	1.69	3.85	5.73	4.98	10.11	3.95	5.81	4.94	1.46	4.24	15.82	7.92
1985	—	2.41	2.41	5.41	6.04	12.38	9.26	4.20	6.05	6.11	1.46	5.24	19.32	9.59
1990	—	2.62	2.62	4.30	6.02	11.36	9.66	3.06	4.25	5.02	1.02	4.18	21.91	9.86
1995	—	2.26	2.26	3.76	4.69	7.48	10.02	2.55	5.15	4.15	1.32	3.53	28.01	9.78
2000	—	—	—	5.84	6.34	11.79	12.40	4.31	7.06	7.30	1.41	6.13	26.87	11.55
2005	—	—	—	12.01	13.64	18.79	17.96	6.77	7.45	11.34	2.76	9.79	33.64	14.67
2006	—	—	—	12.31	16.36	20.52	20.64	8.04	10.26	13.55	2.15	12.94	34.05	18.00
2007	—	—	—	13.12	18.52	24.16	22.27	9.22	10.90	14.41	1.97	13.68	35.96	19.69
2008	—	—	—	14.09	23.62	30.87	26.30	11.75	10.85	16.18	2.09	15.27	38.49	21.23
2009	—	—	—	12.44	15.39	24.20	19.18	10.66	15.41	15.34	1.99	14.19	40.25	21.15
2010	—	—	—	11.23	18.05	22.85	22.85	12.39	R 18.10	R 17.83	1.91	R 14.98	37.39	R 21.09
2011	—	—	—	11.16	22.89	28.28	29.27	16.09	R 21.03	R 22.57	1.84	R 15.49	35.95	R 20.57
2012	—	—	—	10.15	24.00	22.82	30.22	17.06	R 21.03	R 22.60	1.66	R 15.14	34.68	R 20.22
2013	—	—	—	10.36	23.13	21.95	29.49	19.61	R 22.21	R 23.07	1.52	R 15.32	33.41	R 19.78
2014	—	—	—	9.18	22.94	24.02	28.34	17.58	R 22.14	R 22.86	1.83	R 14.79	34.96	R 19.66
2015	—	—	—	10.03	14.72	13.77	20.04	9.72	R 19.41	R 17.67	1.69	R 12.46	37.33	R 18.73
2016	—	—	—	8.34	12.07	12.36	18.03	7.15	R 17.36	R 15.60	1.13	R 10.33	36.16	R 17.28
2017	—	—	—	8.82	13.13	16.43	20.25	9.73	14.25	14.78	1.00	10.84	36.16	16.49
2018	—	—	—	9.51	17.15	17.83	22.60	12.57	19.14	18.84	1.35	12.50	39.33	19.36
2019	—	—	—	9.16	15.73	14.35	21.18	11.98	R 21.57	R 18.88	1.70	R 12.12	38.36	R 18.99
2020	—	—	—	8.20	11.27	13.61	17.83	9.42	R 19.51	16.32	1.53	10.92	38.43	17.97
2021	—	—	—	9.23	15.43	20.57	24.24	14.09	R 21.18	R 19.73	1.41	R 12.71	40.47	R 20.16
2022	—	—	—	12.73	26.25	21.83	32.65	23.21	R 27.05	R 27.20	R 1.57	R 17.81	44.39	R 24.88
2023	—	—	—	12.82	22.60	17.83	28.74	21.12	26.09	24.80	1.68	16.31	46.20	24.37
	Expenditures in million dollars													
1970	—	0.2	0.2	0.7	2.0	1.4	0.6	9.1	4.4	17.5	2.6	21.0	20.7	41.7
1975	—	0.4	0.4	1.6	5.7	5.5	0.7	26.1	8.9	46.9	2.6	51.4	56.9	108.3
1980	—	0.4	0.4	3.9	18.6	8.3	1.4	21.7	13.8	63.8	4.2	72.3	125.5	197.7
1985	—	2.4	2.4	5.0	15.1	23.5	3.0	27.0	38.1	106.7	4.9	119.0	196.1	315.0
1990	—	1.8	1.8	14.3	18.1	15.7	2.8	10.0	36.6	83.3	4.2	103.7	255.5	359.2
1995	—	(s)	(s)	17.5	11.8	8.1	5.7	17.5	14.2	57.3	5.7	80.5	218.5	299.0
2000	—	—	—	52.8	21.4	26.5	10.4	14.8	24.1	97.1	3.9	153.8	238.1	391.9
2005	—	—	—	84.4	62.1	26.4	32.6	6.1	55.1	182.3	15.8	282.5	249.5	532.0
2006	—	—	—	74.9	58.2	43.4	38.6	32.4	49.1	221.7	1.2	297.9	247.6	545.4
2007	—	—	—	85.2	52.5	32.0	21.6	23.7	58.7	188.4	1.0	274.6	266.6	541.3
2008	—	—	—	77.2	85.0	26.2	20.3	26.1	75.8	233.4	1.0	311.6	271.2	582.8
2009	—	—	—	60.3	51.6	18.6	14.2	23.2	75.1	182.8	0.9	243.9	252.2	496.1
2010	—	—	—	69.8	49.2	9.3	20.9	19.6	R 94.8	R 193.8	1.1	R 264.7	247.7	R 512.5
2011	—	—	—	82.0	56.6	24.4	27.8	11.2	R 103.0	R 222.9	5.1	R 310.0	237.5	R 547.5
2012	—	—	—	73.4	54.1	12.3	27.9	7.0	R 108.1	R 209.3	4.1	R 286.8	231.0	R 517.8
2013	—	—	—	84.0	64.5	13.9	28.3	7.0	R 113.1	R 226.8	4.0	R 314.8	224.8	R 539.6
2014	—	—	—	80.0	73.9	13.6	21.2	4.4	R 115.0	R 228.1	4.5	R 312.5	234.9	R 547.4
2015	—	—	—	86.6	33.6	6.8	18.0	2.8	R 98.4	R 159.6	4.1	R 250.3	252.3	R 502.6
2016	—	—	—	72.6	24.1	3.5	16.2	1.2	R 71.2	R 116.3	2.7	R 191.6	246.8	R 438.4
2017	—	—	—	86.3	23.7	22.2	18.5	1.2	98.0	163.5	2.4	252.3	241.3	493.6
2018	—	—	—	97.3	35.3	9.7	21.0	1.3	76.7	144.1	2.2	243.5	263.4	506.9
2019	—	—	—	92.9	34.4	5.6	19.7	2.9	R 66.0	R 128.7	2.6	R 224.2	251.8	R 476.1
2020	—	—	—	78.7	25.1	5.4	16.8	1.4	R 73.0	R 121.6	2.3	202.6	245.7	R 448.3
2021	—	—	—	86.6	31.6	7.9	22.5	2.2	R 75.2	R 139.5	2.1	R 228.1	266.3	R 494.5
2022	—	—	—	122.2	54.3	8.3	31.5	3.8	R 101.1	R 198.9	R 1.9	R 323.1	291.6	R 614.7
2023	—	—	—	131.4	45.6	6.5	27.9	2.9	73.7	156.6	2.0	290.1	303.5	593.6

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[i] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET6. Transportation sector energy price and expenditure estimates, selected years, 1970-2023, New Hampshire

	Primary energy												
			Petroleum										
	Coal	Natural gas[a]	Aviation gasoline	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Lubricants	Motor gasoline [e]	Residual fuel oil	Total	Total [f]	Electricity [g]	Total energy [f]
Year	Prices in dollars per million Btu												
1970	0.95	—	2.17	1.32	1.35	0.75	5.08	2.92	(s)	2.60	2.60	—	2.60
1975	2.65	—	3.45	2.90	2.35	2.09	7.48	4.54	1.90	4.27	4.27	—	4.27
1980	—	—	9.02	7.38	4.57	6.51	14.36	10.11	3.18	9.62	9.62	—	9.62
1985	—	—	9.99	8.95	12.99	6.53	18.18	9.26	—	9.16	9.16	—	9.16
1990	—	—	9.32	9.17	12.42	6.40	20.61	9.66	2.32	9.46	9.46	—	9.46
1995	—	6.10	8.36	8.34	11.68	4.12	21.75	10.02	—	9.76	9.76	—	9.76
2000	—	2.57	10.87	11.43	—	6.91	23.20	12.40	—	12.01	12.01	—	12.01
2005	—	10.12	18.56	17.34	17.81	12.74	35.22	17.96	—	17.80	17.80	—	17.80
2006	—	12.81	22.31	19.43	19.76	14.92	43.88	20.64	—	20.49	20.49	—	20.49
2007	—	12.52	23.70	20.85	21.45	16.47	47.16	22.27	—	22.11	22.11	—	22.11
2008	—	13.53	27.23	27.90	25.31	23.06	55.12	26.30	—	26.57	26.57	—	26.57
2009	—	12.56	20.32	17.99	19.61	12.87	56.07	19.18	—	19.00	19.00	—	19.00
2010	—	12.09	25.19	21.47	22.82	16.41	58.80	22.85	—	22.55	22.55	—	22.55
2011	—	4.13	31.64	27.71	26.69	22.95	69.54	29.27	—	28.96	28.95	—	28.95
2012	—	14.17	33.04	28.77	22.49	23.55	72.11	30.22	18.23	29.95	29.94	—	29.94
2013	—	R 14.56	32.71	28.45	21.82	22.59	69.42	29.49	13.88	29.28	29.27	—	29.27
2014	—	R 14.73	33.16	27.95	23.64	21.02	69.44	28.34	13.20	28.19	28.18	—	28.18
2015	—	R 14.39	24.86	20.17	15.98	12.79	67.28	20.04	—	20.07	20.06	—	20.06
2016	—	R 14.08	21.62	16.62	14.90	10.41	65.78	18.03	—	17.82	17.82	—	17.82
2017	—	R 13.40	24.13	18.78	18.25	12.30	67.25	20.25	—	20.01	20.01	—	20.01
2018	—	R 13.76	27.04	22.59	19.42	16.27	72.37	22.60	—	22.63	22.62	—	22.62
2019	—	R 14.37	25.57	21.85	16.68	15.21	74.92	21.18	—	21.30	21.30	—	21.30
2020	—	R 14.25	22.34	19.01	15.35	10.58	75.34	17.83	—	18.04	18.04	—	18.04
2021	—	R 15.04	28.86	22.51	21.00	15.33	81.25	24.24	—	23.91	23.90	—	23.90
2022	—	R 18.43	36.02	36.76	21.67	26.99	97.37	32.65	—	R 33.41	33.40	—	33.40
2023	—	20.64	32.62	31.48	18.41	21.67	105.48	28.74	—	29.02	29.02	—	29.02
	Expenditures in million dollars												
1970	(s)	—	0.4	2.4	(s)	4.2	1.7	123.1	(s)	131.9	131.9	—	131.9
1975	(s)	—	0.6	7.1	(s)	10.2	2.2	221.4	0.1	241.5	241.5	—	241.5
1980	—	—	1.8	29.5	1.3	27.0	5.2	490.5	1.0	556.4	556.4	—	556.4
1985	—	—	1.2	55.3	1.2	18.4	6.0	493.7	—	575.9	575.9	—	575.9
1990	—	—	1.0	65.8	0.7	22.7	7.7	591.1	1.2	690.1	690.1	—	690.1
1995	—	0.1	0.9	71.5	0.8	7.8	7.7	697.7	—	786.5	786.6	—	786.6
2000	—	(s)	1.3	153.9	—	38.3	8.8	1,017.8	—	1,220.1	1,220.1	—	1,220.1
2005	—	0.1	6.4	255.7	0.7	32.7	11.3	1,542.4	—	1,849.1	1,849.3	—	1,849.3
2006	—	0.1	5.2	292.7	0.8	13.7	13.7	1,801.7	—	2,127.9	2,128.0	—	2,128.0
2007	—	0.1	5.5	298.1	0.6	14.2	15.2	2,001.2	—	2,334.8	2,335.0	—	2,335.0
2008	—	0.2	3.9	389.8	4.1	19.9	16.5	2,307.9	—	2,742.0	2,742.2	—	2,742.2
2009	—	0.4	4.8	248.3	0.6	24.7	15.1	1,659.7	—	1,953.2	1,953.6	—	1,953.6
2010	—	0.3	3.9	291.4	0.4	85.5	34.0	1,954.4	—	2,369.7	2,370.1	—	2,370.1
2011	—	0.2	4.6	R 373.2	0.6	118.5	38.2	2,435.1	—	R 2,970.2	R 2,970.4	—	R 2,970.4
2012	—	0.5	4.2	R 371.7	0.5	105.2	36.1	2,484.7	0.2	3,002.6	R 3,003.1	—	R 3,003.1
2013	—	R 0.9	3.6	R 366.3	0.5	94.7	36.4	2,464.2	0.1	R 2,965.8	R 2,966.7	—	R 2,966.7
2014	—	R 1.0	3.4	R 382.0	0.7	92.4	37.9	2,368.5	0.2	R 2,885.1	2,886.1	—	2,886.1
2015	—	R 1.0	2.3	R 281.2	1.0	47.7	39.9	1,666.7	—	R 2,038.8	R 2,039.8	—	R 2,039.8
2016	—	1.4	2.0	R 220.4	1.6	39.5	36.3	1,505.1	—	R 1,805.0	1,806.5	—	1,806.5
2017	—	(s)	2.1	R 253.0	0.9	45.6	34.4	1,701.9	—	R 2,038.0	R 2,038.0	—	R 2,038.0
2018	—	0.5	3.0	R 320.8	0.1	R 57.3	35.8	1,913.1	—	R 2,330.2	R 2,330.7	—	R 2,330.7
2019	—	0.3	2.9	304.7	0.1	R 57.4	R 35.3	1,790.7	—	R 2,191.0	R 2,191.3	—	R 2,191.3
2020	—	R 0.3	2.1	R 269.5	0.3	R 32.6	31.1	1,277.5	—	R 1,612.9	R 1,613.2	—	R 1,613.2
2021	—	0.2	2.9	R 370.5	0.2	R 53.8	37.1	1,894.3	—	R 2,358.8	R 2,359.0	—	R 2,359.0
2022	—	0.2	3.8	R 614.9	0.1	R 116.9	R 47.6	2,572.5	—	R 3,355.7	R 3,356.0	—	R 3,356.0
2023	—	0.1	3.2	518.2	0.1	135.2	37.8	2,295.3	—	2,989.9	2,990.0	—	2,990.0

[a] Transportation use of natural gas as vehicle fuel only.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET7. Electric power sector price and expenditure estimates, selected years, 1970-2023, New Hampshire

Year	Coal	Natural gas [a]	Petroleum: Distillate fuel oil	Petroleum: Petroleum coke	Petroleum: Residual fuel oil	Petroleum: Total	Nuclear fuel	Biomass: Wood and waste [b]	Electricity imports [c]	Total energy [d]
	Prices in dollars per million Btu									
1970	0.36	—	0.40	—	0.34	0.35	—	—	—	0.36
1975	1.21	1.01	2.26	—	1.84	1.84	—	—	—	1.43
1980	1.60	—	6.17	—	3.80	3.81	—	—	—	2.68
1985	2.01	—	5.79	—	3.62	3.64	—	—	9.34	2.83
1990	1.78	—	5.69	—	2.25	2.28	1.03	0.46	8.37	1.44
1995	1.59	1.83	3.73	—	2.31	2.35	0.54	0.70	6.21	1.10
2000	1.48	3.15	7.42	—	3.24	3.38	0.41	0.67	16.78	1.56
2005	2.44	8.88	12.40	—	5.56	5.95	0.41	2.28	16.53	3.27
2006	2.56	7.32	14.22	—	7.60	9.97	0.42	3.15	17.32	2.87
2007	2.90	7.50	15.76	—	8.53	9.44	0.46	3.73	18.25	2.87
2008	3.53	11.81	21.43	—	9.67	10.83	0.48	3.67	18.28	4.40
2009	3.66	5.57	13.32	—	6.02	6.54	0.55	3.69	12.10	2.74
2010	3.80	5.66	16.44	—	13.27	13.95	0.64	3.79	13.31	2.57
2011	3.55	6.01	22.15	—	19.74	19.97	0.67	3.68	11.53	3.03
2012	4.07	5.54	23.21	—	22.39	22.53	0.73	3.30	—	2.78
2013	4.21	8.85	23.12	—	16.57	18.43	0.77	3.57	11.49	2.88
2014	4.27	6.05	21.78	—	15.00	18.59	0.72	3.90	13.31	2.69
2015	3.87	4.92	13.55	—	10.00	10.96	0.72	4.07	10.54	2.52
2016	4.07	4.07	10.52	—	8.57	8.99	0.71	3.98	8.74	1.96
2017	4.34	4.26	13.71	—	11.24	12.86	0.71	3.91	9.18	1.95
2018	3.87	5.95	15.26	—	11.15	12.39	0.68	2.22	10.74	1.95
2019	3.35	7.51	17.80	—	10.70	13.17	0.65	2.33	—	2.03
2020	3.11	3.17	16.32	—	7.89	14.62	0.62	1.80	—	1.25
2021	3.99	4.38	16.48	—	11.88	14.93	0.73	2.39	—	1.78
2022	4.55	8.82	21.71	—	20.54	21.33	0.59	2.69	—	2.93
2023	5.40	5.70	21.04	—	17.00	18.72	0.59	2.93	—	2.02
	Expenditures in million dollars									
1970	9.7	—	0.4	—	5.5	5.9	—	—	—	15.6
1975	31.3	0.2	0.3	—	26.4	26.7	—	—	—	58.2
1980	46.3	—	0.7	—	104.0	104.6	—	—	—	150.9
1985	77.4	—	1.1	—	53.0	54.1	—	—	28.5	160.0
1990	54.4	—	1.3	—	56.3	57.6	44.6	7.1	1.0	164.8
1995	56.2	4.2	1.1	—	25.7	26.8	47.6	9.6	27.0	171.4
2000	65.2	2.6	1.3	—	15.3	16.6	34.3	9.8	111.5	240.1
2005	107.4	426.2	9.7	—	72.4	82.1	40.0	28.8	32.5	717.0
2006	114.3	315.6	21.1	—	20.2	41.4	41.3	39.8	34.5	586.9
2007	129.8	308.8	7.6	—	28.9	36.5	51.9	62.1	49.2	638.3
2008	141.9	603.4	3.2	—	13.0	16.2	46.4	65.0	58.5	931.4
2009	120.3	219.5	1.8	—	10.7	12.5	51.1	63.9	45.5	512.8
2010	128.5	229.0	2.5	—	7.4	10.0	72.5	66.3	31.7	538.0
2011	87.0	293.2	1.7	—	14.0	15.6	58.7	58.8	33.6	547.1
2012	57.8	288.2	1.2	—	5.1	6.3	62.3	59.5	—	474.1
2013	70.6	270.1	6.9	—	12.5	19.3	87.6	71.2	8.5	527.3
2014	63.5	194.9	29.5	—	18.1	47.6	77.1	89.2	11.4	483.6
2015	42.5	216.1	6.2	—	12.3	18.5	71.3	99.8	8.4	456.6
2016	21.5	141.6	0.7	—	2.0	2.7	79.9	96.8	6.1	348.5
2017	15.7	114.0	7.8	—	3.4	11.1	74.7	92.3	4.3	312.2
2018	30.2	132.2	7.9	—	13.3	21.2	71.4	44.5	7.4	306.9
2019	14.0	197.4	1.3	—	1.4	2.7	73.9	42.3	—	330.3
2020	4.7	85.1	3.4	—	0.4	3.8	63.9	21.8	—	179.4
2021	13.0	145.1	5.6	—	2.1	7.7	75.0	30.9	—	271.7
2022	17.6	291.2	54.5	—	25.0	79.6	67.1	31.8	—	487.2
2023	9.9	181.3	5.2	—	5.7	10.9	58.6	32.4	—	293.2

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[c] Electricity imported from Canada and Mexico.
[d] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET1. Primary energy, electricity, and total energy price and expenditure estimates, selected years, 1970-2023, New Jersey

Year	Primary energy														Electric power sector [i,k,l]	Electricity [m]	Total energy [h,i,j]
	Coal				Petroleum								Biomass				
	Coking coal	Steam coal	Total	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Nuclear fuel	Wood and waste [g,h]	Total [h,i,j,k]			
	Prices in dollars per million Btu																
1970	0.58	0.44	0.45	1.28	1.29	1.65	0.72	2.99	0.45	1.66	1.45	0.20	0.95	1.33	0.42	6.24	1.99
1975	—	1.58	1.58	2.29	2.73	3.71	2.03	4.79	2.08	3.27	3.33	0.18	1.14	3.01	1.71	13.61	4.35
1980	—	1.80	1.80	4.15	6.75	5.87	6.26	9.94	4.53	7.84	7.24	0.34	1.88	6.00	2.67	21.26	8.40
1985	—	1.91	1.91	6.18	7.85	13.00	5.76	8.95	4.35	8.91	7.51	0.71	2.05	6.18	1.91	28.18	9.62
1990	—	1.78	1.78	4.92	7.72	11.84	5.60	9.03	3.25	8.95	7.44	0.61	2.14	5.63	1.25	26.59	9.43
1995	—	1.78	1.78	4.47	6.72	11.03	3.85	9.27	2.87	7.95	6.85	0.63	1.23	5.22	1.45	30.59	9.25
2000	—	1.39	1.39	5.77	9.98	14.67	6.58	11.77	4.54	8.65	9.70	0.57	1.23	6.79	1.72	27.73	11.13
2005	—	2.18	2.18	10.04	16.35	21.82	12.86	17.48	4.85	14.29	15.07	0.42	2.48	10.71	2.85	31.93	16.31
2006	—	2.73	2.73	11.77	18.51	24.68	14.69	20.07	6.31	17.82	17.45	0.46	2.51	12.37	2.60	34.85	19.02
2007	—	2.89	2.89	11.34	19.84	27.54	15.60	21.31	5.02	17.62	18.16	0.46	2.71	12.82	2.91	38.18	19.67
2008	—	3.33	3.33	12.84	26.74	33.14	22.33	25.61	11.21	23.12	23.08	0.47	3.03	15.83	3.82	42.31	23.61
2009	—	4.01	4.01	10.11	17.18	29.42	12.47	18.26	7.95	23.22	16.54	0.56	3.62	11.32	2.24	42.63	19.11
2010	—	4.16	4.16	9.39	20.86	30.55	16.16	21.89	12.24	R 24.74	R 20.87	0.64	4.23	R 12.81	2.70	43.07	R 21.68
2011	—	4.18	4.18	8.70	26.23	37.71	22.59	27.81	16.80	R 29.75	R 26.70	0.68	4.68	R 15.27	2.50	41.95	R 24.35
2012	—	4.05	4.05	7.30	27.55	30.93	23.00	28.84	18.59	R 30.18	R 27.48	0.74	4.49	R 15.03	1.97	40.12	R 24.42
2013	—	3.87	3.87	7.86	26.90	33.02	22.01	28.02	17.89	R 29.14	R 26.79	0.80	4.86	R 14.88	2.24	40.21	R 23.86
2014	—	3.95	3.95	7.87	26.49	34.95	20.37	27.09	17.26	R 33.12	R 26.42	0.76	R 4.96	R 14.40	2.63	40.98	R 23.16
2015	—	3.82	3.82	5.97	18.94	21.49	11.95	19.63	9.28	R 24.71	R 18.51	0.72	2.94	R 10.40	1.82	40.35	R 18.98
2016	—	3.21	3.21	5.20	15.82	19.70	9.32	17.74	6.74	R 26.32	R 16.25	0.69	R 2.60	R 9.30	1.51	39.30	R 17.66
2017	—	3.17	3.17	6.28	18.42	25.01	11.90	20.26	9.53	21.06	18.63	0.73	2.48	10.56	1.68	39.14	19.19
2018	—	3.51	3.51	R 6.50	21.64	28.80	15.76	22.19	11.92	25.44	20.93	0.71	R 2.54	11.73	1.90	38.86	20.12
2019	—	3.07	3.07	6.47	20.90	21.43	14.55	20.93	11.22	R 24.02	20.07	0.66	R 2.68	11.51	1.82	39.43	19.91
2020	—	2.82	2.82	6.35	17.75	18.72	10.09	18.08	8.18	R 22.02	17.03	0.63	R 2.70	R 9.73	1.21	40.07	R 18.70
2021	—	3.17	3.17	7.64	R 21.62	34.25	14.65	24.16	12.36	R 25.35	22.55	0.69	R 3.33	R 12.76	2.02	41.16	R 21.79
2022	—	5.21	5.21	R 10.28	R 34.09	26.77	27.19	31.68	21.43	R 33.52	R 31.17	0.61	R 4.53	17.40	R 3.63	43.48	R 27.11
2023	—	—	—	8.00	29.19	23.48	21.51	28.19	17.63	27.89	27.00	0.61	4.10	15.03	1.30	44.87	25.20
	Expenditures in million dollars																
1970	5.3	50.2	55.5	413.8	468.7	40.3	26.9	1,040.8	215.4	159.3	1,951.4	7.6	5.8	2,434.2	-182.1	799.5	3,051.6
1975	—	95.5	95.5	556.5	947.8	95.0	71.4	1,951.3	575.0	290.1	3,930.5	6.1	7.9	4,596.4	-451.6	1,966.1	6,111.0
1980	—	123.7	123.7	1,434.3	2,072.7	134.0	308.7	3,797.7	1,419.1	698.5	8,430.8	27.9	23.6	10,040.3	-881.5	3,538.5	12,697.3
1985	—	196.9	196.9	2,371.8	1,997.7	319.5	1,430.6	3,547.0	644.1	682.4	8,621.4	133.4	25.3	11,348.9	-727.8	5,148.1	15,769.2
1990	—	144.1	144.1	2,225.1	1,752.9	170.9	1,470.6	3,715.4	299.7	544.3	7,953.8	154.3	33.6	10,510.9	-522.9	5,680.2	15,668.2
1995	—	141.9	141.9	3,169.2	1,330.7	158.8	1,093.3	3,969.4	216.2	592.8	7,361.3	111.3	40.0	10,823.7	-652.2	6,932.4	17,103.9
2000	—	159.9	159.9	3,563.6	2,150.1	349.9	1,371.8	5,800.9	395.1	825.4	10,893.2	169.1	37.8	14,823.6	-1,009.6	6,595.1	20,409.1
2005	—	273.3	273.3	6,186.2	3,783.0	192.3	2,321.1	9,362.1	568.7	940.5	17,167.6	138.5	36.6	23,802.2	-1,718.4	8,862.1	30,945.9
2006	—	316.8	316.8	6,587.3	3,936.1	180.4	2,808.9	10,780.2	665.5	1,020.7	19,391.8	156.1	38.4	26,490.4	-1,575.6	9,422.9	34,337.7
2007	—	322.9	322.9	7,195.2	4,548.8	280.7	3,231.5	11,623.4	621.2	1,198.2	21,503.8	155.7	36.7	29,214.3	-1,821.0	10,614.0	38,007.3
2008	—	325.0	325.0	8,079.3	5,516.1	306.4	4,466.2	13,558.9	1,920.4	1,160.5	26,928.5	159.5	48.0	35,540.3	-2,386.1	11,556.9	44,711.1
2009	—	239.0	239.0	6,387.5	R 2,925.0	246.9	2,434.5	9,379.5	554.2	1,029.9	R 16,569.9	201.4	76.7	R 23,474.6	-1,343.1	10,961.9	R 33,093.4
2010	—	299.3	299.3	6,224.4	R 3,606.1	841.8	1,697.2	11,089.3	620.0	R 931.5	R 18,785.8	220.4	90.5	R 25,626.5	-1,701.3	11,589.0	R 35,514.2
2011	—	207.3	207.3	5,806.1	R 5,003.6	1,045.6	2,409.9	13,811.4	748.6	R 1,059.1	R 24,078.2	240.2	104.1	R 30,445.6	-1,546.0	10,953.9	R 39,853.5
2012	—	103.7	103.7	4,823.0	R 4,506.9	717.0	2,400.3	13,994.9	786.4	R 978.7	R 23,384.3	257.9	99.6	R 28,668.5	-1,218.9	10,239.7	R 37,689.3
2013	—	100.3	100.3	R 5,343.5	R 4,458.4	788.5	2,427.5	13,633.3	640.6	R 1,029.6	R 22,977.9	277.9	117.1	R 28,830.8	-1,373.0	10,149.8	R 37,607.6
2014	—	121.3	121.3	R 6,053.6	R 4,776.5	861.3	2,131.5	13,257.9	202.5	R 909.8	R 22,139.5	250.3	R 126.1	R 28,701.4	-1,672.4	10,190.7	R 37,219.6
2015	—	87.6	87.6	R 4,454.7	R 3,254.3	509.4	1,302.4	9,693.7	217.3	R 916.6	R 15,893.8	249.1	R 53.8	R 20,747.3	-1,234.5	10,290.9	R 29,803.7
2016	—	56.0	56.0	R 3,959.5	R 2,783.2	460.8	1,056.2	8,965.3	168.8	R 696.4	R 14,130.7	215.5	R 48.0	R 18,413.9	-1,032.1	10,006.3	R 27,388.2
2017	—	52.3	52.3	R 4,425.0	R 2,924.2	576.5	1,425.5	9,764.8	194.6	788.0	R 15,673.5	261.2	R 43.4	R 20,455.5	-1,128.7	9,708.1	R 29,034.9
2018	—	58.7	58.7	R 4,995.9	R 3,683.1	683.2	R 1,917.5	10,460.2	575.1	R 929.0	R 18,248.0	236.0	R 44.9	R 23,584.4	-1,253.6	9,990.7	R 32,321.5
2019	—	42.4	42.4	R 4,873.8	R 3,507.5	506.6	R 1,793.1	9,807.1	53.4	R 898.0	R 16,565.7	183.9	R 41.1	R 21,706.8	-1,102.2	9,855.7	R 30,460.3
2020	—	34.2	34.2	R 4,079.1	R 2,690.6	437.7	R 564.6	6,730.3	295.2	R 745.1	R 11,463.6	176.3	R 47.1	R 15,800.3	-648.7	9,744.6	R 24,896.2
2021	—	39.8	39.8	R 5,059.3	R 3,413.4	815.6	R 1,174.5	10,006.3	319.7	R 876.6	R 16,606.2	203.1	R 57.7	R 21,966.2	-1,098.4	10,150.4	R 31,018.1
2022	—	32.3	32.3	R 7,391.4	R 5,410.1	626.3	R 2,690.8	13,131.7	567.9	R 1,120.2	R 23,547.0	179.2	R 80.5	R 31,230.4	R -2,059.8	10,920.8	R 40,091.4
2023	—	—	—	5,471.9	4,488.0	526.3	2,342.2	12,175.9	388.0	989.4	20,909.6	181.2	70.8	26,633.5	-724.8	10,761.9	36,670.7

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[l] Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
[m] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.
Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET2. Total end-use energy price and expenditure estimates, selected years, 1970-2023, New Jersey

	Primary energy												
			Petroleum							Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g,h]	Total [h,i,j]	Electricity [k]	Total energy [h,i,j]
Year	Prices in dollars per million Btu												
1970	0.46	1.43	1.30	1.65	0.72	2.99	0.46	1.66	1.67	0.95	1.60	6.24	1.99
1975	1.40	2.34	2.75	3.71	2.01	4.79	2.04	3.27	3.52	1.14	3.28	13.61	4.35
1980	1.71	4.51	6.78	5.87	6.27	9.94	4.44	7.84	7.45	1.88	6.81	21.26	8.40
1985	1.80	6.62	7.87	13.00	5.76	8.95	4.33	8.91	7.60	2.05	7.29	28.18	9.62
1990	1.61	5.42	7.76	11.84	5.60	9.03	3.18	8.95	7.52	2.77	6.89	26.59	9.43
1995	1.75	5.13	6.83	11.03	3.85	9.27	2.88	7.95	6.90	2.26	6.27	30.59	9.25
2000	1.49	6.20	10.10	14.67	6.58	11.77	4.53	8.65	9.74	3.23	8.65	27.73	11.13
2005	2.16	10.17	16.47	21.82	12.86	17.48	4.86	14.29	15.14	3.98	13.64	31.93	16.31
2006	2.61	13.04	18.52	24.68	14.69	20.07	6.31	17.82	17.47	4.05	16.23	34.85	19.02
2007	2.86	12.53	19.86	27.54	15.60	21.31	5.02	17.62	18.18	4.79	16.56	38.18	19.67
2008	—	13.77	26.78	33.14	22.33	25.61	11.21	23.12	23.09	5.90	20.46	42.31	23.61
2009	—	11.92	17.19	29.42	12.47	18.26	7.96	23.22	16.55	5.04	15.01	42.63	19.11
2010	—	11.11	20.89	30.55	16.16	21.89	12.23	R 24.74	R 20.87	5.80	R 17.47	43.07	R 21.68
2011	—	10.29	26.24	37.71	22.59	27.81	16.78	R 29.75	R 26.70	6.67	R 21.01	41.95	R 24.35
2012	—	9.36	27.56	30.93	23.00	28.84	18.58	R 30.18	R 27.48	7.31	R 21.31	40.12	R 24.42
2013	—	9.68	26.90	33.02	22.01	28.02	17.88	R 29.14	R 26.79	7.55	R 20.74	40.21	R 23.86
2014	—	9.49	26.51	34.95	20.37	27.09	17.24	R 33.12	R 26.42	7.46	R 19.89	40.98	R 23.16
2015	—	7.99	18.96	21.49	11.95	19.63	9.28	R 24.71	R 18.51	R 3.65	R 14.84	40.35	R 18.98
2016	—	R 7.67	15.83	19.70	9.32	17.74	6.74	R 26.32	R 16.26	R 2.76	R 13.41	39.30	R 17.66
2017	—	8.69	18.43	25.01	11.90	20.26	9.53	21.06	18.63	R 2.69	15.27	39.14	19.19
2018	—	R 8.63	21.69	28.80	15.76	22.19	11.92	25.44	20.94	R 3.32	16.55	38.86	20.12
2019	—	8.94	20.92	21.43	14.55	20.93	11.22	R 24.02	20.07	R 3.49	16.09	39.43	19.91
2020	—	8.97	17.76	18.72	10.09	18.08	8.18	R 22.02	17.03	R 3.87	R 13.92	40.07	R 18.70
2021	—	9.77	R 21.63	34.25	14.65	24.16	12.36	R 25.35	22.55	R 4.48	R 17.73	41.16	R 21.79
2022	—	12.12	R 34.14	26.77	27.19	31.68	21.43	R 33.52	R 31.18	R 5.23	R 23.76	43.48	R 27.11
2023	—	11.54	29.21	23.48	21.51	28.19	17.63	27.89	27.00	4.58	21.32	44.87	25.20
	Expenditures in million dollars												
1970	10.1	395.4	465.5	40.3	26.9	1,040.8	107.9	159.3	1,840.8	5.8	2,252.2	799.5	3,051.6
1975	4.7	548.1	926.4	95.0	64.9	1,951.3	256.6	290.1	3,584.2	7.9	4,144.8	1,966.1	6,111.0
1980	3.5	1,186.7	2,000.1	134.0	284.6	3,797.7	1,030.1	698.5	7,945.0	23.6	9,158.8	3,538.5	12,697.3
1985	20.1	2,117.3	1,973.4	319.5	1,430.6	3,547.0	505.5	682.4	8,458.3	25.3	10,621.1	5,148.1	15,769.2
1990	11.7	2,076.2	1,731.1	170.9	1,470.6	3,715.4	236.2	544.3	7,868.5	31.6	9,988.0	5,680.2	15,668.2
1995	0.8	2,836.9	1,302.2	158.8	1,093.3	3,969.4	192.3	592.8	7,308.8	24.9	10,171.5	6,932.4	17,103.9
2000	0.5	2,962.7	2,108.0	349.9	1,371.8	5,800.9	373.0	825.4	10,829.0	21.8	13,814.0	6,595.1	20,409.1
2005	0.5	4,950.2	3,767.9	192.3	2,321.1	9,362.1	542.6	940.5	17,126.4	6.7	22,083.8	8,862.1	30,945.9
2006	0.4	5,534.1	3,925.4	180.4	2,808.9	10,780.2	657.7	1,020.7	19,373.3	7.0	24,914.8	9,422.9	34,337.7
2007	0.2	5,909.4	4,527.4	280.7	3,231.5	11,623.4	614.4	1,198.2	21,475.7	8.0	27,393.3	10,614.0	38,007.3
2008	—	6,248.3	5,490.3	306.4	4,466.2	13,558.9	1,913.2	1,160.5	26,895.4	10.5	33,154.2	11,556.9	44,711.1
2009	—	5,516.2	R 2,920.9	246.9	2,434.5	9,379.5	550.5	1,029.9	R 16,562.0	53.2	R 22,131.5	10,961.9	R 33,093.4
2010	—	5,097.7	R 3,585.7	841.8	1,697.2	11,089.3	615.1	R 931.5	R 18,760.6	66.9	R 23,925.2	11,589.0	R 35,514.2
2011	—	4,760.2	R 4,991.8	1,045.6	2,409.9	13,811.4	743.0	R 1,059.1	R 24,060.8	78.6	R 28,899.6	10,953.9	R 39,853.5
2012	—	4,001.0	R 4,501.0	717.0	2,400.3	13,994.9	784.3	R 978.7	R 23,376.2	72.4	R 27,449.6	10,239.7	R 37,689.3
2013	—	R 4,401.6	R 4,449.1	788.5	2,427.5	13,633.3	638.7	R 1,029.6	R 22,966.7	89.5	R 27,457.8	10,149.8	R 37,607.6
2014	—	R 4,840.2	R 4,738.9	861.3	2,131.5	13,257.9	200.1	R 909.8	R 22,099.4	R 89.3	R 27,028.9	10,190.7	R 37,219.6
2015	—	R 3,610.0	R 3,244.0	509.4	1,302.4	9,693.7	216.0	R 916.6	R 15,882.2	R 20.6	R 19,512.8	10,290.9	R 29,803.7
2016	—	R 3,240.2	R 2,779.6	460.8	1,056.2	8,965.3	168.7	R 696.4	R 14,126.9	R 14.8	R 17,381.8	10,006.3	R 27,388.2
2017	—	R 3,644.9	R 2,919.7	576.5	1,425.5	9,764.8	194.6	788.0	R 15,669.1	R 12.9	R 19,326.9	9,708.1	R 29,034.9
2018	—	R 4,088.6	R 3,659.9	683.2	R 1,917.5	10,460.2	575.1	R 929.0	R 18,224.8	R 17.3	R 22,330.8	9,990.7	R 32,321.5
2019	—	R 4,028.8	R 3,501.4	506.6	R 1,793.1	9,807.1	53.4	R 898.0	R 16,559.7	R 16.1	R 20,604.6	9,855.7	R 30,460.3
2020	—	R 3,660.7	R 2,688.7	437.7	R 564.6	6,730.3	295.2	R 745.1	R 11,461.7	R 29.2	R 15,151.6	9,744.6	R 24,896.2
2021	—	R 4,230.0	R 3,410.0	815.6	R 1,174.5	10,006.3	319.7	R 876.6	R 16,602.8	R 34.9	R 20,867.8	10,150.4	R 31,018.1
2022	—	R 5,577.7	R 5,388.7	626.3	R 2,690.8	13,131.7	567.9	R 1,120.2	R 23,525.6	R 67.3	R 29,170.6	10,920.8	R 40,091.4
2023	—	4,948.0	4,482.9	526.3	2,342.2	12,175.9	388.0	989.4	20,904.5	56.2	25,908.7	10,761.9	36,670.7

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. · Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2023, New Jersey

Year	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
	Prices in dollars per million Btu									
1970	1.13	1.84	1.43	2.95	1.72	1.46	0.40	1.61	7.83	2.27
1975	2.09	2.61	2.81	4.94	3.51	2.85	0.79	2.73	15.77	4.47
1980	3.17	4.90	7.06	9.83	9.27	7.13	2.02	5.90	24.08	8.79
1985	3.07	7.33	8.09	10.95	7.13	8.13	2.29	7.52	32.24	11.68
1990	3.14	6.44	8.39	14.08	5.11	8.53	2.83	6.96	30.36	11.77
1995	2.88	7.02	6.79	13.86	4.42	7.24	2.30	6.94	35.11	12.88
2000	2.21	7.03	10.74	18.17	8.07	11.42	3.50	7.96	30.11	12.78
2005	4.29	10.07	16.57	24.26	15.11	17.20	5.48	11.42	34.40	17.29
2006	5.01	14.39	19.01	27.75	18.02	19.76	6.31	15.34	37.64	21.59
2007	3.83	13.99	20.70	30.33	20.22	21.79	6.97	15.32	41.44	22.15
2008	—	14.72	25.40	35.85	26.67	26.61	8.59	16.92	45.91	24.48
2009	—	14.13	18.70	32.29	21.19	20.52	6.45	14.95	47.81	23.19
2010	—	12.51	23.14	34.25	24.10	24.84	7.61	14.09	48.56	23.66
2011	—	11.48	26.42	39.17	28.26	28.68	9.15	13.57	47.58	23.08
2012	—	10.79	30.04	37.13	30.36	31.05	10.19	13.26	46.26	23.08
2013	—	10.40	29.09	36.08	30.54	R 30.12	9.98	12.54	46.10	21.33
2014	—	9.27	28.39	39.49	30.71	30.10	9.73	R 11.64	46.24	19.96
2015	—	7.94	19.83	34.18	17.13	21.73	6.71	9.53	46.34	19.10
2016	—	7.95	17.05	33.94	13.66	R 19.98	5.73	9.04	46.08	19.58
2017	—	8.78	18.94	37.04	17.06	R 22.31	6.41	9.99	45.86	19.69
2018	—	8.74	20.81	38.88	24.61	R 23.80	7.09	10.28	45.16	19.30
2019	—	9.35	20.41	34.20	22.96	R 22.70	6.82	10.72	46.45	19.97
2020	—	9.53	17.12	30.08	14.91	R 19.22	5.64	R 10.36	46.98	R 20.61
2021	—	9.87	20.54	35.21	23.50	22.68	6.77	R 11.14	47.93	R 21.18
2022	—	12.05	31.17	36.39	39.32	31.85	R 10.47	R 14.01	49.05	R 23.37
2023	—	12.70	28.74	33.59	35.07	29.39	9.58	14.39	51.89	24.71
	Expenditures in million dollars									
1970	2.2	264.7	274.6	8.5	7.5	290.6	1.2	558.7	324.1	882.8
1975	1.1	348.4	501.0	16.4	8.6	525.9	2.5	877.9	780.0	1,657.9
1980	0.8	691.2	985.9	26.2	13.8	1,025.9	18.9	1,736.8	1,341.5	3,078.3
1985	1.7	1,130.9	951.4	34.5	36.7	1,022.6	19.9	2,175.1	1,889.6	4,064.7
1990	0.2	1,132.1	667.3	43.5	8.6	719.4	27.7	1,879.4	2,123.4	4,002.9
1995	0.1	1,412.7	475.6	73.7	5.9	555.2	20.3	1,988.3	2,692.1	4,680.4
2000	(s)	1,600.7	639.3	123.2	13.7	776.2	17.8	2,394.7	2,521.9	4,916.7
2005	(s)	2,419.3	848.7	118.4	15.8	982.9	4.7	3,406.8	3,517.7	6,924.6
2006	(s)	2,940.3	780.9	110.5	11.9	903.2	4.8	3,848.3	3,676.2	7,524.5
2007	(s)	3,302.2	901.2	171.5	8.3	1,081.0	5.9	4,389.0	4,206.8	8,595.8
2008	—	3,352.8	1,170.4	216.5	8.2	1,395.1	8.1	4,755.9	4,559.9	9,315.9
2009	—	3,286.3	717.3	191.3	4.3	912.9	42.9	4,242.0	4,540.7	8,782.7
2010	—	2,813.8	727.7	195.9	4.9	928.5	54.3	3,796.5	5,022.0	8,818.5
2011	—	2,516.6	700.4	224.3	4.1	928.9	63.3	3,508.7	4,772.5	8,281.2
2012	—	2,122.3	728.0	149.8	1.8	879.6	58.9	3,060.7	4,523.8	7,584.5
2013	—	2,463.3	R 741.8	158.9	1.9	R 902.6	75.2	R 3,441.1	4,489.7	R 7,930.8
2014	—	2,400.6	R 813.3	205.3	2.9	R 1,021.5	74.2	R 3,496.3	4,400.2	R 7,896.6
2015	—	1,972.7	R 562.9	148.4	1.0	R 712.3	13.1	R 2,698.0	4,607.3	R 7,305.3
2016	—	1,788.7	R 320.5	135.2	0.8	R 456.4	9.5	R 2,254.6	4,573.8	R 6,828.4
2017	—	2,025.5	R 355.6	159.4	0.5	R 515.5	9.3	R 2,550.3	4,344.1	R 6,894.4
2018	—	2,250.5	R 516.8	191.5	0.7	R 709.0	12.9	R 2,972.4	4,550.4	R 7,522.9
2019	—	2,326.0	R 492.6	164.4	0.7	R 657.8	11.1	R 2,994.9	4,535.0	R 7,529.9
2020	—	2,215.8	R 340.5	116.3	0.4	R 457.2	R 21.8	R 2,694.8	4,756.8	R 7,451.6
2021	—	2,382.6	R 493.2	144.2	0.9	R 638.2	R 27.1	R 3,047.9	4,921.1	R 7,969.0
2022	—	2,987.8	R 765.4	131.9	1.3	R 898.6	R 52.7	R 3,939.1	5,031.6	R 8,970.7
2023	—	2,851.5	664.2	117.1	2.0	783.4	41.0	3,675.8	5,030.5	8,706.3

[a] Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2023, New Jersey

Year	Primary energy										Electricity [j]	Total energy [g,h,i]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f,g]	Total [g,h,i]		
	Prices in dollars per million Btu											
1970	0.23	1.38	1.14	1.41	0.79	2.99	0.45	0.83	0.40	0.99	7.62	2.01
1975	1.27	2.26	2.48	3.27	2.50	4.79	2.04	2.39	0.79	2.34	14.97	5.18
1980	1.49	4.45	6.47	4.93	5.81	9.94	4.66	5.50	2.02	5.13	22.49	9.19
1985	1.74	6.49	6.50	11.93	7.13	8.95	4.56	6.11	2.29	6.26	29.02	13.64
1990	1.60	5.07	6.10	10.19	5.11	9.03	3.47	5.95	2.82	5.36	26.48	12.47
1995	1.69	5.57	4.41	10.21	4.42	9.27	2.92	4.41	2.28	5.32	30.28	14.45
2000	1.45	5.71	7.62	12.65	8.07	11.77	4.41	7.80	3.45	6.04	26.89	13.69
2005	2.10	10.57	13.76	17.83	15.11	17.48	7.96	13.76	5.45	10.97	31.09	19.03
2006	2.54	12.53	15.89	19.86	18.02	20.07	8.58	15.78	5.56	12.81	34.06	22.07
2007	2.76	11.69	18.10	21.76	20.22	21.31	9.75	17.95	6.69	12.42	38.07	23.01
2008	—	12.95	24.03	26.25	26.67	25.61	12.78	22.55	7.82	13.90	41.13	25.25
2009	—	9.91	14.62	21.19	21.19	18.26	9.26	14.51	2.81	10.19	40.57	22.17
2010	—	9.85	18.38	24.27	24.10	21.89	12.32	18.85	3.17	10.37	40.70	22.55
2011	—	9.27	24.68	27.67	28.26	27.81	17.81	24.74	3.26	10.37	39.47	21.42
2012	—	8.27	25.95	21.95	30.36	28.84	18.38	25.45	3.44	9.31	37.45	20.58
2013	—	9.12	24.87	21.62	30.54	28.02	18.95	24.49	3.48	10.09	37.44	20.97
2014	—	9.65	23.89	22.86	30.71	27.09	15.52	23.93	R 3.54	10.47	38.53	20.61
2015	—	8.11	14.74	13.78	17.13	19.63	7.35	16.97	R 1.87	9.05	37.48	20.46
2016	—	7.60	12.32	12.96	13.66	17.74	6.46	15.07	R 1.18	8.37	35.93	19.85
2017	—	8.78	14.71	16.94	17.06	20.26	—	17.75	R 1.00	9.68	35.99	20.73
2018	—	8.66	18.12	18.38	24.61	22.19	10.52	20.30	R 1.18	9.77	35.78	20.20
2019	—	8.70	16.14	14.65	22.96	20.93	—	18.52	R 1.55	9.74	35.86	20.46
2020	—	8.44	10.88	13.86	14.91	18.08	—	R 15.26	R 1.98	R 9.11	36.19	R 20.48
2021	—	9.75	16.91	21.23	23.50	24.16	11.78	20.75	R 2.09	R 11.01	37.19	R 21.56
2022	—	12.58	30.41	22.53	39.32	31.68	18.87	30.59	R 1.85	R 14.44	40.29	R 24.77
2023	—	10.71	23.49	18.24	35.07	28.19	17.04	25.70	1.88	12.21	41.04	23.89
	Expenditures in million dollars											
1970	0.4	79.3	74.0	1.3	1.3	9.6	32.5	118.7	(s)	198.4	280.7	479.2
1975	1.6	124.2	149.4	3.4	2.4	15.9	83.0	254.2	(s)	380.0	707.2	1,087.2
1980	1.5	278.0	345.2	4.2	1.3	15.5	321.1	687.3	0.5	967.2	1,295.2	2,262.4
1985	3.4	553.5	238.5	11.9	3.1	31.0	89.7	374.2	0.5	931.6	2,069.8	3,001.4
1990	0.4	600.5	292.1	9.9	5.2	35.8	31.9	374.8	3.0	978.8	2,457.8	3,436.6
1995	0.3	800.2	88.9	17.1	14.2	3.8	22.7	146.7	2.8	949.9	3,116.9	4,066.8
2000	0.2	938.6	148.1	27.1	54.4	4.5	13.3	247.4	3.0	1,189.1	3,071.1	4,260.2
2005	0.1	1,866.7	280.0	26.9	30.1	6.4	14.1	357.5	0.8	2,225.1	4,218.3	6,443.4
2006	0.1	1,979.5	192.9	25.0	14.3	7.2	11.7	251.1	0.8	2,231.5	4,582.7	6,814.2
2007	0.2	2,042.2	350.6	35.9	12.3	8.4	14.3	421.6	1.0	2,464.9	5,310.2	7,775.1
2008	—	2,255.5	340.0	39.4	8.7	9.7	38.1	435.9	1.3	2,692.7	5,693.7	8,386.4
2009	—	1,840.1	187.5	30.0	4.5	6.3	24.2	252.5	9.3	2,101.9	5,450.1	7,552.0
2010	—	1,834.8	206.3	43.6	1.4	7.6	10.9	269.9	11.1	2,115.7	5,571.2	7,686.9
2011	—	1,824.1	351.4	46.3	2.3	9.2	14.0	423.1	13.6	2,260.9	5,267.8	7,528.7
2012	—	1,484.4	283.1	29.9	0.4	9.5	5.0	327.9	11.9	1,824.2	4,898.8	6,723.1
2013	—	1,640.7	R 289.8	34.3	0.4	10.2	4.2	R 338.8	12.6	R 1,992.1	4,883.7	R 6,875.9
2014	—	2,038.2	R 301.2	33.5	0.5	20.3	0.7	R 356.1	R 13.4	R 2,407.7	5,015.6	R 7,423.4
2015	—	1,387.4	R 162.1	16.7	0.1	213.8	0.5	R 393.2	R 5.9	R 1,786.4	4,952.4	R 6,738.8
2016	—	1,214.1	R 115.4	17.0	0.5	195.4	0.7	R 329.0	R 3.7	R 1,546.7	4,740.3	R 6,287.0
2017	—	1,361.4	R 128.3	18.8	0.3	221.6	—	R 369.0	R 3.1	R 1,733.5	4,663.1	R 6,396.6
2018	—	1,507.8	R 151.5	24.6	0.9	244.2	0.2	R 421.4	R 3.5	R 1,932.8	4,737.0	R 6,669.8
2019	—	1,407.3	R 153.4	16.2	1.1	231.9	—	R 402.7	R 4.2	R 1,814.2	4,650.6	R 6,464.8
2020	—	1,213.9	R 72.2	22.8	0.5	202.1	—	R 297.6	R 6.6	R 1,518.1	4,360.7	R 5,878.8
2021	—	1,521.8	R 173.4	34.6	0.6	272.8	0.1	R 481.4	R 7.0	R 2,010.2	4,585.3	R 6,595.6
2022	—	2,012.0	R 314.9	32.9	0.9	392.8	0.1	R 741.6	R 13.6	R 2,767.3	5,138.3	R 7,905.6
2023	—	1,613.2	228.7	19.1	1.5	328.6	0.1	578.0	14.2	2,205.4	5,052.1	7,257.4

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[g] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[j] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: Expenditure totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2023, New Jersey

	Primary energy													
	Coal				Petroleum						Biomass			
	Coking coal	Steam coal	Total	Natural gas [a]	Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e,f]	Total [f,g,h]	Electricity [i]	Total energy [f,g,h]
Year	Prices in dollars per million Btu													
1970	0.58	0.23	0.40	0.68	0.76	1.48	2.99	0.48	1.53	0.97	1.45	0.88	3.89	1.25
1975	—	1.27	1.27	1.65	2.36	3.55	4.79	2.15	3.08	2.71	1.45	2.50	10.03	3.67
1980	—	1.49	1.49	3.63	5.48	5.37	9.94	4.69	7.47	5.90	1.43	5.38	16.96	7.14
1985	—	1.74	1.74	5.39	6.24	13.39	8.95	4.56	8.49	8.14	1.43	6.81	22.54	9.78
1990	—	1.60	1.60	3.86	5.92	11.35	9.03	3.47	8.17	7.20	1.65	5.51	21.58	8.73
1995	—	1.69	1.69	3.01	5.43	9.15	9.27	2.92	7.29	6.89	1.88	4.22	23.89	6.83
2000	—	1.45	1.45	4.94	7.61	13.36	11.77	4.41	7.90	8.57	1.23	6.97	25.14	9.99
2005	—	2.10	2.10	9.56	13.61	19.67	17.48	7.96	12.85	13.35	1.83	11.52	28.61	15.04
2006	—	2.54	2.54	9.92	15.77	21.98	20.07	8.58	15.90	16.12	1.68	13.23	30.52	16.92
2007	—	—	—	9.30	17.54	25.82	21.31	9.75	15.70	16.46	1.70	13.43	29.55	16.62
2008	—	—	—	12.35	24.45	31.03	25.61	12.78	20.54	21.56	1.72	17.36	36.76	21.78
2009	—	—	—	8.71	14.90	25.63	18.26	9.26	20.66	19.16	1.69	14.57	34.85	18.72
2010	—	—	—	9.39	18.01	30.08	21.89	12.32	R 20.33	R 22.91	1.69	R 17.24	34.61	R 20.56
2011	—	—	—	9.00	24.41	38.15	27.81	17.81	R 24.26	R 28.38	2.48	R 20.58	33.49	R 22.94
2012	—	—	—	7.66	25.44	30.24	28.84	18.38	R 24.67	R 26.53	2.46	R 18.07	30.82	R 20.38
2013	—	—	—	7.82	24.64	33.34	28.02	18.95	R 24.08	R 27.00	2.42	R 19.81	31.65	R 22.01
2014	—	—	—	10.00	23.27	34.69	27.09	15.52	R 27.08	R 28.65	2.94	R 20.90	33.37	R 23.22
2015	—	—	—	7.72	14.68	19.00	19.63	—	R 19.31	R 18.44	2.92	R 14.99	31.19	R 17.92
2016	—	—	—	6.31	11.49	17.09	17.74	—	R 19.20	R 16.74	2.80	R 12.67	29.78	R 15.88
2017	—	—	—	7.60	15.12	22.59	20.26	—	16.35	18.17	2.04	14.65	29.65	17.41
2018	—	—	—	7.72	16.25	26.79	22.19	—	20.52	21.76	2.22	16.23	29.51	18.55
2019	—	—	—	7.33	15.04	18.40	20.93	—	19.43	18.67	3.00	14.47	29.77	17.02
2020	—	—	—	7.24	10.74	16.72	18.08	—	R 17.18	R 16.27	2.26	R 13.25	29.33	R 16.10
2021	—	—	—	9.06	14.75	35.30	24.16	—	R 20.41	R 23.89	1.96	R 18.69	31.36	R 20.75
2022	—	—	—	11.02	27.34	25.22	31.68	—	R 27.42	R 27.25	R 2.12	R 20.06	35.52	R 22.32
2023	—	—	—	8.86	23.52	21.84	28.19	—	22.77	23.20	2.20	16.90	34.24	19.20
	Expenditures in million dollars													
1970	5.3	2.2	7.5	51.4	38.6	30.0	6.3	52.1	131.1	258.1	4.7	321.6	194.0	515.7
1975	—	2.0	2.0	75.5	109.5	73.9	5.9	125.3	250.1	564.6	5.3	647.4	477.3	1,124.7
1980	—	1.2	1.2	217.5	230.9	102.9	7.7	410.2	617.6	1,369.3	4.2	1,592.2	900.1	2,492.3
1985	—	15.1	15.1	433.0	101.2	267.9	21.7	126.5	561.8	1,079.2	4.9	1,532.1	1,181.8	2,713.9
1990	—	11.1	11.1	343.6	118.4	114.4	21.8	67.4	433.7	755.7	0.8	1,111.2	1,089.1	2,200.4
1995	—	0.5	0.5	623.7	61.2	65.3	29.0	24.8	474.8	655.1	1.9	1,281.1	1,112.3	2,393.4
2000	—	0.3	0.3	421.6	78.6	198.5	15.9	11.0	647.8	951.8	1.0	1,374.6	988.8	2,363.4
2005	—	0.3	0.3	661.4	150.5	41.1	95.6	14.5	750.5	1,052.1	1.3	1,715.0	1,103.2	2,818.2
2006	—	0.3	0.3	612.4	203.9	39.7	114.1	19.8	822.0	1,199.6	1.4	1,813.6	1,135.8	2,949.4
2007	—	—	—	563.0	200.3	66.1	128.8	26.2	980.4	1,401.8	1.2	1,965.9	1,064.3	3,030.3
2008	—	—	—	637.6	259.4	39.0	124.5	23.0	936.5	1,382.5	1.2	2,021.3	1,263.3	3,284.6
2009	—	—	—	388.7	168.4	20.4	84.6	12.9	836.8	1,123.1	1.0	1,512.8	931.2	2,443.9
2010	—	—	—	448.3	176.2	600.7	125.6	5.5	R 665.2	R 1,573.3	1.6	R 2,023.1	958.2	R 2,981.3
2011	—	—	—	418.3	295.0	773.2	156.2	34.0	R 746.2	R 2,004.7	1.7	R 2,424.7	880.5	R 3,305.2
2012	—	—	—	391.4	278.8	535.9	158.7	30.5	R 698.1	R 1,702.0	1.7	R 2,095.1	789.0	R 2,884.1
2013	—	—	—	294.8	233.2	593.6	156.2	13.2	R 748.2	R 1,744.4	1.7	R 2,040.9	744.5	R 2,785.3
2014	—	—	—	398.3	279.7	620.4	116.7	0.4	R 625.1	R 1,642.3	1.6	R 2,042.3	743.3	R 2,785.6
2015	—	—	—	246.2	179.7	342.6	123.3	—	R 630.6	R 1,276.2	1.6	R 1,524.0	700.0	R 2,224.1
2016	—	—	—	233.8	146.1	306.6	112.3	—	R 424.3	R 989.3	1.6	R 1,224.6	665.9	R 1,890.5
2017	—	—	—	253.1	146.9	397.1	130.4	—	550.9	1,225.2	0.4	1,478.8	673.9	2,152.7
2018	—	—	—	324.6	145.8	464.9	145.6	—	672.4	1,428.6	0.8	1,754.0	675.2	2,429.2
2019	—	—	—	291.0	149.4	323.3	138.2	—	R 660.0	R 1,270.9	0.8	R 1,562.7	643.7	R 2,206.4
2020	—	—	—	226.8	92.6	295.5	120.6	—	R 527.8	R 1,036.5	0.9	R 1,264.2	602.3	R 1,866.5
2021	—	—	—	318.6	156.9	632.8	161.5	—	R 642.2	R 1,593.4	0.9	R 1,912.9	620.9	R 2,533.8
2022	—	—	—	568.3	293.8	455.9	219.3	—	R 827.6	R 1,796.5	0.9	R 2,365.7	718.4	R 3,084.0
2023	—	—	—	464.8	246.7	386.1	196.7	—	750.0	1,579.5	0.9	2,045.2	633.5	2,678.7

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[i] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET6. Transportation sector energy price and expenditure estimates, selected years, 1970-2023, New Jersey

	Primary energy												
			Petroleum										
	Coal	Natural gas[a]	Aviation gasoline	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Lubricants	Motor gasoline [e]	Residual fuel oil	Total	Total [f]	Electricity [g]	Total energy [f]
Year	Prices in dollars per million Btu												
1970	0.23	—	2.17	1.57	1.41	0.72	5.08	2.99	0.41	2.39	2.39	4.62	2.39
1975	1.27	—	3.45	3.21	3.27	2.01	7.48	4.79	1.81	4.32	4.32	11.14	4.32
1980	—	—	9.02	7.34	4.93	6.27	14.36	9.94	3.94	8.60	8.60	14.91	8.60
1985	—	—	9.99	8.51	12.13	5.76	18.18	8.95	4.18	7.54	7.54	21.28	7.55
1990	—	—	9.32	8.64	10.63	5.60	20.61	9.03	2.99	7.58	7.58	24.47	7.58
1995	—	4.14	8.36	7.59	10.28	3.85	21.75	9.27	2.86	6.97	6.97	26.05	6.98
2000	—	6.77	10.87	10.39	14.26	6.58	23.20	11.77	4.54	9.83	9.83	27.01	9.84
2005	—	9.97	18.56	17.02	17.62	12.86	35.22	17.48	4.75	15.20	15.20	22.43	15.21
2006	—	7.56	22.31	18.85	19.81	14.69	43.88	20.07	6.23	17.49	17.49	28.44	17.50
2007	—	11.72	23.70	20.01	21.91	15.60	47.16	21.31	4.86	18.16	18.15	32.64	18.17
2008	—	12.99	27.23	27.72	25.64	22.33	55.12	25.61	11.17	23.02	23.02	38.77	23.03
2009	—	8.27	20.32	17.19	20.17	12.47	56.07	18.26	7.88	16.22	16.22	36.64	16.24
2010	—	5.89	25.19	20.76	24.01	16.16	58.80	21.89	12.23	20.54	20.54	34.38	20.56
2011	—	6.44	31.64	26.53	27.27	22.59	69.54	27.81	16.71	26.51	26.50	31.35	26.51
2012	—	14.09	33.04	27.39	21.68	23.00	72.11	28.84	18.59	27.46	27.45	28.65	27.46
2013	—	R 13.81	32.71	26.81	21.35	22.01	69.42	28.02	17.85	26.68	26.68	31.07	26.69
2014	—	R 13.66	33.16	26.66	22.57	20.37	69.44	27.09	17.25	26.13	26.12	30.56	26.13
2015	—	R 13.10	24.86	19.57	13.70	11.95	67.28	19.63	9.28	18.42	18.42	30.05	18.44
2016	—	R 10.30	21.62	16.31	13.28	9.32	65.78	17.74	6.74	16.14	16.14	25.45	16.15
2017	—	R 11.75	24.13	18.89	19.29	11.90	67.25	20.26	9.53	18.58	18.58	25.83	18.59
2018	—	R 12.94	27.04	22.49	20.76	15.76	72.37	22.19	11.92	20.77	20.77	26.57	20.78
2019	—	R 12.49	25.57	21.86	17.41	14.55	74.92	20.93	11.22	20.15	20.14	25.78	20.15
2020	—	R 14.19	22.34	18.78	16.60	10.09	75.34	18.08	8.18	17.09	17.08	26.92	17.10
2021	—	R 14.92	28.86	22.94	24.42	14.65	81.25	24.16	12.36	22.47	22.46	27.09	22.47
2022	—	R 14.98	36.02	35.78	24.25	27.19	97.37	31.68	21.43	R 31.58	R 31.56	37.81	R 31.57
2023	—	16.79	32.62	30.36	19.70	21.51	105.48	28.19	17.63	27.34	27.32	35.83	27.34
	Expenditures in million dollars												
1970	(s)	—	1.7	78.3	0.6	26.9	17.7	1,024.9	23.3	1,173.4	1,173.4	0.6	1,174.0
1975	(s)	—	1.6	166.5	1.2	64.9	27.5	1,929.5	48.3	2,239.5	2,239.5	1.6	2,241.2
1980	—	—	3.8	438.1	0.8	284.6	62.1	3,774.5	298.7	4,862.5	4,862.5	1.7	4,864.2
1985	—	—	9.3	682.2	5.2	1,430.6	71.5	3,494.3	289.3	5,982.3	5,982.3	6.9	5,989.2
1990	—	—	5.6	653.3	3.0	1,470.6	91.2	3,657.8	136.9	6,018.5	6,018.5	9.8	6,028.3
1995	—	0.4	6.1	676.4	2.7	1,093.3	91.8	3,936.6	144.9	5,951.8	5,952.2	11.1	5,963.3
2000	—	1.8	4.9	1,242.0	1.2	1,371.8	104.6	5,780.5	348.7	8,853.7	8,855.5	13.3	8,868.8
2005	—	2.9	10.2	2,488.8	5.9	2,321.1	134.0	9,260.0	514.0	14,734.0	14,736.8	22.9	14,759.7
2006	—	1.9	9.9	2,747.6	5.3	2,808.9	162.6	10,658.8	626.2	17,019.4	17,021.4	28.3	17,049.6
2007	—	2.1	16.6	3,075.3	7.2	3,231.5	180.5	11,486.2	574.0	18,571.3	18,573.4	32.7	18,606.1
2008	—	2.4	11.2	3,720.4	11.6	4,466.2	195.9	13,424.6	1,852.1	23,682.0	23,684.4	39.9	23,724.3
2009	—	1.2	5.2	R 1,847.7	5.1	2,434.5	179.2	9,288.6	513.4	R 14,273.6	R 14,274.8	40.0	R 14,314.8
2010	—	0.9	10.4	R 2,475.4	1.6	1,697.2	249.5	10,956.1	598.7	R 15,988.9	R 15,989.8	37.7	R 16,027.5
2011	—	1.3	12.3	R 3,644.9	1.8	2,409.9	294.3	13,645.9	695.0	R 20,704.1	R 20,705.4	33.1	R 20,738.5
2012	—	2.8	11.6	R 3,211.2	1.5	2,400.3	266.7	13,826.7	748.8	R 20,466.9	R 20,469.6	28.1	R 20,497.7
2013	—	R 2.8	9.9	R 3,184.4	1.7	2,427.5	269.2	13,466.8	621.4	R 19,980.9	R 19,983.7	31.9	R 20,015.6
2014	—	R 3.1	14.1	R 3,344.7	2.2	2,131.5	267.1	13,120.9	199.0	R 19,079.5	R 19,082.6	31.6	R 19,114.1
2015	—	R 3.7	5.5	R 2,339.3	1.7	1,302.4	279.4	9,356.6	215.6	R 13,500.6	R 13,504.3	31.2	R 13,535.5
2016	—	R 3.6	4.9	R 2,197.6	2.0	1,056.2	266.0	8,657.6	168.0	R 12,352.3	R 12,355.9	26.3	R 12,382.2
2017	—	R 4.9	5.6	R 2,288.9	1.1	1,425.5	230.8	9,412.8	194.6	R 13,559.3	R 13,564.2	27.0	R 13,591.2
2018	—	R 5.7	6.9	R 2,845.8	2.2	R 1,917.5	248.1	10,070.3	574.9	R 15,665.9	R 15,671.5	28.1	R 15,699.6
2019	—	R 4.5	7.3	2,706.0	2.7	R 1,793.1	R 228.8	9,437.0	53.4	R 14,228.3	R 14,232.7	26.5	R 14,259.2
2020	—	R 4.1	5.7	R 2,183.5	3.1	R 564.6	R 210.7	6,407.6	295.2	R 9,670.4	R 9,674.5	24.8	R 9,699.3
2021	—	R 7.0	8.6	R 2,586.6	4.0	R 1,174.5	R 224.4	9,572.0	319.7	R 13,889.7	R 13,896.7	23.1	R 13,919.7
2022	—	R 9.7	11.1	R 4,014.7	5.6	R 2,690.8	R 279.3	12,519.7	567.8	R 20,088.9	R 20,098.5	32.6	R 20,131.1
2023	—	18.6	9.5	3,343.2	4.0	2,342.2	226.4	11,650.6	387.9	17,963.7	17,982.3	45.9	18,028.2

[a] Transportation use of natural gas as vehicle fuel only.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET7. Electric power sector price and expenditure estimates, selected years, 1970-2023, New Jersey

Year	Coal	Natural gas [a]	Petroleum: Distillate fuel oil	Petroleum: Petroleum coke	Petroleum: Residual fuel oil	Petroleum: Total	Nuclear fuel	Biomass: Wood and waste [b]	Electricity imports [c]	Total energy [d]
	Prices in dollars per million Btu									
1970	0.45	0.39	0.45	—	0.45	0.45	0.20	—	—	0.42
1975	1.59	0.95	2.14	—	2.12	2.12	0.18	—	—	1.71
1980	1.80	3.01	5.93	—	4.79	4.98	0.34	—	—	2.67
1985	1.92	3.97	6.24	—	4.41	4.62	0.71	—	—	1.91
1990	1.80	2.17	5.45	—	3.56	3.91	0.61	0.46	—	1.25
1995	1.78	2.12	3.84	—	2.84	3.31	0.63	0.70	—	1.45
2000	1.39	4.30	6.38	—	4.77	5.71	0.57	0.67	—	1.72
2005	2.18	9.55	6.05	—	4.75	5.16	0.42	2.28	—	2.85
2006	2.73	7.79	14.58	—	6.09	9.18	0.46	2.32	—	2.60
2007	2.89	7.90	16.31	—	4.68	10.21	0.46	2.42	—	2.91
2008	3.33	10.45	20.38	—	11.58	17.48	0.47	2.66	—	3.82
2009	4.01	5.16	12.18	—	7.78	9.62	0.56	2.20	—	2.24
2010	4.16	5.52	17.02	—	13.53	16.22	0.64	2.40	13.31	2.70
2011	4.18	5.11	22.44	—	20.13	21.65	0.68	2.44	11.53	2.50
2012	4.05	3.52	23.56	—	22.82	23.36	0.74	2.21	—	1.97
2013	3.87	4.19	24.43	—	21.32	23.84	0.80	2.26	11.49	2.24
2014	3.95	4.69	23.67	—	19.59	23.37	0.76	2.73	13.31	2.63
2015	3.82	2.86	14.70	—	10.18	14.01	0.72	2.62	10.54	1.82
2016	3.21	2.12	10.23	—	8.72	10.15	0.69	2.54	8.74	1.51
2017	3.17	2.73	13.96	—	—	13.96	0.73	2.40	9.18	1.68
2018	3.51	3.07	15.58	—	—	15.58	0.71	2.22	10.74	1.90
2019	3.07	2.79	14.06	—	—	14.06	0.66	2.33	—	1.82
2020	2.82	1.79	9.49	—	—	9.49	0.63	1.80	—	1.21
2021	3.17	3.62	15.06	—	—	15.06	0.69	2.39	—	2.02
2022	5.21	R 7.00	25.10	—	—	25.10	0.61	2.69	—	R 3.63
2023	—	2.05	19.74	—	—	19.74	0.61	2.93	—	1.30
	Expenditures in million dollars									
1970	45.4	18.4	3.2	—	107.5	110.6	7.6	—	—	182.1
1975	90.8	8.4	27.9	—	318.4	346.2	6.1	—	—	451.6
1980	120.2	247.6	96.7	—	389.1	485.8	27.9	—	—	881.5
1985	176.8	254.5	24.4	—	138.7	163.1	133.4	—	—	727.8
1990	132.4	148.9	21.8	—	63.5	85.3	154.3	2.0	—	522.9
1995	141.1	332.3	28.6	—	23.9	52.5	111.3	15.1	—	652.2
2000	159.4	600.9	42.1	—	22.1	64.2	169.1	16.1	—	1,009.6
2005	272.8	1,236.0	15.1	—	26.1	41.2	138.5	29.9	—	1,718.4
2006	316.4	1,053.2	10.7	—	7.8	18.5	156.1	31.4	—	1,575.6
2007	322.7	1,285.8	21.4	—	6.8	28.1	155.7	28.7	—	1,821.0
2008	325.0	1,831.0	25.8	—	7.2	33.1	159.5	37.4	—	2,386.1
2009	239.0	871.3	4.2	—	3.7	7.9	201.4	23.5	—	1,343.1
2010	299.3	1,126.7	20.4	—	4.9	25.3	220.4	23.6	6.1	1,701.3
2011	207.3	1,045.9	11.9	—	5.5	17.4	240.2	25.5	9.7	1,546.0
2012	103.7	822.1	5.9	—	2.1	8.0	257.9	27.2	—	1,218.9
2013	100.3	941.9	9.3	—	1.9	11.2	277.9	27.6	14.2	1,373.0
2014	121.3	1,213.4	37.6	—	2.5	40.1	250.3	36.8	10.6	1,672.4
2015	87.6	844.7	10.2	—	1.3	11.5	249.1	33.2	8.4	1,234.5
2016	56.0	719.4	3.6	—	0.2	3.8	215.5	33.3	4.3	1,032.1
2017	52.3	780.1	4.5	—	—	4.5	261.2	30.6	(s)	1,128.7
2018	58.7	907.2	23.2	—	—	23.2	236.0	27.6	0.8	1,253.6
2019	42.4	845.0	6.0	—	—	6.0	183.9	25.0	—	1,102.2
2020	34.2	418.4	1.9	—	—	1.9	176.3	17.8	—	648.7
2021	39.8	829.3	3.4	—	—	3.4	203.1	22.8	—	1,098.4
2022	32.3	R 1,813.6	21.4	—	—	21.4	179.2	13.2	—	R 2,059.8
2023	—	523.8	5.1	—	—	5.1	181.2	14.7	—	724.8

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[c] Electricity imported from Canada and Mexico.
[d] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET1. Primary energy, electricity, and total energy price and expenditure estimates, selected years, 1970-2023, New Mexico

	Primary energy														Electric power sector [i,k,l]	Electricity [m]	Total energy [h,i,j]
	Coal				Petroleum								Biomass				
	Coking coal	Steam coal	Total	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Nuclear fuel	Wood and waste [g,h]	Total [h,i,j,k]			
Year	Prices in dollars per million Btu																
1970	—	0.14	0.14	0.39	1.07	1.34	0.76	2.94	0.34	1.25	1.93	—	1.04	0.85	0.20	5.62	1.46
1975	—	0.23	0.23	0.75	2.42	3.22	2.12	4.72	1.66	2.57	3.44	—	1.46	1.63	0.45	7.99	2.88
1980	—	0.56	0.56	2.66	6.80	5.98	6.59	9.58	3.80	6.40	7.87	—	2.46	3.71	1.02	15.52	7.11
1985	—	1.09	1.09	4.60	6.62	8.28	6.24	9.14	3.98	6.88	7.94	—	2.88	3.97	1.33	21.20	9.32
1990	—	1.32	1.32	3.84	7.65	8.62	6.01	9.23	2.75	6.06	8.31	—	4.15	4.21	1.37	20.98	9.36
1995	—	1.42	1.42	3.23	6.43	5.82	4.16	9.53	2.43	5.86	7.87	—	3.46	3.95	1.43	20.12	9.10
2000	—	1.38	1.38	4.90	9.99	11.83	6.83	12.06	3.66	6.66	10.60	—	5.49	5.21	1.72	19.40	10.98
2005	—	1.51	1.51	9.13	17.27	18.74	13.16	18.43	6.57	9.11	17.18	—	9.05	8.43	2.28	22.15	16.54
2006	—	1.56	1.56	8.93	19.41	20.60	15.02	20.93	8.01	10.07	19.37	—	10.02	9.40	2.32	21.75	18.35
2007	—	1.79	1.79	8.41	21.08	19.11	15.73	23.12	9.07	10.00	20.79	—	10.88	10.31	2.56	21.96	19.16
2008	—	2.00	2.00	9.51	27.27	27.07	22.56	26.27	12.99	12.50	25.57	—	13.17	11.92	3.23	24.65	22.56
2009	—	1.90	1.90	6.19	17.79	22.46	12.90	19.20	9.37	21.35	18.76	—	9.60	8.36	2.40	23.96	17.86
2010	—	2.06	2.06	6.54	21.51	23.92	16.61	22.67	11.38	R 25.04	R 22.16	—	11.59	R 10.11	2.69	24.88	R 20.06
2011	—	2.05	2.05	6.27	27.84	27.24	22.81	28.74	—	R 26.49	R 28.00	—	14.57	R 11.98	2.66	25.92	R 23.77
2012	—	2.18	2.18	5.15	28.53	23.09	22.84	29.22	—	R 27.64	R 28.43	—	15.40	R 12.31	2.48	26.21	R 24.15
2013	—	2.31	2.31	R 5.82	28.17	23.17	21.93	28.35	—	R 28.14	R 27.85	—	15.12	R 12.31	2.80	27.25	R 23.58
2014	—	3.77	3.77	R 6.48	26.99	26.14	20.17	27.03	—	R 29.28	R 26.86	—	15.17	R 13.53	4.10	28.45	R 23.65
2015	—	2.35	2.35	4.89	18.73	18.01	11.79	18.97	—	R 28.62	R 19.05	—	R 10.32	R 9.52	2.58	28.35	R 18.60
2016	—	1.90	1.90	4.47	15.76	18.49	9.53	17.02	—	R 25.21	R 16.67	—	R 9.08	R 8.49	2.23	26.87	R 16.78
2017	—	1.97	1.97	5.21	18.14	21.07	11.89	19.31	—	26.44	18.89	—	R 10.03	R 9.85	2.40	28.27	R 18.76
2018	—	2.49	2.49	R 4.02	21.76	22.19	15.50	21.30	—	27.75	21.61	—	R 11.19	11.56	2.48	27.57	19.89
2019	—	2.49	2.49	3.02	20.58	19.77	14.36	19.80	—	R 30.03	20.37	—	11.03	10.39	2.24	26.48	R 18.45
2020	—	2.55	2.55	R 3.26	16.86	17.81	9.29	16.19	—	R 27.74	16.89	—	R 8.65	8.92	2.16	27.49	R 16.90
2021	—	2.62	2.62	R 6.70	22.31	24.14	14.33	23.26	—	R 30.37	R 22.95	—	R 10.39	R 13.39	3.74	28.82	R 21.40
2022	—	2.94	2.94	R 8.51	34.41	25.54	25.98	30.27	—	R 38.63	R 32.15	—	R 16.50	R 17.92	4.39	29.48	R 27.76
2023	—	3.60	3.60	5.33	28.63	22.91	20.75	26.74	—	36.51	27.65	—	15.41	15.89	3.07	27.87	24.66
	Expenditures in million dollars																
1970	—	14.3	14.3	80.7	33.6	21.8	12.9	202.9	0.4	20.1	291.7	—	0.9	387.6	-32.0	106.6	462.2
1975	—	30.0	30.0	134.8	94.7	41.6	30.9	409.2	31.0	44.9	652.5	—	1.5	818.7	-95.4	179.5	902.9
1980	—	114.0	114.0	394.1	315.6	99.6	96.0	850.8	23.5	119.2	1,504.7	—	2.6	2,015.4	-268.0	460.2	2,207.5
1985	—	293.7	293.7	350.8	284.5	93.9	97.7	859.5	19.0	94.4	1,449.1	—	4.1	2,102.2	-392.6	836.0	2,545.6
1990	—	363.3	363.3	348.9	355.2	242.7	96.2	903.9	2.0	75.7	1,675.8	—	7.2	2,407.1	-414.3	962.7	2,955.4
1995	—	389.6	389.6	318.9	189.5	167.1	52.3	1,042.3	2.0	86.6	1,539.9	—	6.1	2,254.5	-439.1	1,084.9	2,900.3
2000	—	420.6	420.6	601.5	693.1	127.5	116.8	1,332.3	3.1	102.5	2,375.5	—	10.4	3,408.0	-601.6	1,218.7	4,025.1
2005	—	479.8	479.8	1,024.1	1,443.8	201.3	170.4	2,201.9	3.6	130.3	4,151.2	—	40.6	5,700.3	-816.6	1,519.6	6,403.3
2006	—	494.4	494.4	1,044.7	1,776.1	245.4	200.5	2,533.1	7.0	150.0	4,912.0	—	42.2	6,495.1	-859.0	1,545.4	7,181.5
2007	—	529.5	529.5	1,082.3	1,907.0	492.0	173.3	2,727.1	9.0	176.9	5,485.2	—	51.5	7,150.8	-913.9	1,618.7	7,855.5
2008	—	567.3	567.3	1,301.8	2,225.2	271.1	230.1	2,970.7	18.7	175.3	5,891.0	—	70.5	7,833.1	-1,143.9	1,796.5	8,485.7
2009	—	582.2	582.2	824.8	R 1,282.6	200.8	97.9	2,255.9	0.6	239.9	R 4,077.7	—	37.1	R 5,522.9	-905.4	1,710.1	R 6,327.7
2010	—	550.3	550.3	904.6	R 1,701.2	204.6	153.9	2,495.6	2.4	R 298.5	R 4,856.3	—	46.0	R 6,359.1	-912.1	1,833.5	R 7,280.5
2011	—	584.8	584.8	895.4	R 2,306.1	217.2	196.9	3,277.3	—	R 344.8	R 6,342.3	—	53.0	R 7,877.3	-958.8	1,964.3	R 8,882.8
2012	—	575.5	575.5	725.4	R 2,399.6	176.5	194.4	3,347.4	—	R 348.0	R 6,465.9	—	49.9	R 7,817.6	-843.5	1,997.5	R 8,971.6
2013	—	592.9	592.9	R 881.8	R 2,427.5	195.2	182.7	3,211.9	—	R 319.9	R 6,337.1	—	62.9	R 7,875.7	-932.3	2,106.6	R 9,050.0
2014	—	812.4	812.4	R 971.5	2,534.5	200.4	163.4	3,114.4	—	R 332.9	R 6,345.6	—	R 62.0	R 8,192.8	-1,207.1	2,205.2	R 9,191.0
2015	—	505.8	505.8	R 736.4	R 1,708.5	126.4	98.5	2,230.9	—	R 320.1	R 4,484.3	—	R 48.5	R 5,775.5	-765.8	2,201.2	R 7,210.9
2016	—	375.3	375.3	R 685.2	R 1,453.5	128.2	76.6	1,973.3	—	R 262.2	R 3,893.8	—	R 43.0	R 4,997.6	-627.8	2,081.7	R 6,451.5
2017	—	391.7	391.7	R 736.3	R 1,801.0	135.5	101.7	2,372.9	—	244.8	R 4,656.0	—	R 42.0	R 5,826.2	-665.3	2,186.6	R 7,347.5
2018	—	340.1	340.1	R 701.9	R 2,327.7	162.7	R 122.8	2,594.3	—	295.5	R 5,503.0	—	R 63.3	R 6,608.5	-590.0	2,228.8	R 8,247.3
2019	—	377.8	377.8	R 573.3	R 2,320.8	141.4	R 116.7	2,407.2	—	R 307.4	R 5,293.6	—	R 71.7	R 6,316.4	-585.4	2,218.2	R 7,949.1
2020	—	354.7	354.7	R 576.4	R 1,760.7	122.3	R 51.8	1,762.2	—	R 295.3	R 3,992.3	—	R 24.5	R 4,948.0	-519.6	2,296.5	R 6,724.9
2021	—	349.5	349.5	R 1,064.7	R 2,571.8	179.4	90.7	2,841.9	—	R 332.5	R 6,016.3	—	R 30.3	R 7,460.9	-812.1	2,470.3	R 9,119.1
2022	—	405.6	405.6	R 1,401.3	R 3,839.3	205.6	R 224.1	3,498.4	—	R 421.2	R 8,188.6	—	R 56.4	R 10,051.8	-1,008.1	2,702.5	R 11,746.2
2023	—	270.8	270.8	1,022.5	3,143.1	163.4	178.1	3,082.0	—	367.6	6,934.2	—	44.7	8,272.3	-605.9	2,669.5	10,335.8

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[l] Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
[m] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET2. Total end-use energy price and expenditure estimates, selected years, 1970-2023, New Mexico

Year	Primary energy											Electricity [k]	Total energy [h,i,j]
			Petroleum							Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g,h]	Total [h,i,j]		
	Prices in dollars per million Btu												
1970	0.58	0.43	1.07	1.34	0.76	2.94	0.41	1.25	1.94	1.04	1.20	5.62	1.46
1975	—	0.79	2.42	3.22	2.12	4.72	1.60	2.57	3.55	1.46	2.49	7.99	2.88
1980	1.17	2.79	6.81	5.98	6.59	9.58	3.82	6.40	7.90	2.46	6.22	15.52	7.11
1985	1.41	5.26	6.62	8.28	6.24	9.14	4.00	6.88	7.95	2.88	7.31	21.20	9.32
1990	1.33	4.63	7.66	8.62	6.01	9.23	2.62	6.06	8.31	4.51	7.39	20.98	9.36
1995	1.20	4.07	6.44	5.82	4.16	9.53	2.43	5.86	7.87	3.64	6.85	20.12	9.10
2000	1.16	5.52	10.00	11.83	6.83	12.06	3.66	6.66	10.61	5.72	9.24	19.40	10.98
2005	1.54	9.81	17.29	18.74	13.16	18.43	6.57	9.11	17.19	9.11	15.34	22.15	16.54
2006	1.68	11.23	19.42	20.60	15.02	20.93	8.01	10.07	19.38	10.43	17.60	21.75	18.35
2007	2.00	10.61	21.10	19.11	15.73	23.12	9.07	10.00	20.79	11.53	18.55	21.96	19.16
2008	2.11	11.04	27.29	27.07	22.56	26.27	12.99	12.50	25.58	14.22	22.06	24.65	22.56
2009	2.53	8.29	17.81	22.46	12.90	19.20	9.37	21.35	18.76	10.64	16.32	23.96	17.86
2010	2.38	8.38	21.53	23.92	16.61	22.67	11.38	R 25.04	R 22.17	12.45	R 18.83	24.88	R 20.06
2011	2.56	7.85	27.85	27.24	22.81	28.74	—	R 26.49	R 28.01	15.23	R 23.22	25.92	R 23.77
2012	2.86	7.27	28.55	23.09	22.84	29.22	—	R 27.64	R 28.44	16.93	R 23.61	26.21	R 24.15
2013	2.80	R 7.47	28.20	23.17	21.93	28.35	—	R 28.14	R 27.86	16.62	R 22.66	27.25	R 23.58
2014	2.76	R 8.42	27.02	26.14	20.17	27.03	—	R 29.28	R 26.87	16.23	R 22.46	28.45	R 23.65
2015	2.66	R 6.99	18.76	18.01	11.79	18.97	—	R 28.62	R 19.06	11.20	R 16.16	28.35	R 18.60
2016	2.63	R 6.42	15.79	18.49	9.53	17.02	—	R 25.21	R 16.69	9.57	R 14.23	26.87	R 16.78
2017	2.42	R 7.44	18.15	21.07	11.89	19.31	—	26.44	18.90	10.72	R 16.42	28.27	R 18.76
2018	2.73	R 6.26	21.76	22.19	15.50	21.30	—	27.75	21.61	R 11.85	18.03	27.57	19.89
2019	3.03	R 5.26	20.64	19.77	14.36	19.80	—	R 30.03	R 20.39	11.43	16.52	26.48	R 18.45
2020	3.50	R 5.53	16.87	17.81	9.29	16.19	—	R 27.74	16.90	R 9.43	R 14.08	27.49	R 16.90
2021	3.48	R 8.12	22.32	24.14	14.33	23.26	—	R 30.37	R 22.95	R 11.31	R 19.53	28.82	R 21.40
2022	3.79	R 11.07	R 34.42	25.54	25.98	30.27	—	R 38.63	R 32.15	R 17.55	R 27.28	29.48	R 27.76
2023	5.01	10.14	28.66	22.91	20.75	26.74	—	36.51	27.66	16.04	23.71	27.87	24.66
	Expenditures in million dollars												
1970	0.1	63.0	33.6	21.8	12.9	202.9	0.3	20.1	291.6	0.9	355.6	106.6	462.2
1975	—	88.0	94.4	41.6	30.9	409.2	12.8	44.9	633.9	1.5	723.4	179.5	902.9
1980	1.2	251.2	307.4	99.6	96.0	850.8	19.4	119.2	1,492.4	2.6	1,747.3	460.2	2,207.5
1985	2.7	251.7	282.9	93.9	97.7	859.5	18.1	94.4	1,446.5	4.1	1,709.6	836.0	2,545.6
1990	1.3	298.6	353.9	242.7	96.2	903.9	1.4	75.7	1,673.8	7.1	1,992.8	962.7	2,955.4
1995	2.2	268.5	188.3	167.1	52.3	1,042.3	2.0	86.6	1,538.7	6.0	1,815.4	1,084.9	2,900.3
2000	2.4	421.1	690.1	127.5	116.8	1,332.3	3.1	102.5	2,372.5	10.4	2,806.4	1,218.7	4,025.1
2005	3.1	694.0	1,438.8	201.3	170.4	2,201.9	3.6	130.3	4,146.1	40.5	4,883.7	1,519.6	6,403.3
2006	3.4	686.3	1,768.9	245.4	200.5	2,533.1	7.0	150.0	4,904.7	41.7	5,636.1	1,545.4	7,181.5
2007	3.9	706.1	1,898.0	492.0	173.3	2,727.1	9.0	176.9	5,476.2	50.6	6,236.9	1,618.7	7,855.5
2008	3.3	739.5	2,211.3	271.1	230.1	2,970.7	18.7	175.3	5,877.2	69.2	6,689.2	1,796.5	8,485.7
2009	3.7	507.6	R 1,275.1	200.8	97.9	2,255.9	0.6	239.9	R 4,070.2	36.1	R 4,617.5	1,710.1	R 6,327.7
2010	2.6	553.2	R 1,690.8	204.6	153.9	2,495.6	2.4	R 298.5	R 4,846.0	45.2	R 5,447.0	1,833.5	R 7,280.5
2011	1.5	532.6	R 2,295.7	217.2	196.9	3,277.3	—	R 344.8	R 6,331.9	52.5	R 6,918.5	1,964.3	R 8,882.8
2012	2.9	469.2	R 2,386.6	176.5	194.4	3,347.4	—	R 348.0	R 6,452.8	49.2	R 6,974.1	1,997.5	R 8,971.6
2013	3.5	R 556.3	R 2,412.0	195.2	182.7	3,211.9	—	R 319.9	R 6,321.6	62.0	R 6,943.4	2,106.6	R 9,050.0
2014	4.0	R 592.1	R 2,517.6	200.4	163.4	3,114.4	—	R 332.9	R 6,328.6	R 61.1	R 6,985.8	2,205.2	R 9,191.0
2015	4.5	R 485.0	R 1,697.2	126.4	98.5	2,230.9	—	R 320.1	R 4,473.0	R 47.2	R 5,009.7	2,201.2	R 7,210.9
2016	4.8	R 435.7	R 1,447.0	128.2	76.6	1,973.3	—	R 262.2	R 3,887.3	R 42.2	R 4,369.9	2,081.7	R 6,451.5
2017	4.3	R 466.1	R 1,794.3	135.5	101.7	2,372.9	—	244.8	R 4,649.3	R 41.2	R 5,160.9	2,186.6	R 7,347.5
2018	4.9	R 452.8	R 2,323.0	162.7	R 122.8	2,594.3	—	295.5	R 5,498.3	R 62.4	R 6,018.5	2,228.8	R 8,247.3
2019	4.4	R 438.8	R 2,243.9	141.4	R 116.7	2,407.2	—	R 307.4	R 5,216.7	R 71.1	R 5,731.0	2,218.2	R 7,949.1
2020	5.4	R 411.7	R 1,755.6	122.3	R 51.8	1,762.2	—	R 295.3	R 3,987.2	R 24.0	R 4,428.3	2,296.5	R 6,724.9
2021	4.8	R 605.7	R 2,564.1	179.4	90.7	2,841.9	—	R 332.5	R 6,008.7	R 29.6	R 6,648.8	2,470.3	R 9,119.1
2022	5.8	R 800.5	R 3,832.5	205.6	R 224.1	3,498.4	—	R 421.2	R 8,181.8	R 55.7	R 9,043.7	2,702.5	R 11,746.2
2023	7.1	702.2	3,121.5	163.4	178.1	3,082.0	—	367.6	6,912.7	44.3	7,666.4	2,669.5	10,335.8

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. · Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2023, New Mexico

Year	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
	Prices in dollars per million Btu									
1970	0.90	0.86	0.98	1.58	1.49	1.58	0.72	0.99	8.15	1.76
1975	—	1.24	2.82	4.16	3.05	4.12	1.43	1.63	10.47	3.04
1980	2.54	3.17	6.79	7.19	7.95	7.29	3.66	3.78	18.89	6.64
1985	2.83	5.59	6.92	8.62	6.59	8.54	4.14	6.27	25.48	10.97
1990	2.41	5.36	6.47	9.28	6.81	9.25	4.75	6.00	26.19	10.96
1995	2.24	4.94	5.23	9.31	3.99	9.24	3.86	5.30	26.16	11.43
2000	2.13	6.30	8.44	12.62	7.86	12.58	5.88	7.37	24.50	12.12
2005	2.45	10.87	13.98	20.29	13.41	20.25	9.20	12.29	26.76	16.72
2006	3.73	12.38	16.14	22.30	17.07	22.27	10.60	14.07	26.55	18.14
2007	2.94	11.68	17.67	23.97	15.51	23.93	11.71	13.51	26.73	17.84
2008	—	11.90	24.59	28.26	19.23	28.24	14.42	14.60	29.34	19.33
2009	—	9.27	14.37	23.57	19.60	23.56	10.83	11.68	29.38	17.69
2010	—	9.43	17.46	25.54	20.79	25.53	12.78	11.89	30.84	18.27
2011	—	8.94	25.14	29.20	25.69	29.20	15.36	12.02	32.23	19.07
2012	—	8.50	25.05	26.75	26.89	26.75	17.11	11.23	33.34	19.23
2013	—	8.66	26.06	26.48	26.40	26.48	16.76	11.46	34.24	19.08
2014	—	9.79	25.12	31.25	25.60	31.24	16.34	12.84	35.99	20.96
2015	—	8.31	15.76	23.41	16.83	23.40	11.26	10.12	36.55	19.32
2016	—	7.71	13.37	22.33	13.42	22.32	9.62	9.54	35.27	18.47
2017	—	8.86	15.51	26.07	16.78	26.06	10.76	10.82	37.75	20.65
2018	—	7.62	17.09	27.10	24.24	27.09	11.90	10.00	37.17	19.31
2019	—	6.21	16.46	23.69	22.64	23.67	11.46	8.30	36.67	16.88
2020	—	6.84	13.52	20.74	14.70	20.72	9.47	R 8.48	37.91	R 19.03
2021	—	9.47	16.15	27.15	23.22	27.14	11.37	11.59	39.61	R 21.55
2022	—	12.13	24.93	30.16	36.69	30.15	R 17.58	R 14.42	40.57	R 23.66
2023	—	11.36	22.80	27.89	33.69	27.88	16.07	13.31	40.58	23.10
	Expenditures in million dollars									
1970	(s)	28.6	(s)	11.6	0.2	11.9	0.3	40.8	41.0	81.8
1975	—	37.0	0.1	19.3	0.5	19.9	0.7	57.6	69.9	127.5
1980	0.5	95.0	0.4	31.8	6.0	38.2	1.7	135.3	158.1	293.3
1985	0.1	133.4	0.6	65.9	1.5	68.0	3.0	204.5	269.4	473.9
1990	(s)	159.5	0.3	57.9	0.2	58.3	6.3	224.1	318.7	542.8
1995	(s)	145.1	0.1	29.3	0.1	29.5	5.0	179.6	368.1	547.8
2000	(s)	219.1	0.3	94.1	0.3	94.7	8.8	322.7	412.7	735.4
2005	(s)	370.3	0.3	152.0	0.3	152.7	34.9	557.9	535.6	1,093.4
2006	(s)	384.7	0.3	173.8	0.4	174.5	35.6	594.8	544.3	1,139.1
2007	(s)	401.3	0.4	158.6	0.2	159.2	43.5	604.0	582.5	1,186.5
2008	—	415.8	0.3	196.2	0.1	196.7	60.0	672.4	638.5	1,310.9
2009	—	308.8	0.1	164.2	0.1	164.4	31.5	504.7	651.9	1,156.6
2010	—	339.5	0.1	160.2	0.1	160.4	39.9	539.8	710.5	1,250.3
2011	—	313.5	0.1	165.9	(s)	166.1	46.5	526.0	755.9	1,281.9
2012	—	282.6	0.1	130.5	(s)	130.6	43.2	456.4	769.4	1,225.8
2013	—	321.3	0.3	152.2	(s)	152.4	55.3	529.0	794.9	1,323.9
2014	—	327.9	0.2	153.0	(s)	153.2	54.5	535.7	812.0	1,347.7
2015	—	285.9	0.1	102.2	(s)	102.4	41.6	429.8	828.2	1,258.0
2016	—	262.2	0.1	107.9	(s)	108.0	R 36.5	406.7	799.3	1,206.0
2017	—	276.5	0.1	104.8	(s)	104.8	R 35.5	416.8	836.8	1,253.6
2018	—	271.7	0.1	120.3	(s)	120.4	R 55.2	R 447.3	865.8	R 1,313.0
2019	—	271.3	0.2	113.8	(s)	114.0	R 63.1	R 448.3	859.7	R 1,308.0
2020	—	256.5	0.1	101.0	(s)	101.2	R 20.0	R 377.6	942.0	R 1,319.7
2021	—	347.4	0.1	136.7	(s)	136.8	R 24.8	R 509.0	958.1	R 1,467.1
2022	—	458.1	0.2	149.5	(s)	149.7	R 48.3	R 656.1	1,008.2	R 1,664.3
2023	—	428.8	0.2	128.4	(s)	128.6	37.5	594.9	1,015.8	1,610.7

[a] Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2023, New Mexico

Year	Primary energy										Electricity [j]	Total energy [g,h,i]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f,g]	Total [g,h,i]		
	Prices in dollars per million Btu											
1970	0.56	0.44	0.92	1.11	1.01	2.94	—	1.30	0.72	0.50	5.78	1.37
1975	—	0.74	2.62	2.52	2.22	4.72	—	2.95	1.43	0.96	7.90	2.74
1980	0.88	2.79	6.57	5.13	6.80	9.58	—	6.75	3.66	3.50	15.95	6.76
1985	1.39	5.34	6.11	7.08	6.59	9.14	4.00	6.90	4.14	5.63	22.57	12.56
1990	1.31	4.20	5.52	7.60	6.81	9.23	—	6.72	4.75	4.59	22.21	11.63
1995	1.19	3.67	4.11	8.57	3.99	9.53	—	5.80	3.86	3.83	21.85	12.05
2000	1.15	5.06	6.81	11.84	7.86	12.06	—	9.54	5.88	5.57	19.84	12.53
2005	1.53	9.09	13.12	16.82	13.41	18.43	—	14.30	9.20	9.97	22.89	16.20
2006	1.67	10.43	15.38	18.61	17.07	20.93	—	17.26	10.60	11.37	22.31	16.92
2007	1.99	9.78	17.01	20.51	15.51	23.12	—	19.20	11.71	10.70	22.46	16.74
2008	—	10.11	23.73	24.86	19.23	26.27	—	24.13	14.42	12.49	25.41	18.78
2009	—	7.31	13.66	19.98	19.60	19.20	—	16.62	10.83	8.32	24.61	16.61
2010	—	7.32	17.61	21.29	20.79	22.67	—	19.65	12.78	8.65	25.12	17.12
2011	—	6.83	23.90	24.81	25.69	28.74	—	24.51	15.36	8.64	26.59	18.04
2012	—	6.17	24.61	18.82	26.89	29.22	—	21.70	17.11	7.89	27.33	18.02
2013	—	6.57	23.89	18.40	26.40	28.35	—	21.29	16.76	8.04	28.55	18.27
2014	—	7.61	21.76	19.50	25.60	27.03	—	20.92	16.34	9.16	30.10	19.70
2015	—	6.09	13.01	11.62	16.83	18.97	—	15.07	11.26	R 7.54	30.20	R 18.69
2016	—	5.44	11.09	11.51	13.42	17.02	—	13.70	9.62	6.73	28.57	R 17.44
2017	—	6.33	13.37	15.06	16.78	19.31	—	16.65	10.76	7.88	29.87	R 19.00
2018	—	5.38	16.71	16.49	24.24	21.30	—	18.73	11.90	R 7.32	29.37	R 18.18
2019	—	4.42	15.57	12.77	22.64	19.80	—	16.14	11.46	R 6.32	28.70	16.51
2020	—	4.62	10.35	11.97	14.70	16.19	—	13.30	9.47	R 6.00	30.11	R 17.53
2021	—	7.11	16.48	19.12	23.22	23.26	—	20.07	11.37	R 9.17	31.66	R 19.72
2022	—	10.02	28.04	20.27	36.69	30.27	—	R 26.19	R 17.58	R 12.68	32.46	R 22.04
2023	—	8.95	22.03	15.96	33.69	26.74	—	22.11	16.07	11.06	31.31	20.85
	Expenditures in million dollars											
1970	(s)	15.7	0.6	1.9	(s)	1.1	—	3.6	(s)	19.4	43.7	63.1
1975	—	18.2	2.7	2.8	0.1	2.3	—	7.8	(s)	26.0	74.0	100.0
1980	0.6	71.7	5.1	5.3	25.4	5.5	—	41.3	(s)	113.7	184.0	297.6
1985	0.2	97.2	11.4	12.8	2.3	5.4	0.1	32.0	0.1	129.4	359.2	488.6
1990	0.1	105.0	13.7	11.2	0.6	6.1	—	31.6	0.7	137.5	442.8	580.2
1995	0.2	89.5	5.8	6.4	0.1	0.9	—	13.1	0.7	103.5	495.0	598.5
2000	0.2	132.3	10.5	20.8	0.4	1.2	—	32.9	1.5	166.9	566.6	733.5
2005	0.1	225.2	48.0	25.6	0.2	2.2	—	76.0	5.6	306.9	656.8	963.7
2006	0.1	249.3	26.9	40.0	0.2	2.2	—	69.3	6.0	324.7	655.1	979.7
2007	0.1	249.8	18.6	31.8	0.1	2.4	—	53.0	7.0	309.9	684.6	994.5
2008	—	261.7	82.1	40.2	(s)	2.8	—	125.1	9.1	395.9	765.2	1,161.1
2009	—	185.8	21.4	25.9	(s)	2.0	—	49.3	4.4	239.5	733.5	973.0
2010	—	187.9	23.7	31.7	(s)	2.3	—	57.8	5.2	250.9	772.6	1,023.5
2011	—	174.7	33.1	31.2	(s)	3.1	—	67.4	6.0	248.2	840.1	1,088.2
2012	—	157.1	31.2	29.5	(s)	3.2	—	63.9	5.8	226.8	854.6	1,081.5
2013	—	181.4	R 30.3	26.1	(s)	3.2	—	59.6	6.6	247.6	875.0	R 1,122.6
2014	—	202.2	36.9	28.3	(s)	2.8	—	R 68.1	R 6.5	R 276.8	921.9	R 1,198.7
2015	—	158.2	R 22.4	13.3	(s)	36.5	—	72.2	R 5.6	R 236.0	914.7	R 1,150.7
2016	—	141.7	R 16.7	13.1	(s)	32.7	—	R 62.5	R 5.6	R 209.8	858.3	R 1,068.2
2017	—	155.7	R 13.4	18.2	(s)	37.7	—	R 69.3	R 5.7	R 230.6	895.3	R 1,125.9
2018	—	144.5	12.2	26.4	(s)	42.1	—	80.7	R 7.2	R 232.5	905.5	R 1,138.0
2019	—	135.3	26.7	23.8	(s)	39.2	—	R 89.8	R 7.9	R 232.9	884.2	R 1,117.1
2020	—	120.9	R 13.7	16.8	0.1	32.3	—	R 62.9	R 4.0	R 187.8	863.8	R 1,051.6
2021	—	197.5	R 21.9	34.7	(s)	47.2	—	103.7	R 4.8	R 306.0	935.0	R 1,241.0
2022	—	286.7	38.3	39.3	(s)	66.1	—	R 143.7	R 7.4	R 437.7	1,006.0	R 1,443.7
2023	—	254.8	31.3	26.0	(s)	58.3	—	115.7	6.7	377.2	998.7	1,375.9

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[g] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[j] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: Expenditure totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2023, New Mexico

	Primary energy													
	Coal				Petroleum						Biomass			
	Coking coal	Steam coal	Total	Natural gas [a]	Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e,f]	Total [f,g,h]	Electricity [i]	Total energy [f,g,h]
Year	Prices in dollars per million Btu													
1970	—	0.56	0.56	0.25	0.95	1.16	2.94	0.41	0.94	1.03	1.49	0.49	3.44	0.65
1975	—	—	—	0.58	2.05	2.74	4.72	1.60	2.17	2.16	1.49	1.27	5.54	1.52
1980	—	0.88	0.88	2.46	6.42	5.58	9.58	3.82	5.14	5.54	1.49	4.11	12.11	5.02
1985	—	1.39	1.39	3.67	6.07	7.95	9.14	4.00	5.60	5.90	1.49	5.34	16.01	7.82
1990	—	1.31	1.31	3.49	5.84	8.47	9.23	2.62	4.10	6.76	1.66	6.05	14.59	7.83
1995	—	1.19	1.19	2.77	4.43	5.20	9.53	2.43	4.30	5.05	1.62	4.53	12.91	6.24
2000	—	1.15	1.15	4.54	7.09	7.84	12.06	3.66	4.90	6.35	1.22	5.57	13.73	7.74
2005	—	1.53	1.53	8.41	13.60	12.47	18.43	6.57	6.56	11.00	1.66	9.87	16.44	11.94
2006	—	1.67	1.67	8.73	15.85	15.18	20.93	8.01	7.05	12.58	1.68	11.49	16.32	13.15
2007	—	1.99	1.99	8.32	17.27	17.09	23.12	9.07	7.18	14.11	1.68	13.08	16.40	13.96
2008	—	2.11	2.11	9.99	24.09	21.68	26.27	12.99	8.11	17.20	1.68	15.43	18.71	16.60
2009	—	2.53	2.53	5.26	13.98	13.30	19.20	9.37	18.02	16.38	1.68	14.50	16.76	15.49
2010	—	2.38	2.38	6.04	17.90	15.23	22.67	11.38	R 20.56	R 19.40	1.68	R 16.73	17.61	R 17.09
2011	—	2.56	2.56	6.08	23.98	18.83	28.74	—	R 21.24	R 22.86	2.21	R 18.77	17.77	R 18.37
2012	—	2.86	2.86	4.85	24.72	13.37	29.22	—	R 22.46	R 23.55	2.18	R 19.59	17.09	R 18.57
2013	—	2.80	2.80	5.41	24.21	12.99	28.35	—	R 22.58	R 23.35	2.12	R 17.77	18.63	R 18.11
2014	—	2.76	2.76	5.98	22.88	13.99	27.03	—	R 23.51	R 22.96	2.74	R 17.76	19.38	R 18.38
2015	—	2.66	2.66	4.45	13.78	6.82	18.97	—	R 22.49	R 17.66	2.69	R 13.36	18.56	R 15.58
2016	—	2.63	2.63	4.00	12.15	6.72	17.02	—	R 18.78	R 14.91	2.47	R 11.80	17.11	R 14.04
2017	—	2.42	2.42	4.86	14.79	10.16	19.31	—	19.17	16.43	2.08	13.43	18.04	15.40
2018	—	2.73	2.73	3.59	18.18	11.50	21.30	—	21.06	19.22	2.37	14.55	17.13	15.60
2019	—	3.03	3.03	3.37	16.76	7.67	19.80	—	R 23.29	R 19.21	3.34	R 14.55	16.06	R 15.24
2020	—	3.50	3.50	2.97	11.65	6.79	16.19	—	R 21.44	R 16.33	3.34	R 11.62	16.35	R 13.85
2021	—	3.48	3.48	5.85	17.93	13.58	23.26	—	R 22.89	R 20.29	3.34	R 15.72	18.05	R 16.82
2022	—	3.79	3.79	9.32	28.08	14.38	30.27	—	R 29.84	R 28.37	R 3.45	R 24.02	19.22	R 21.51
2023	—	5.01	5.01	4.92	22.62	9.87	26.74	—	28.79	24.88	3.45	22.06	16.86	19.07
	Expenditures in million dollars													
1970	—	0.1	0.1	18.7	11.7	7.3	3.0	0.3	13.5	35.7	0.5	55.1	21.9	76.9
1975	—	—	—	32.8	27.5	17.5	3.6	12.8	34.0	95.4	0.7	129.0	35.6	164.6
1980	—	0.2	0.2	84.5	82.1	61.9	4.2	19.4	61.7	229.3	0.9	314.8	118.1	432.9
1985	—	2.5	2.5	21.1	91.8	12.1	17.3	18.0	64.4	203.6	1.0	228.3	207.5	435.7
1990	—	1.1	1.1	34.1	50.5	169.4	16.0	1.4	43.6	280.9	0.2	316.6	201.2	517.8
1995	—	2.0	2.0	33.5	49.1	127.2	32.4	2.0	56.7	267.5	0.3	303.2	221.8	525.0
2000	—	2.2	2.2	69.2	93.3	11.7	21.7	3.1	66.6	196.3	0.1	267.8	239.4	507.2
2005	—	3.0	3.0	98.0	151.8	18.0	69.7	3.6	84.0	327.1	0.1	428.1	327.3	755.4
2006	—	3.2	3.2	50.9	203.3	25.7	81.4	7.0	95.2	412.6	0.1	466.8	346.1	812.9
2007	—	3.7	3.7	53.6	231.7	297.9	60.8	9.0	117.0	716.4	0.1	773.9	351.6	1,125.5
2008	—	3.3	3.3	59.3	322.3	22.2	62.9	18.7	100.3	526.4	0.1	589.1	392.7	981.8
2009	—	3.7	3.7	12.3	119.9	6.7	44.3	0.6	177.2	348.7	0.1	364.8	324.7	689.5
2010	—	2.6	2.6	24.5	167.9	11.2	46.4	2.4	R 212.0	R 439.9	0.2	R 467.1	350.4	R 817.5
2011	—	1.5	1.5	42.0	224.2	18.4	59.0	—	R 242.5	R 544.1	0.1	R 587.7	368.4	R 956.0
2012	—	2.9	2.9	27.1	271.3	15.4	56.7	—	R 249.5	R 592.8	0.1	R 622.8	373.4	R 996.2
2013	—	3.5	3.5	52.1	281.8	15.5	56.5	—	R 222.9	R 576.7	0.1	R 632.3	436.7	R 1,069.1
2014	—	4.0	4.0	60.4	330.0	17.5	46.8	—	R 229.4	R 623.7	0.1	R 688.1	471.3	R 1,159.4
2015	—	4.5	4.5	39.2	120.9	9.7	54.5	—	R 212.7	R 397.7	0.1	R 441.5	458.3	R 899.8
2016	—	4.8	4.8	30.7	145.1	5.8	50.6	—	R 164.8	R 366.3	0.1	R 401.8	424.0	R 825.8
2017	—	4.3	4.3	32.0	199.9	11.9	57.7	—	147.3	416.7	(s)	453.1	454.5	907.7
2018	—	4.9	4.9	34.5	249.2	13.4	67.3	—	191.5	521.5	0.1	561.0	457.5	1,018.5
2019	—	4.4	4.4	30.2	218.1	3.6	58.6	—	R 202.8	R 483.1	0.1	R 517.8	474.3	R 992.2
2020	—	5.4	5.4	30.6	103.7	3.6	48.4	—	R 197.7	R 353.5	0.1	R 389.6	490.7	R 880.3
2021	—	4.8	4.8	56.7	217.0	7.8	63.3	—	R 214.6	R 502.6	0.1	R 564.3	577.2	R 1,141.5
2022	—	5.8	5.8	51.2	343.5	16.2	90.3	—	R 277.5	R 727.6	R (s)	R 784.6	688.3	R 1,472.8
2023	—	7.1	7.1	13.0	270.0	8.7	80.1	—	255.5	614.3	(s)	634.5	655.0	1,289.4

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[i] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.
Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET6. Transportation sector energy price and expenditure estimates, selected years, 1970-2023, New Mexico

Year	Primary energy											Electricity [g]	Total energy [f]
			Petroleum										
	Coal	Natural gas[a]	Aviation gasoline	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Lubricants	Motor gasoline [e]	Residual fuel oil	Total	Total [f]		
	Prices in dollars per million Btu												
1970	0.56	—	2.17	1.15	1.11	0.76	5.08	2.94	0.38	2.27	2.27	—	2.27
1975	—	—	3.45	2.62	2.52	2.12	7.48	4.72	—	4.03	4.03	—	4.03
1980	—	—	9.02	6.97	5.13	6.59	14.36	9.58	—	8.69	8.69	—	8.69
1985	—	—	9.99	6.98	8.46	6.24	18.18	9.14	—	8.47	8.47	—	8.47
1990	—	—	9.32	8.26	9.53	6.01	20.61	9.23	—	8.76	8.76	—	8.76
1995	—	3.78	8.36	7.98	11.82	4.16	21.75	9.53	—	8.96	8.96	—	8.96
2000	—	4.34	10.87	10.80	12.61	6.83	23.20	12.06	—	11.27	11.26	—	11.26
2005	—	1.61	18.56	18.12	20.16	13.16	35.22	18.43	—	18.08	18.05	—	18.05
2006	—	5.17	22.31	20.12	21.56	15.02	43.88	20.93	—	20.38	20.36	—	20.36
2007	—	5.63	23.70	21.84	24.42	15.73	47.16	23.12	—	22.38	22.36	—	22.36
2008	—	11.46	27.23	28.16	28.99	22.56	55.12	26.27	—	26.89	26.87	—	26.87
2009	—	3.67	20.32	18.45	22.95	12.90	56.07	19.20	—	18.89	18.88	—	18.88
2010	—	4.37	25.19	22.11	26.29	16.61	58.80	22.67	—	22.43	22.40	—	22.40
2011	—	9.23	31.64	28.43	29.98	22.81	69.54	28.74	—	28.65	28.63	—	28.63
2012	—	9.83	33.04	29.21	22.82	22.84	72.11	29.22	—	29.22	29.19	—	29.19
2013	—	R 9.68	32.71	28.92	22.32	21.93	69.42	28.35	—	28.57	R 28.55	—	R 28.55
2014	—	R 9.71	33.16	27.91	23.63	20.17	69.44	27.03	—	27.39	R 27.37	—	R 27.37
2015	—	R 9.41	24.86	19.43	14.23	11.79	67.28	18.97	—	19.22	19.21	—	19.21
2016	—	R 8.87	21.62	16.43	14.10	9.53	65.78	17.02	—	16.84	16.83	—	16.83
2017	—	R 8.54	24.13	18.75	18.71	11.89	67.25	19.31	—	19.10	R 19.09	—	R 19.09
2018	—	R 8.89	27.04	22.34	20.49	15.50	72.37	21.30	—	21.85	21.84	—	21.84
2019	—	R 9.12	25.57	21.27	15.70	14.36	74.92	19.80	—	20.56	R 20.55	—	R 20.55
2020	—	R 9.25	22.34	17.46	13.80	9.29	75.34	16.19	—	16.95	R 16.93	—	R 16.93
2021	—	R 9.83	28.86	22.92	23.29	14.33	81.25	23.26	—	23.22	R 23.19	—	R 23.19
2022	—	R 10.80	36.02	35.30	24.11	25.98	97.37	30.27	—	R 32.79	32.75	—	32.75
2023	—	14.49	32.62	29.52	18.00	20.75	105.48	26.74	—	28.11	28.08	—	28.08
	Expenditures in million dollars												
1970	(s)	—	1.2	21.2	1.0	12.9	5.1	198.9	(s)	240.4	240.4	—	240.4
1975	—	—	1.4	64.0	2.0	30.9	9.0	403.4	—	510.8	510.8	—	510.8
1980	—	—	7.6	219.7	0.6	96.0	18.6	841.2	—	1,183.6	1,183.6	—	1,183.6
1985	—	—	4.8	179.2	3.1	97.7	21.4	836.8	—	1,142.9	1,147.3	—	1,147.3
1990	—	—	4.0	289.4	4.3	96.2	27.3	881.8	—	1,303.1	1,314.6	—	1,314.6
1995	—	0.4	2.3	133.3	4.3	52.3	27.5	1,009.0	—	1,228.6	1,229.0	—	1,229.0
2000	—	0.5	4.0	586.0	0.9	116.8	31.3	1,309.5	—	2,048.6	2,049.1	—	2,049.1
2005	—	0.5	5.6	1,238.7	5.7	170.4	40.1	2,129.9	—	3,590.4	3,590.8	—	3,590.8
2006	—	1.4	5.5	1,538.4	5.9	200.5	48.7	2,449.4	—	4,248.3	4,249.8	—	4,249.8
2007	—	1.4	5.5	1,647.3	3.7	173.3	54.0	2,663.8	—	4,547.6	4,549.0	—	4,549.0
2008	—	2.8	16.3	1,806.6	12.5	230.1	58.6	2,905.0	—	5,029.1	5,031.9	—	5,031.9
2009	—	0.8	8.9	R 1,133.8	4.0	97.9	53.6	2,209.6	—	R 3,507.8	R 3,508.5	—	R 3,508.5
2010	—	1.3	6.1	R 1,499.1	1.4	153.9	80.4	2,446.9	—	R 4,187.8	R 4,189.2	—	R 4,189.2
2011	—	2.4	7.2	R 2,038.3	1.7	196.9	95.1	3,215.1	—	R 5,554.3	R 5,556.7	—	R 5,556.7
2012	—	2.5	6.9	R 2,084.0	1.1	194.4	91.6	3,287.6	—	R 5,665.6	R 5,668.1	—	R 5,668.1
2013	—	R 1.6	6.1	R 2,099.7	1.4	182.7	90.8	3,152.1	—	R 5,532.9	R 5,534.4	—	R 5,534.4
2014	—	R 1.5	7.6	2,150.5	1.6	163.4	95.9	3,064.8	—	R 5,483.6	R 5,485.2	—	R 5,485.2
2015	—	R 1.7	5.1	R 1,553.8	1.2	98.5	102.3	2,139.9	—	R 3,900.7	R 3,902.4	—	R 3,902.4
2016	—	R 1.0	4.6	R 1,285.2	1.4	76.6	92.8	1,890.0	—	R 3,350.5	R 3,351.5	—	R 3,351.5
2017	—	R 1.9	4.6	R 1,581.0	0.7	101.7	92.9	2,277.6	—	R 4,058.5	R 4,060.4	—	R 4,060.4
2018	—	R 2.1	5.3	R 2,061.5	2.6	R 122.8	98.7	2,484.9	—	R 4,775.8	R 4,777.8	—	R 4,777.8
2019	—	R 2.0	5.2	R 1,998.9	0.2	R 116.7	R 99.4	2,309.5	—	R 4,529.8	R 4,531.8	—	R 4,531.8
2020	—	R 3.6	3.9	R 1,638.1	1.0	R 51.8	R 93.6	1,681.5	—	R 3,469.7	R 3,473.3	—	R 3,473.3
2021	—	R 4.0	5.6	R 2,325.1	0.2	90.7	R 112.4	2,731.5	—	R 5,265.5	R 5,269.5	—	R 5,269.5
2022	—	R 4.5	7.2	R 3,450.5	0.6	R 224.1	R 136.5	3,342.0	—	R 7,160.9	R 7,165.3	—	R 7,165.3
2023	—	5.7	6.2	2,820.1	0.3	178.1	105.9	2,943.6	—	6,054.1	6,059.8	—	6,059.8

[a] Transportation use of natural gas as vehicle fuel only.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET7. Electric power sector price and expenditure estimates, selected years, 1970-2023, New Mexico

Year	Coal	Natural gas [a]	Petroleum: Distillate fuel oil	Petroleum: Petroleum coke	Petroleum: Residual fuel oil	Petroleum: Total	Nuclear fuel	Biomass: Wood and waste [b]	Electricity imports [c]	Total energy [d]
	Prices in dollars per million Btu									
1970	0.14	0.30	0.27	—	0.23	0.23	—	—	—	0.20
1975	0.23	0.69	1.89	—	1.70	1.70	—	—	—	0.45
1980	0.56	2.47	6.53	—	3.70	5.21	—	—	—	1.02
1985	1.09	3.48	6.20	—	3.71	4.98	—	—	—	1.33
1990	1.32	1.91	6.22	—	3.09	4.70	—	0.46	—	1.37
1995	1.42	1.55	4.90	—	2.99	4.87	—	0.70	—	1.43
2000	1.38	3.88	7.59	—	—	7.59	—	0.67	16.78	1.72
2005	1.51	7.97	13.50	—	—	13.50	—	2.28	16.53	2.28
2006	1.56	6.41	17.10	—	—	17.10	—	2.32	17.32	2.32
2007	1.79	6.05	18.97	—	—	18.97	—	2.42	18.25	2.56
2008	1.99	8.04	23.53	—	—	23.53	—	2.66	18.28	3.23
2009	1.90	4.40	15.26	—	—	15.26	—	2.20	12.10	2.40
2010	2.06	4.86	19.43	—	—	19.43	—	2.40	13.31	2.69
2011	2.05	4.84	25.16	—	—	25.16	—	2.44	11.53	2.66
2012	2.18	3.35	25.77	—	—	25.77	—	2.21	9.51	2.48
2013	2.31	4.23	24.42	—	—	24.42	—	2.26	11.49	2.80
2014	3.78	4.77	23.84	—	—	23.84	—	2.73	13.31	4.10
2015	2.34	3.10	15.53	—	—	15.53	—	2.62	10.54	2.58
2016	1.90	2.92	11.32	—	—	11.32	—	2.54	8.74	2.23
2017	1.96	3.43	14.40	—	—	14.40	—	2.40	9.18	2.40
2018	2.48	2.44	19.37	—	—	19.37	—	2.22	10.74	2.48
2019	2.49	1.26	19.01	—	—	19.01	—	2.33	—	2.24
2020	2.54	1.61	13.09	—	—	13.09	—	1.80	—	2.16
2021	2.61	5.44	19.94	—	—	19.94	—	2.39	—	3.74
2022	2.93	6.50	30.80	—	—	30.80	—	2.69	—	4.39
2023	3.57	2.61	24.67	—	—	24.67	—	2.93	—	3.07
	Expenditures in million dollars									
1970	14.2	17.7	(s)	—	0.1	0.1	—	—	—	32.0
1975	30.0	46.8	0.4	—	18.2	18.6	—	—	—	95.4
1980	112.8	142.9	8.2	—	4.1	12.3	—	—	—	268.0
1985	290.9	99.1	1.6	—	0.9	2.6	—	—	—	392.6
1990	362.0	50.2	1.3	—	0.6	2.0	—	0.1	—	414.3
1995	387.4	50.4	1.2	—	(s)	1.3	—	0.1	—	439.1
2000	418.3	180.3	3.0	—	—	3.0	—	0.1	(s)	601.6
2005	476.7	330.2	5.0	—	—	5.0	—	0.1	4.6	816.6
2006	491.0	358.4	7.3	—	—	7.3	—	0.5	1.8	859.0
2007	525.6	376.2	9.0	—	—	9.0	—	0.8	2.3	913.9
2008	564.0	562.3	13.8	—	—	13.8	—	1.3	2.4	1,143.9
2009	578.5	317.2	7.5	—	—	7.5	—	1.0	1.1	905.4
2010	547.7	351.4	10.4	—	—	10.4	—	0.8	1.9	912.1
2011	583.3	362.8	10.4	—	—	10.4	—	0.5	1.8	958.8
2012	572.6	256.2	13.0	—	—	13.0	—	0.7	1.0	843.5
2013	589.5	325.5	15.5	—	—	15.5	—	1.0	0.9	932.3
2014	808.4	379.5	16.9	—	—	16.9	—	0.9	1.3	1,207.1
2015	501.3	251.5	11.3	—	—	11.3	—	1.3	0.4	765.8
2016	370.6	249.5	6.6	—	—	6.6	—	0.8	0.3	627.8
2017	387.4	270.1	6.7	—	—	6.7	—	0.8	0.2	665.3
2018	335.2	249.0	4.7	—	—	4.7	—	0.9	0.1	590.0
2019	373.4	134.5	76.9	—	—	76.9	—	0.7	—	585.4
2020	349.3	164.7	5.1	—	—	5.1	—	0.5	—	519.6
2021	344.7	459.1	7.7	—	—	7.7	—	0.7	—	812.1
2022	399.8	600.8	6.8	—	—	6.8	—	0.6	—	1,008.1
2023	263.6	320.4	21.5	—	—	21.5	—	0.4	—	605.9

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[c] Electricity imported from Canada and Mexico.
[d] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET1. Primary energy, electricity, and total energy price and expenditure estimates, selected years, 1970-2023, New York

Year	Primary energy														Electric power sector [l,k,l]	Electricity [m]	Total energy [h,i,j]
	Coal				Petroleum								Biomass				
	Coking coal	Steam coal	Total	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Nuclear fuel	Wood and waste [g,h]	Total [h,i,j,k]			
	Prices in dollars per million Btu																
1970	0.58	0.49	0.51	1.07	1.24	2.16	0.72	2.92	0.43	1.62	1.36	0.20	0.96	1.17	0.44	6.70	1.81
1975	2.14	1.26	1.52	2.16	2.66	3.94	2.02	4.80	1.93	3.07	2.96	0.31	1.13	2.60	1.56	14.04	4.11
1980	2.38	1.55	1.77	4.10	6.78	7.40	6.27	10.26	4.10	7.05	6.93	0.56	1.87	5.41	2.80	19.64	8.03
1985	1.88	1.79	1.80	5.94	7.87	11.61	6.51	8.79	4.38	7.52	7.40	0.67	2.03	5.92	2.98	26.95	10.25
1990	1.71	1.64	1.65	5.23	8.08	12.66	6.03	8.83	3.63	6.72	7.14	0.65	1.47	5.46	2.23	27.47	10.50
1995	1.72	1.46	1.49	5.04	7.10	12.18	4.04	9.60	3.00	6.53	7.71	0.54	2.12	5.42	1.73	32.39	11.21
2000	1.66	1.51	1.52	7.18	10.22	15.13	6.90	12.30	4.33	8.02	10.00	0.48	2.19	7.25	3.04	33.31	13.19
2005	2.96	2.12	2.15	11.87	15.74	20.49	13.10	18.15	6.93	9.26	14.56	0.44	3.84	11.04	4.50	40.88	19.01
2006	3.26	2.44	2.46	11.22	18.23	22.98	14.89	20.79	8.08	11.48	17.75	0.49	4.11	12.10	4.24	44.75	21.14
2007	3.43	2.44	2.47	11.57	19.54	25.45	16.46	22.54	8.40	13.26	19.12	0.46	4.57	12.82	4.55	44.61	21.98
2008	4.32	2.65	2.70	13.20	25.86	29.91	23.13	26.79	12.57	14.51	24.15	0.48	5.62	15.51	5.66	48.27	25.29
2009	5.03	2.83	2.89	10.20	17.64	26.44	12.64	19.41	8.86	14.35	17.23	0.56	3.29	11.49	3.12	45.26	20.73
2010	5.39	3.17	3.24	9.70	21.37	28.28	16.43	22.98	11.72	R 19.34	R 20.52	0.64	3.72	R 13.00	3.51	48.10	R 22.79
2011	6.50	3.45	3.58	9.10	26.80	31.65	22.77	29.16	16.51	R 21.95	R 26.44	0.68	4.03	R 15.17	3.51	46.57	R 25.31
2012	5.87	3.49	3.65	7.50	28.45	27.92	23.16	30.20	16.95	R 22.19	R 27.54	0.74	3.83	R 15.07	2.93	44.39	R 25.41
2013	5.27	3.31	3.44	8.22	27.81	27.83	22.15	29.43	16.22	R 23.83	R 26.79	0.80	4.10	R 14.75	3.58	45.25	R 24.73
2014	4.30	3.32	3.38	R 8.54	R 27.05	30.89	20.61	28.37	13.73	R 25.35	R 25.88	0.76	4.32	R 14.67	3.85	47.63	R 24.50
2015	3.83	3.33	3.38	6.94	19.17	22.93	11.99	20.47	7.68	R 21.77	R 18.26	0.72	R 3.99	R 10.78	2.72	44.77	R 19.85
2016	3.40	2.90	2.96	R 6.25	16.17	21.89	9.49	18.13	5.82	R 17.58	R 15.70	0.69	R 3.35	R 9.55	2.23	42.41	R 18.13
2017	3.75	3.48	3.53	R 7.43	18.67	26.92	12.21	20.12	7.78	18.92	18.00	0.74	R 3.38	11.08	2.48	43.19	R 19.55
2018	4.05	3.63	3.69	7.89	21.80	29.97	16.00	22.23	10.47	21.95	R 20.84	0.71	R 3.73	12.47	2.83	43.46	R 21.01
2019	—	3.02	3.02	R 7.78	20.74	25.49	14.77	20.97	10.24	R 22.30	19.75	0.67	R 3.85	11.86	2.22	42.04	R 20.19
2020	—	3.21	3.21	R 7.15	17.37	21.93	10.04	17.86	7.46	R 20.34	16.91	0.64	R 2.77	R 9.92	1.85	43.57	R 19.47
2021	—	3.36	3.36	R 8.38	R 21.47	27.68	14.70	23.87	11.43	R 23.03	R 21.78	0.64	R 3.41	13.19	3.26	47.21	R 22.60
2022	—	3.65	3.65	R 11.03	R 34.08	30.33	27.35	31.56	18.62	R 32.62	R 31.24	0.63	R 4.63	R 18.98	R 5.90	53.71	R 29.11
2023	—	4.10	4.10	9.32	29.35	28.14	21.69	28.14	15.70	26.17	26.94	0.64	4.37	16.50	2.70	53.57	27.05
	Expenditures in million dollars																
1970	96.4	211.8	308.2	771.3	803.3	36.1	155.5	2,005.9	409.7	185.0	3,595.5	9.2	12.6	4,717.6	-356.1	2,001.7	6,363.2
1975	197.8	276.1	473.9	1,255.2	1,626.9	70.5	441.7	3,368.0	1,740.1	321.0	7,568.2	44.9	14.6	9,402.8	-1,372.8	4,580.2	12,610.2
1980	197.6	357.1	554.7	3,087.1	2,862.3	139.9	1,275.3	6,865.7	2,964.1	580.0	14,687.3	118.3	59.8	18,690.0	-2,610.0	7,042.1	23,122.1
1985	58.5	483.5	542.0	4,637.2	3,105.9	214.8	139.0	6,298.5	1,827.8	816.7	12,402.7	172.1	63.6	18,387.0	-2,886.9	10,362.3	25,862.4
1990	62.2	515.1	577.3	4,628.7	3,472.4	267.2	183.5	6,456.3	1,749.3	564.9	12,693.6	163.2	99.6	18,271.1	-2,527.4	12,072.7	27,816.4
1995	63.8	390.2	454.0	6,486.1	2,904.9	292.2	176.4	6,622.4	568.8	571.3	11,136.2	150.7	185.1	18,602.9	-1,909.1	14,417.7	31,111.4
2000	51.1	452.9	504.0	9,133.6	4,699.1	557.8	372.1	8,496.6	1,153.4	786.9	16,066.0	159.0	253.4	26,726.6	-3,653.4	16,143.5	39,216.8
2005	25.8	526.2	552.1	13,007.0	7,933.2	630.1	1,486.3	12,945.4	2,272.9	1,166.9	26,434.6	197.0	287.4	41,082.8	-5,731.6	20,940.8	56,292.0
2006	27.2	604.1	631.2	12,433.2	8,025.3	614.4	1,717.2	15,096.1	1,296.3	1,250.8	28,000.1	215.9	293.1	42,311.8	-5,054.1	21,715.7	58,973.5
2007	26.8	611.3	638.1	13,888.3	8,909.6	703.8	1,864.3	16,129.2	1,529.5	1,254.3	30,390.7	205.5	335.2	46,352.1	-5,654.9	22,553.4	63,250.7
2008	31.2	587.5	618.7	15,725.6	10,956.6	970.1	2,839.8	18,615.5	1,913.1	1,290.7	36,585.9	215.0	433.1	54,618.3	-6,671.1	23,726.3	71,673.5
2009	22.3	429.0	451.2	11,764.4	R 6,535.4	839.2	1,200.9	13,429.7	1,340.8	1,272.6	R 24,618.6	255.7	173.0	R 37,727.7	-3,304.8	21,623.6	R 56,046.5
2010	26.6	514.3	540.9	11,722.5	R 7,526.3	884.1	3,783.3	16,079.6	1,637.9	R 1,566.2	R 31,477.3	282.2	207.1	R 44,655.5	-3,850.0	23,735.2	R 64,540.6
2011	34.2	413.4	447.6	11,178.5	R 9,343.1	934.8	5,272.2	19,300.9	1,507.1	R 1,592.3	R 37,950.4	305.5	230.4	R 50,587.9	-3,757.7	22,888.7	R 69,718.9
2012	28.8	237.4	266.2	9,323.4	R 10,011.1	736.8	5,400.1	19,550.2	1,093.3	R 1,458.2	R 38,249.6	318.3	213.7	R 48,919.4	-3,156.5	21,683.2	R 67,446.1
2013	23.8	212.7	236.5	R 10,666.1	R 9,071.7	818.6	5,484.0	18,983.1	1,125.0	R 1,511.5	R 36,993.9	375.3	249.0	R 49,253.9	-3,889.1	22,835.6	R 68,200.4
2014	15.3	203.1	218.4	R 11,621.9	R 9,200.4	1,095.2	5,233.1	18,933.7	984.0	R 1,659.0	R 37,105.4	342.1	R 275.0	R 50,340.8	-4,125.1	23,950.5	R 70,166.2
2015	16.7	122.8	139.5	R 9,470.4	R 6,958.9	758.3	3,199.9	13,448.1	366.0	R 1,473.1	R 26,204.3	333.9	R 286.6	R 37,074.5	-2,940.0	22,747.3	R 56,881.9
2016	11.1	76.7	87.7	R 8,200.0	R 5,330.1	716.0	2,680.6	12,353.3	232.6	R 1,273.2	R 22,585.7	299.0	R 230.1	R 31,940.2	-2,304.9	21,387.8	R 51,023.0
2017	12.0	56.9	69.0	R 9,292.3	R 6,050.4	874.8	3,576.3	13,867.3	254.5	1,218.0	R 25,841.4	324.6	R 236.1	R 36,280.3	-2,324.9	21,366.2	R 55,321.6
2018	9.8	51.9	61.7	R 10,783.0	R 7,946.6	1,145.7	R 4,550.1	15,479.7	360.3	1,378.0	R 30,860.4	319.8	R 268.4	R 42,868.3	-2,775.5	22,233.1	R 62,325.9
2019	—	41.2	41.2	R 10,170.8	R 7,300.8	1,006.3	R 4,252.0	14,397.7	146.0	R 1,392.8	R 28,495.6	313.1	R 265.0	R 39,796.9	-2,111.1	20,883.5	R 58,569.4
2020	—	18.3	18.3	R 9,135.2	R 5,170.4	836.6	R 1,349.1	10,164.0	113.3	R 1,216.1	R 18,849.5	255.4	R 160.2	R 28,876.0	-1,713.8	20,872.1	R 48,034.3
2021	—	18.0	18.0	R 11,084.4	R 7,710.0	1,106.1	R 2,563.5	14,966.3	314.3	R 1,471.1	R 28,131.2	208.3	R 197.0	R 40,315.7	-2,847.5	22,782.8	R 60,251.0
2022	—	22.4	22.4	R 15,036.2	R 13,329.4	1,186.8	R 6,570.1	19,434.5	614.4	R 1,866.0	R 43,001.3	R 177.1	R 275.6	R 59,440.8	R -5,014.4	26,245.8	R 80,672.2
2023	—	19.8	19.8	12,196.0	11,097.8	1,031.7	5,851.1	17,730.1	339.9	1,679.0	37,729.6	185.2	232.6	50,848.5	-2,199.9	25,482.0	74,130.7

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[l] Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
[m] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.
Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET2. Total end-use energy price and expenditure estimates, selected years, 1970-2023, New York

Year	Primary energy											Electricity [k]	Total energy [h,i,j]
			Petroleum							Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g,h]	Total [h,i,j]		
	Prices in dollars per million Btu												
1970	0.56	1.19	1.26	2.16	0.72	2.92	0.44	1.62	1.52	0.96	1.36	6.70	1.81
1975	1.82	2.19	2.68	3.94	2.01	4.80	1.91	3.07	3.24	1.13	2.93	14.04	4.11
1980	2.07	4.40	6.79	7.40	6.27	10.26	3.92	7.05	7.57	1.87	6.38	19.64	8.03
1985	1.94	6.68	7.89	11.61	6.51	8.79	4.62	7.52	8.01	2.03	7.25	26.95	10.25
1990	1.77	6.26	8.11	12.66	6.03	8.83	3.71	6.72	7.98	2.19	7.12	27.47	10.50
1995	1.71	6.59	7.16	12.18	4.04	9.60	3.25	6.53	8.02	2.05	7.17	32.39	11.21
2000	1.63	8.29	10.27	15.13	6.90	12.30	4.39	8.14	10.60	3.04	9.27	33.31	13.19
2005	2.28	12.99	15.82	20.49	13.10	18.15	7.31	10.18	15.79	4.74	14.43	40.88	19.01
2006	2.98	13.23	18.27	22.98	14.89	20.79	8.39	11.96	18.23	5.25	16.17	44.75	21.14
2007	2.91	13.51	19.66	25.45	16.46	22.54	9.01	13.61	19.76	5.86	17.16	44.61	21.98
2008	3.49	14.52	25.88	29.91	23.13	26.79	12.63	14.81	24.43	7.46	20.47	48.27	25.29
2009	4.05	12.64	17.69	26.44	12.64	19.41	8.98	14.60	17.39	4.92	15.47	45.26	20.73
2010	4.45	11.98	21.43	28.28	16.43	22.98	11.69	R 20.56	R 20.66	5.42	R 17.45	48.10	R 22.79
2011	4.74	11.18	26.82	31.65	22.77	29.16	16.42	R 22.64	R 26.53	5.66	R 20.70	46.57	R 25.31
2012	4.73	10.09	28.48	27.92	23.16	30.20	16.86	R 22.19	R 27.56	5.31	R 21.13	44.39	R 25.41
2013	4.37	9.99	27.84	27.83	22.15	29.43	16.02	R 23.83	R 26.83	5.87	R 20.13	45.25	R 24.73
2014	4.24	R 10.24	27.10	30.89	20.61	28.37	13.43	R 25.35	R 25.99	5.95	R 19.58	47.63	R 24.50
2015	4.02	R 8.90	19.23	22.93	11.99	20.47	7.51	R 21.77	R 18.36	R 4.96	R 14.48	44.77	R 19.85
2016	3.60	R 8.36	16.20	21.89	9.49	18.13	5.66	R 17.58	R 15.73	R 4.03	R 12.83	42.41	R 18.13
2017	4.08	R 9.32	18.69	26.92	12.21	20.12	7.60	18.92	18.03	R 4.21	14.54	43.19	R 19.55
2018	4.48	R 9.78	21.88	29.97	16.00	22.23	10.03	21.95	20.93	R 4.81	R 16.33	43.46	R 21.01
2019	3.42	R 9.84	20.78	25.49	14.77	20.97	9.95	R 22.30	19.78	R 4.85	15.67	42.04	R 20.19
2020	3.67	R 9.76	17.40	21.93	10.04	17.86	7.35	R 20.34	16.93	R 3.62	R 13.67	43.57	R 19.47
2021	3.36	R 10.77	R 21.50	27.68	14.70	23.87	11.06	R 23.03	R 21.82	R 4.26	R 17.16	47.21	R 22.60
2022	3.65	R 13.20	R 34.22	30.33	27.35	31.56	18.64	R 32.62	R 31.36	R 5.30	R 23.84	53.71	R 29.11
2023	4.10	13.10	29.37	28.14	21.69	28.14	15.34	26.17	26.96	4.78	21.48	53.57	27.05
	Expenditures in million dollars												
1970	180.6	730.4	795.3	36.1	155.5	2,005.9	260.0	185.0	3,437.8	12.6	4,361.5	2,001.7	6,363.2
1975	300.6	1,243.0	1,579.0	70.5	423.1	3,368.0	710.3	321.0	6,471.9	14.6	8,030.0	4,580.2	12,610.2
1980	321.0	2,743.7	2,838.5	139.9	1,274.5	6,865.7	1,257.1	580.0	12,955.8	59.5	16,080.0	7,042.1	23,122.1
1985	204.5	4,015.1	3,076.7	214.8	139.0	6,298.5	671.3	816.7	11,217.0	63.6	15,500.1	10,362.3	25,862.4
1990	157.3	4,064.7	3,432.0	267.2	183.5	6,456.3	531.3	564.9	11,435.2	86.4	15,743.7	12,072.7	27,816.4
1995	133.0	5,570.1	2,863.2	292.2	176.4	6,622.4	365.4	571.3	10,891.0	99.8	16,693.8	14,417.7	31,111.4
2000	124.2	7,386.5	4,584.3	557.8	372.1	8,496.6	540.2	785.7	15,336.8	225.7	23,073.2	16,143.5	39,216.8
2005	99.9	10,197.5	7,830.8	630.1	1,486.3	12,945.4	784.8	1,151.2	24,828.6	225.2	35,351.2	20,940.8	56,292.0
2006	120.7	9,425.8	7,979.6	614.4	1,717.2	15,096.1	831.5	1,243.9	27,482.6	228.6	37,257.8	21,715.7	58,973.5
2007	110.3	10,585.4	8,809.4	703.8	1,864.3	16,129.2	977.3	1,249.0	29,732.9	268.7	40,697.3	22,553.4	63,250.7
2008	116.4	11,392.3	10,841.9	970.1	2,839.8	18,615.5	1,530.3	1,286.5	36,084.2	354.3	47,947.2	23,726.3	71,673.5
2009	97.8	9,826.8	R 6,481.4	839.2	1,200.9	13,429.7	1,173.9	1,269.6	R 24,394.8	103.6	R 34,422.9	21,623.6	R 56,046.5
2010	113.6	9,284.5	R 7,467.5	884.1	3,783.3	16,079.6	1,502.8	R 1,558.1	R 31,275.3	132.2	R 40,805.5	23,735.2	R 64,540.6
2011	123.3	8,765.3	R 9,300.2	934.8	5,272.2	19,300.9	1,392.5	R 1,581.5	R 37,782.1	159.5	R 46,830.2	22,888.7	R 69,718.9
2012	114.3	7,352.0	R 9,957.8	736.8	5,400.1	19,550.2	1,038.8	R 1,458.2	R 38,141.8	154.7	R 45,762.8	21,683.2	R 67,446.1
2013	94.2	R 8,268.4	R 9,000.9	818.6	5,484.0	18,983.1	1,022.2	R 1,511.5	R 36,820.4	181.8	R 45,364.8	22,835.6	R 68,200.4
2014	79.3	R 9,167.8	R 9,086.8	1,095.2	5,233.1	18,933.7	774.1	R 1,659.0	R 36,781.9	R 186.7	R 46,215.7	23,950.5	R 70,166.2
2015	77.4	R 7,815.1	R 6,888.1	758.3	3,199.9	13,448.1	266.1	R 1,473.1	R 26,033.7	R 208.3	R 34,134.6	22,747.3	R 56,881.9
2016	50.6	R 6,896.1	R 5,309.8	716.0	2,680.6	12,353.3	204.2	R 1,273.2	R 22,537.1	R 151.5	R 29,635.3	21,387.8	R 51,023.0
2017	54.2	R 7,958.5	R 6,029.2	874.8	3,576.3	13,867.3	217.9	1,218.0	R 25,783.6	R 159.1	R 33,955.4	21,366.2	R 55,321.6
2018	43.6	R 9,175.0	R 7,875.7	1,145.7	R 4,550.1	15,479.7	243.3	1,378.0	R 30,672.5	R 201.7	R 40,092.8	22,233.1	R 62,325.9
2019	30.4	R 9,016.1	R 7,269.9	1,006.3	R 4,252.0	14,397.7	119.3	R 1,392.8	R 28,438.0	R 201.3	R 37,685.9	20,883.5	R 58,569.4
2020	14.8	R 8,208.0	R 5,160.5	836.6	R 1,349.1	10,164.0	101.8	R 1,216.1	R 18,828.1	R 111.2	R 27,162.2	20,872.1	R 48,034.3
2021	18.0	R 9,272.6	R 7,691.9	1,106.1	R 2,563.5	14,966.3	245.2	R 1,471.1	R 28,044.0	R 133.6	R 37,468.2	22,782.8	R 60,251.0
2022	22.4	R 11,512.8	R 13,176.2	1,186.8	R 6,570.1	19,434.5	423.5	R 1,866.0	R 42,657.2	R 233.9	R 54,426.4	26,245.8	R 80,672.2
2023	19.8	10,770.3	11,079.6	1,031.7	5,851.1	17,730.1	289.3	1,679.0	37,660.8	197.7	48,648.7	25,482.0	74,130.7

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. · Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2023, New York

Year	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
	Prices in dollars per million Btu									
1970	1.43	1.37	1.43	2.65	1.56	1.47	0.40	1.42	8.83	2.18
1975	2.78	2.50	2.81	4.48	3.28	2.88	0.79	2.68	16.44	4.37
1980	3.26	4.85	7.08	9.12	8.49	7.21	2.02	5.67	23.08	8.23
1985	3.61	7.54	8.35	11.12	8.92	8.53	2.29	7.72	31.84	11.60
1990	3.59	7.19	8.44	13.64	6.83	8.72	2.83	7.56	33.54	12.36
1995	3.18	8.17	7.17	13.46	5.38	7.63	2.30	7.69	40.73	13.73
2000	3.02	9.55	10.82	16.66	9.44	11.28	3.50	9.71	40.95	15.10
2005	5.18	14.51	15.82	21.79	15.92	16.28	5.48	14.71	46.08	21.04
2006	4.76	15.02	18.50	24.61	19.27	19.08	6.31	15.89	49.51	23.41
2007	4.76	15.36	20.19	26.71	21.47	20.84	6.97	16.67	50.11	23.74
2008	—	16.42	24.89	31.28	27.06	25.69	8.59	18.81	53.66	26.17
2009	—	14.73	18.93	28.36	20.83	20.45	6.45	16.04	51.29	23.90
2010	—	13.72	21.89	30.08	23.77	23.24	7.61	16.02	54.93	25.31
2011	—	13.35	25.83	33.78	28.13	27.11	9.15	16.54	53.52	25.50
2012	—	12.56	28.71	31.54	29.62	29.05	10.19	17.09	51.63	25.65
2013	—	12.07	28.28	31.25	29.68	28.76	9.98	15.72	55.08	24.89
2014	—	12.13	27.59	34.49	29.84	28.86	9.73	15.86	58.83	25.02
2015	—	10.84	19.28	27.53	16.65	20.49	6.71	12.93	54.33	21.82
2016	—	10.51	16.57	27.04	13.27	18.42	5.73	11.97	51.51	21.35
2017	—	11.66	18.43	32.05	16.60	21.16	6.41	13.29	52.84	22.25
2018	—	11.98	20.30	34.88	23.47	23.25	7.09	14.16	54.28	R 22.68
2019	—	12.22	19.25	30.00	22.39	21.54	6.82	14.01	52.58	22.07
2020	—	12.38	15.75	26.18	14.54	18.22	5.64	R 13.33	53.82	R 22.97
2021	—	13.35	18.59	31.74	22.93	R 21.21	6.77	R 14.93	57.10	R 24.52
2022	—	15.83	28.13	35.68	37.92	R 29.68	R 10.47	R 18.68	64.71	29.06
2023	—	16.37	26.22	34.47	33.68	27.90	9.58	18.84	65.20	29.51
	Expenditures in million dollars									
1970	12.6	484.5	501.4	26.0	49.4	576.9	2.5	1,076.4	768.0	1,844.4
1975	8.0	830.2	914.6	48.5	69.6	1,032.7	5.1	1,876.1	1,610.5	3,486.6
1980	5.7	1,654.8	1,554.5	80.6	82.9	1,718.0	46.5	3,425.0	2,408.8	5,833.8
1985	8.2	2,478.1	1,682.5	126.3	162.8	1,971.6	48.5	4,506.5	3,558.6	8,065.1
1990	4.9	2,501.4	1,548.9	195.8	68.4	1,813.1	65.2	4,384.6	4,414.2	8,798.8
1995	2.3	3,158.3	1,194.0	214.0	37.9	1,446.0	73.1	4,679.6	5,543.7	10,223.2
2000	0.9	3,946.2	2,219.0	364.3	125.5	2,708.8	175.2	6,831.0	6,009.8	12,840.8
2005	1.7	6,047.9	3,226.3	390.1	198.8	3,815.1	167.2	10,031.9	7,945.0	17,977.0
2006	1.5	5,471.6	2,877.1	392.7	197.1	3,466.9	170.9	9,110.8	8,181.2	17,291.9
2007	1.6	6,296.1	3,515.9	489.5	160.4	4,165.8	208.6	10,672.0	8,590.7	19,262.7
2008	—	6,614.6	4,047.4	707.2	101.4	4,856.0	287.6	11,758.2	8,978.2	20,736.3
2009	—	6,093.3	2,270.1	647.1	114.9	3,032.1	75.6	9,201.0	8,442.9	17,643.9
2010	—	5,482.5	2,500.5	667.9	134.6	3,303.0	95.7	8,881.2	9,547.9	18,429.1
2011	—	5,399.3	2,750.9	667.7	115.8	3,534.4	111.6	9,045.3	9,357.0	18,402.3
2012	—	4,639.5	3,633.2	530.6	61.4	4,225.3	103.8	8,968.6	8,929.7	17,898.3
2013	—	5,200.3	R 2,968.5	606.2	66.4	R 3,641.1	132.7	R 8,974.1	9,543.5	R 18,517.6
2014	—	5,747.2	R 3,132.1	856.2	113.7	R 4,101.9	131.0	R 9,980.1	10,031.3	R 20,011.4
2015	—	5,064.3	R 2,350.3	618.5	43.2	R 3,012.1	149.8	R 8,226.1	9,456.2	R 17,682.3
2016	—	4,471.1	R 1,482.1	574.3	45.3	R 2,101.8	R 102.5	R 6,675.4	8,933.6	R 15,609.0
2017	—	5,208.1	R 1,543.2	701.5	37.9	R 2,282.5	R 110.9	R 7,601.5	8,849.1	R 16,450.7
2018	—	6,008.0	R 2,184.8	951.1	50.0	R 3,186.0	R 149.5	R 9,343.5	9,658.6	R 19,002.1
2019	—	5,972.3	R 2,033.9	848.3	73.1	R 2,955.3	R 146.9	R 9,074.4	8,995.4	R 18,069.9
2020	—	5,595.2	R 1,223.6	668.9	45.5	R 1,937.9	R 68.9	R 7,602.0	9,596.8	R 17,198.8
2021	—	6,139.9	R 1,935.9	811.6	57.2	R 2,804.7	R 85.5	R 9,030.1	10,161.8	R 19,191.8
2022	—	R 7,350.4	R 2,980.4	863.3	85.1	R 3,928.7	R 166.6	R 11,445.7	11,531.7	R 22,977.4
2023	—	7,010.6	2,709.0	792.3	134.3	3,635.7	129.5	10,775.8	11,147.7	21,923.5

[a] Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2023, New York

Year	Primary energy										Electricity [j]	Total energy [g,h,i]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f,g]	Total [g,h,i]		
	Prices in dollars per million Btu											
1970	0.48	1.17	1.14	1.42	0.73	2.92	0.42	0.68	0.40	0.80	7.80	1.98
1975	1.36	1.97	2.48	2.99	2.51	4.80	1.90	2.19	0.79	2.11	16.57	5.40
1980	1.67	4.17	6.48	5.54	5.68	10.26	4.18	5.09	2.02	4.68	23.21	9.22
1985	1.92	5.95	6.79	11.66	8.92	8.79	4.64	5.90	2.29	5.83	30.86	13.48
1990	1.76	5.43	6.54	10.14	6.83	8.83	3.75	5.23	2.80	5.27	29.48	12.84
1995	1.67	5.91	5.07	10.02	5.38	9.60	3.34	4.43	2.01	5.18	33.64	14.54
2000	1.60	7.53	7.96	12.41	9.44	12.30	4.60	6.97	3.05	7.26	35.46	15.83
2005	2.08	11.50	13.61	17.51	15.92	18.15	7.57	11.64	4.55	11.38	42.08	22.34
2006	2.88	11.65	15.59	19.40	19.27	20.79	8.79	13.51	4.89	12.14	45.46	24.79
2007	2.76	11.54	17.16	21.15	21.47	22.54	9.82	14.64	5.52	12.41	46.65	24.77
2008	4.49	12.59	23.58	25.52	27.06	26.79	13.27	20.00	6.72	14.72	49.22	27.67
2009	5.80	10.49	15.03	20.59	20.83	19.41	9.94	13.31	3.74	11.31	45.36	24.18
2010	5.91	10.63	18.51	23.59	23.77	22.98	12.90	16.49	4.27	12.21	47.79	26.06
2011	5.78	9.08	24.75	26.90	28.13	29.16	17.41	22.05	5.13	12.57	46.33	25.59
2012	—	7.60	25.80	21.33	29.62	30.20	18.36	23.17	3.40	11.05	44.13	24.71
2013	—	7.73	25.05	21.01	29.68	29.43	16.84	22.78	3.46	R 10.71	45.00	24.27
2014	—	8.04	21.81	22.22	29.84	28.37	14.75	21.39	R 3.62	10.04	47.25	24.76
2015	—	6.64	14.51	13.40	16.65	20.47	7.83	15.41	R 3.46	R 8.31	44.86	R 22.59
2016	—	6.00	11.47	12.60	13.27	18.13	6.10	12.89	R 2.57	R 7.21	42.35	R 21.25
2017	—	6.65	13.66	16.48	16.60	20.12	7.80	15.24	R 2.64	8.10	43.23	R 21.86
2018	—	7.13	17.09	17.93	23.47	22.23	10.26	18.22	R 2.96	8.94	42.50	R 21.82
2019	—	6.98	15.74	14.29	22.39	20.97	9.78	16.66	R 3.27	8.64	41.20	R 21.09
2020	—	6.66	10.61	13.52	14.54	17.86	7.72	12.84	R 2.55	7.64	42.67	R 21.29
2021	—	7.66	17.03	20.71	22.93	23.87	11.49	R 18.87	R 2.82	R 9.79	47.11	R 23.92
2022	—	9.99	30.23	21.98	37.92	31.56	18.59	R 29.35	R 2.22	R 13.47	53.31	R 28.39
2023	—	9.34	23.17	17.79	33.68	28.14	16.81	23.52	2.26	11.75	52.80	27.34
	Expenditures in million dollars											
1970	3.3	166.0	135.5	4.0	2.6	16.1	113.8	272.0	(s)	441.3	872.8	1,314.1
1975	9.2	256.7	273.8	9.2	6.0	29.3	340.7	659.0	0.1	925.0	2,139.2	3,064.2
1980	11.0	690.4	546.7	13.9	5.4	55.7	668.1	1,289.9	1.2	1,992.5	3,205.2	5,197.8
1985	15.5	1,010.8	523.0	37.6	43.6	88.3	486.6	1,179.1	1.2	2,206.5	5,139.5	7,346.0
1990	9.5	1,089.6	587.1	41.3	10.4	55.7	410.4	1,105.0	7.2	2,211.3	5,636.2	7,847.5
1995	8.0	1,410.1	463.2	45.2	21.8	10.4	284.8	825.4	11.2	2,254.7	7,174.9	9,429.5
2000	3.7	2,842.9	701.1	77.0	50.8	12.9	272.7	1,114.4	30.7	3,991.7	8,520.6	12,512.2
2005	7.7	3,253.5	1,432.2	74.5	68.5	22.1	478.8	2,076.1	31.0	5,368.3	11,030.7	16,399.1
2006	9.1	3,096.3	1,411.4	85.3	38.7	30.6	438.8	2,004.8	32.0	5,142.1	11,793.0	16,935.1
2007	8.2	3,369.1	1,449.5	103.7	29.8	30.5	538.4	2,151.8	37.9	5,566.9	11,829.3	17,396.2
2008	7.7	3,731.3	1,832.6	160.8	19.7	28.5	641.2	2,682.8	48.4	6,470.1	12,999.9	19,470.0
2009	3.2	3,009.8	1,047.4	136.4	20.0	20.9	535.3	1,760.1	13.3	4,786.4	11,660.2	16,446.5
2010	0.5	3,126.8	1,074.2	155.7	20.8	21.0	635.6	1,907.2	15.6	5,050.0	12,601.1	17,651.1
2011	0.6	2,713.2	1,472.1	185.7	26.8	27.5	776.0	2,488.0	17.4	5,219.3	12,079.4	17,298.7
2012	—	2,118.6	1,280.1	127.6	10.0	26.6	489.1	1,933.5	21.2	4,073.3	11,445.5	15,518.8
2013	—	2,406.2	R 1,332.9	136.7	4.7	28.2	332.3	R 1,834.8	22.4	R 4,263.3	11,721.7	R 15,985.0
2014	—	2,660.6	R 1,060.8	151.6	9.1	27.7	78.5	R 1,327.6	R 23.3	R 4,011.5	12,340.8	R 16,352.3
2015	—	2,134.9	R 806.0	97.4	2.6	321.2	15.3	R 1,242.4	R 26.9	R 3,404.2	11,785.7	R 15,190.0
2016	—	1,872.9	R 535.5	99.7	4.3	282.3	12.0	R 933.8	R 19.6	R 2,826.3	11,054.2	R 13,880.5
2017	—	2,131.9	R 625.1	128.1	2.9	312.1	14.0	R 1,082.1	R 20.6	R 3,234.5	11,111.3	R 14,345.8
2018	—	2,430.4	R 797.9	145.9	5.5	344.4	10.1	R 1,303.7	R 22.9	R 3,757.0	11,128.0	R 14,885.0
2019	—	2,327.2	R 757.8	120.7	9.4	327.2	7.2	R 1,222.3	R 23.5	R 3,573.0	10,556.7	R 14,129.7
2020	—	1,987.7	393.0	128.4	4.4	280.8	4.3	810.9	R 17.6	R 2,816.3	10,044.9	R 12,861.1
2021	—	2,355.6	R 845.3	217.3	5.5	379.1	13.6	R 1,460.9	R 19.6	R 3,836.0	11,238.3	R 15,074.4
2022	—	R 3,133.2	R 1,506.6	223.8	8.2	608.9	22.6	R 2,370.1	R 37.8	R 5,541.1	13,133.0	R 18,674.1
2023	—	2,851.6	1,125.4	173.9	12.9	459.6	16.9	1,788.8	37.7	4,678.1	12,866.3	17,544.4

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[g] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[j] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: Expenditure totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2023, New York

	Primary energy													
	Coal				Petroleum						Biomass			
	Coking coal	Steam coal	Total	Natural gas [a]	Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e,f]	Total [f,g,h]	Electricity [i]	Total energy [f,g,h]
Year	Prices in dollars per million Btu													
1970	0.58	0.48	0.53	0.68	0.70	1.50	2.92	0.49	1.33	0.81	1.49	0.69	3.51	0.97
1975	2.14	1.36	1.82	1.47	2.36	3.25	4.80	2.01	2.67	2.35	1.49	2.04	7.97	2.85
1980	2.38	1.67	2.08	3.43	5.36	6.03	10.26	3.78	6.05	5.12	1.45	3.76	12.11	5.27
1985	1.88	1.92	1.91	5.13	6.14	13.09	8.79	4.64	6.27	6.13	1.45	4.61	15.34	6.90
1990	1.71	1.76	1.74	4.72	6.78	11.29	8.83	3.75	5.29	5.54	1.02	4.10	16.95	7.33
1995	1.72	1.67	1.69	4.55	4.84	8.97	9.60	3.34	5.33	5.35	1.36	4.17	16.97	6.39
2000	1.66	1.60	1.63	5.95	7.60	13.11	12.30	4.60	6.35	7.08	1.41	5.12	15.75	7.52
2005	2.96	2.08	2.27	10.48	13.73	19.32	18.15	7.57	7.37	9.92	2.65	8.69	24.11	11.79
2006	3.26	2.88	2.97	10.33	15.84	21.47	20.79	8.79	8.85	11.60	2.59	9.64	27.53	12.58
2007	3.43	2.76	2.91	11.16	17.32	25.10	22.54	9.82	10.06	12.96	2.45	10.57	25.53	13.86
2008	4.32	3.18	3.44	12.04	23.77	30.16	26.79	13.27	11.16	15.06	2.69	12.09	27.53	14.80
2009	5.03	3.77	4.01	9.32	14.37	24.91	19.41	9.94	11.43	12.73	2.54	10.26	24.54	12.83
2010	5.39	4.22	4.44	8.35	19.17	24.66	22.98	12.90	R 16.67	R 17.89	2.55	R 12.00	25.76	R 14.53
2011	6.50	4.29	4.74	7.97	23.61	28.47	29.16	17.41	R 18.02	R 20.18	2.42	R 12.71	22.96	R 14.55
2012	5.87	4.44	4.73	6.70	24.89	21.95	30.20	18.36	R 17.77	R 20.64	2.34	R 12.42	19.62	R 13.76
2013	5.27	4.13	4.37	7.19	24.20	21.57	29.43	16.84	R 19.48	R 21.42	2.39	R 12.80	19.30	R 14.30
2014	4.30	4.22	4.24	7.87	22.79	22.99	28.37	14.75	R 20.57	R 21.71	2.82	R 13.05	19.28	R 14.50
2015	3.83	4.07	4.02	6.41	15.05	12.65	20.47	7.83	R 17.69	R 17.30	2.67	R 10.72	18.49	R 12.50
2016	3.40	3.66	3.60	5.74	11.28	11.71	18.13	6.10	R 13.69	R 13.76	2.44	R 9.09	17.67	R 11.06
2017	3.75	4.19	4.08	6.98	14.71	15.65	20.12	7.80	14.76	15.37	2.18	10.16	17.36	11.85
2018	4.05	4.62	4.48	7.58	17.33	17.08	22.23	10.26	17.44	18.00	2.24	11.49	17.64	12.92
2019	—	3.42	3.42	7.46	14.67	13.42	20.97	9.78	R 17.97	R 17.57	2.42	R 11.33	16.45	12.50
2020	—	3.67	3.67	6.77	10.47	12.64	17.86	7.72	R 16.76	R 15.67	2.13	R 10.39	16.25	R 11.74
2021	—	3.36	3.36	8.12	14.39	19.77	23.87	11.49	R 18.66	R 18.76	2.42	R 12.43	18.59	R 13.81
2022	—	3.65	3.65	R 10.54	27.52	20.98	31.56	18.59	R 26.30	R 26.86	R 2.64	R 16.95	22.13	R 18.11
2023	—	4.10	4.10	10.08	23.13	16.76	28.14	16.81	20.73	22.04	2.75	15.03	20.13	16.11
	Expenditures in million dollars													
1970	96.4	68.1	164.5	80.0	68.8	5.6	50.3	103.2	93.4	321.4	10.1	575.9	322.1	898.0
1975	197.8	85.5	283.3	156.0	216.9	11.4	34.1	276.6	197.5	736.4	9.4	1,185.2	734.6	1,919.8
1980	197.6	106.6	304.2	398.4	289.8	43.8	82.7	337.3	384.4	1,138.0	11.9	1,852.5	1,318.1	3,170.6
1985	58.5	122.3	180.8	526.2	192.4	43.9	56.6	162.0	492.3	947.2	13.9	1,668.0	1,500.4	3,168.5
1990	62.2	80.7	142.9	473.7	160.0	23.6	53.1	94.1	346.3	677.1	14.1	1,307.8	1,815.7	3,123.5
1995	63.8	59.0	122.8	1,001.1	86.5	27.4	56.2	41.8	371.3	583.2	15.5	1,722.6	1,466.0	3,188.6
2000	51.1	68.6	119.7	592.6	145.2	103.5	59.5	58.0	449.1	815.3	19.8	1,547.4	1,388.6	2,936.0
2005	25.8	64.7	90.5	868.1	269.3	160.3	208.6	63.6	658.1	1,359.9	27.0	2,345.6	1,640.6	3,986.2
2006	27.2	82.9	110.1	821.9	318.4	128.8	261.6	71.9	762.4	1,543.0	25.8	2,500.7	1,406.6	3,907.3
2007	26.8	73.8	100.6	883.2	363.2	105.8	250.8	90.2	767.2	1,577.2	22.1	2,583.1	1,761.0	4,344.1
2008	31.2	77.5	108.7	983.6	468.5	76.5	231.3	104.1	851.9	1,732.2	18.4	2,842.9	1,379.4	4,222.3
2009	22.3	72.3	94.6	687.0	243.3	48.1	161.5	30.3	864.2	1,347.4	14.6	2,143.6	1,123.3	3,266.8
2010	26.6	86.5	113.1	645.3	251.7	57.8	272.0	41.7	R 1,053.3	R 1,676.6	20.8	R 2,455.8	1,184.7	R 3,640.5
2011	34.2	88.4	122.7	614.8	382.7	78.5	230.9	136.2	R 1,069.5	R 1,897.8	30.5	R 2,665.8	1,051.4	R 3,717.2
2012	28.8	85.5	114.3	513.0	359.2	76.2	346.4	66.7	R 1,036.6	R 1,885.1	29.7	R 2,542.1	917.7	R 3,459.8
2013	23.8	70.4	94.2	593.5	317.1	72.5	337.4	75.3	R 1,088.1	R 1,890.5	26.8	R 2,605.0	1,179.4	R 3,784.4
2014	15.3	64.0	79.3	685.0	262.8	83.9	300.4	51.2	R 1,140.7	R 1,839.0	32.4	R 2,635.8	1,184.3	R 3,820.0
2015	16.7	60.7	77.4	549.8	176.1	39.7	281.4	21.2	R 1,042.8	R 1,561.1	31.7	R 2,220.1	1,140.6	R 3,360.7
2016	11.1	39.5	50.6	478.6	121.6	39.0	249.8	17.5	R 861.2	R 1,289.2	29.5	R 1,847.9	1,067.8	R 2,915.7
2017	12.0	42.2	54.2	597.3	161.3	36.5	281.8	26.4	835.3	1,341.4	27.6	2,020.6	1,055.3	3,075.9
2018	9.8	33.8	43.6	715.9	195.0	43.6	316.2	26.2	962.5	1,543.4	29.3	2,332.3	1,087.8	3,420.1
2019	—	30.4	30.4	695.5	214.9	33.4	299.8	22.1	R 969.2	R 1,539.5	31.0	R 2,296.4	985.0	R 3,281.4
2020	—	14.8	14.8	604.8	140.4	36.9	258.0	9.4	R 875.5	R 1,320.2	24.7	R 1,964.5	921.0	R 2,885.5
2021	—	18.0	18.0	751.9	169.1	73.9	344.6	32.1	R 1,054.9	R 1,674.6	28.5	R 2,473.0	1,071.6	R 3,544.7
2022	—	22.4	22.4	R 968.0	327.0	93.8	470.0	53.2	R 1,307.5	R 2,251.5	R 29.5	R 3,271.4	1,221.5	R 4,492.9
2023	—	19.8	19.8	881.1	268.3	60.1	425.2	39.9	1,161.0	1,954.5	30.5	2,885.9	1,042.2	3,928.1

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[i] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET6. Transportation sector energy price and expenditure estimates, selected years, 1970-2023, New York

Year	Primary energy											Electricity [g]	Total energy [f]
			Petroleum										
	Coal	Natural gas[a]	Aviation gasoline	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Lubricants	Motor gasoline [e]	Residual fuel oil	Total	Total [f]		
	Prices in dollars per million Btu												
1970	0.48	—	2.17	1.44	1.42	0.72	5.08	2.92	0.37	2.12	2.12	4.82	2.14
1975	1.36	—	3.45	2.84	2.99	2.01	7.48	4.80	1.67	3.95	3.95	13.66	4.02
1980	—	—	9.02	7.45	5.54	6.27	14.36	10.26	3.53	8.82	8.82	15.02	8.87
1985	—	—	9.99	8.48	12.52	6.51	18.18	8.79	4.08	8.74	8.74	19.65	8.85
1990	—	4.56	9.32	8.99	11.16	6.03	20.61	8.83	3.13	8.79	8.79	21.66	8.93
1995	—	2.06	8.36	9.02	10.58	4.04	21.75	9.60	2.66	9.21	9.21	24.79	9.37
2000	—	5.66	10.87	11.33	14.56	6.90	23.20	12.30	4.10	11.48	11.47	23.90	11.60
2005	—	11.23	18.56	17.48	17.93	13.10	35.22	18.15	6.78	17.18	17.17	33.40	17.32
2006	—	12.82	22.31	19.78	20.11	14.89	43.88	20.79	7.81	19.59	19.57	34.98	19.71
2007	—	13.13	23.70	20.65	22.21	16.46	47.16	22.54	7.85	21.08	21.06	32.14	21.18
2008	—	18.15	27.23	28.28	25.94	23.13	55.12	26.79	12.08	25.81	25.78	37.05	25.89
2009	—	11.62	20.32	18.27	20.48	12.64	56.07	19.41	8.24	17.96	17.94	38.49	18.15
2010	—	8.13	25.19	22.32	24.32	16.43	58.80	22.98	10.86	20.98	20.94	40.28	21.10
2011	—	9.56	31.64	28.52	27.58	22.77	69.54	29.16	14.81	27.47	27.41	39.41	27.52
2012	—	20.34	33.04	29.45	21.98	23.16	72.11	30.20	15.40	28.29	R 28.26	41.63	28.38
2013	—	R 19.93	32.71	28.83	21.66	22.15	69.42	29.43	15.52	27.35	27.32	40.01	27.44
2014	—	R 19.73	33.16	28.66	22.88	20.61	69.44	28.37	13.19	R 26.20	26.18	40.49	R 26.31
2015	—	R 18.91	24.86	21.04	14.01	11.99	67.28	20.47	7.46	18.38	R 18.38	37.97	R 18.55
2016	—	R 18.60	21.62	17.54	13.20	9.49	65.78	18.13	5.60	15.80	R 15.81	35.33	R 15.97
2017	—	R 20.20	24.13	20.31	17.27	12.21	67.25	20.12	7.55	18.10	R 18.11	37.12	R 18.26
2018	—	R 20.92	27.04	24.18	18.62	16.00	72.37	22.23	9.99	21.03	21.03	35.57	R 21.16
2019	—	R 21.01	25.57	23.50	14.91	14.77	74.92	20.97	10.00	19.93	R 19.93	36.00	R 20.07
2020	—	R 21.27	22.34	20.20	13.85	10.04	75.34	17.86	7.29	R 17.19	R 17.20	35.57	R 17.38
2021	—	R 21.59	28.86	24.66	21.13	14.70	81.25	23.87	10.97	22.41	R 22.41	37.13	22.53
2022	—	R 25.27	36.02	38.47	21.16	27.35	97.37	31.56	18.65	R 32.08	R 32.07	40.55	R 32.14
2023	—	27.50	32.62	32.64	17.17	21.69	105.48	28.14	15.02	27.49	27.49	46.00	27.64
	Expenditures in million dollars												
1970	0.2	—	2.7	89.5	0.6	155.5	36.9	1,939.4	43.0	2,267.6	2,267.8	38.9	2,306.7
1975	(s)	—	4.8	173.7	1.4	423.1	43.1	3,304.6	93.0	4,043.7	4,043.8	95.9	4,139.6
1980	—	—	14.6	447.5	1.7	1,274.5	92.7	6,727.2	251.7	8,809.9	8,809.9	110.0	8,919.9
1985	—	—	11.1	678.8	7.1	139.0	106.8	6,153.6	22.7	7,119.1	7,119.1	163.7	7,282.9
1990	—	(s)	3.6	1,136.0	6.4	183.5	136.2	6,347.5	26.7	7,840.0	7,840.1	206.6	8,046.6
1995	—	0.5	3.2	1,119.4	5.6	176.4	137.1	6,555.8	38.8	8,036.4	8,036.9	233.2	8,270.1
2000	—	4.8	4.1	1,519.1	13.1	372.1	156.2	8,424.2	209.6	10,698.4	10,703.2	224.5	10,927.7
2005	—	28.0	25.8	2,903.1	5.2	1,486.3	200.1	12,714.6	242.4	17,577.4	17,605.4	324.3	17,929.7
2006	—	36.2	2.9	3,372.7	7.7	1,717.2	242.8	14,803.9	320.8	20,468.0	20,504.1	335.0	20,839.1
2007	—	37.1	22.2	3,480.8	4.7	1,864.3	269.5	15,847.8	348.7	21,838.1	21,875.2	372.5	22,247.7
2008	—	62.8	21.1	4,493.4	25.6	2,839.8	292.5	18,355.7	785.0	26,813.2	26,876.0	368.9	27,244.9
2009	—	36.8	3.1	R 2,920.6	7.6	1,200.9	267.5	13,247.2	608.3	R 18,255.2	R 18,292.0	397.2	R 18,689.2
2010	—	29.9	5.0	R 3,641.1	2.7	3,783.3	344.4	15,786.6	825.5	R 24,388.5	R 24,418.4	401.5	R 24,819.9
2011	—	37.9	6.9	R 4,694.5	2.9	5,272.2	362.6	19,042.5	480.3	R 29,861.9	R 29,899.8	400.9	R 30,300.7
2012	—	80.9	6.9	R 4,685.3	2.3	5,400.1	343.3	19,177.1	482.9	R 30,097.9	R 30,178.8	390.3	R 30,569.1
2013	—	R 68.4	6.1	R 4,382.4	3.1	5,484.0	346.3	18,617.5	614.7	R 29,454.0	R 29,522.3	391.0	R 29,913.4
2014	—	R 75.0	11.4	R 4,631.1	3.6	5,233.1	384.2	18,605.6	644.4	R 29,513.4	R 29,588.3	394.2	R 29,982.5
2015	—	R 66.2	9.3	R 3,555.6	2.7	3,199.9	375.2	12,845.6	229.6	R 20,218.0	R 20,284.1	364.8	R 20,648.9
2016	—	R 73.4	8.0	R 3,170.6	3.0	2,680.6	354.4	11,821.1	174.7	R 18,212.3	R 18,285.7	332.2	R 18,617.9
2017	—	R 21.2	9.5	R 3,699.8	8.7	3,576.3	332.5	13,273.4	177.5	R 21,077.7	R 21,098.8	350.4	R 21,449.3
2018	—	R 20.7	11.2	R 4,698.0	5.1	R 4,550.1	348.8	14,819.1	207.0	R 24,639.3	R 24,660.1	358.6	R 25,018.7
2019	—	R 21.0	11.2	R 4,263.3	3.9	R 4,252.0	R 329.8	13,770.7	90.0	R 22,720.9	R 22,742.0	346.4	R 23,088.4
2020	—	R 20.3	8.3	R 3,403.5	2.5	R 1,349.1	R 282.5	9,625.3	88.0	R 14,759.1	R 14,779.4	309.5	R 15,088.9
2021	—	R 25.2	11.7	R 4,741.6	3.3	R 2,563.5	R 341.7	14,242.6	199.5	R 22,103.9	R 22,129.1	311.1	R 22,440.2
2022	—	R 61.2	15.1	R 8,362.3	5.9	R 6,570.1	R 450.1	18,355.6	347.7	R 34,106.9	R 34,168.1	359.7	R 34,527.8
2023	—	27.0	13.0	6,976.9	5.4	5,851.1	357.7	16,845.3	232.4	30,281.9	30,308.9	425.8	30,734.7

[a] Transportation use of natural gas as vehicle fuel only.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET7. Electric power sector price and expenditure estimates, selected years, 1970-2023, New York

Year	Coal	Natural gas [a]	Petroleum: Distillate fuel oil	Petroleum: Petroleum coke	Petroleum: Residual fuel oil	Petroleum: Total	Nuclear fuel	Biomass: Wood and waste [b]	Electricity imports [c]	Total energy [d]
	Prices in dollars per million Btu									
1970	0.47	0.38	0.44	—	0.42	0.42	0.20	—	1.92	0.44
1975	1.18	0.88	2.16	—	1.94	1.95	0.31	—	3.89	1.56
1980	1.47	2.67	5.63	—	4.25	4.26	0.56	1.74	6.94	2.80
1985	1.72	3.48	6.11	—	4.26	4.29	0.67	—	9.34	2.98
1990	1.61	2.38	6.34	—	3.60	3.65	0.65	0.46	8.37	2.23
1995	1.41	2.08	4.41	—	2.64	2.83	0.54	2.21	6.21	1.73
2000	1.49	4.60	8.39	0.74	4.28	4.60	0.48	0.67	16.78	3.04
2005	2.12	9.05	11.18	1.21	6.75	6.62	0.44	2.28	16.53	4.50
2006	2.37	7.60	12.68	1.41	7.58	7.41	0.49	2.32	17.32	4.24
2007	2.39	7.92	12.63	1.88	7.49	7.78	0.46	2.42	18.25	4.55
2008	2.57	10.64	24.53	2.01	12.34	13.28	0.48	2.66	18.28	5.66
2009	2.68	5.16	12.70	1.72	8.14	8.46	0.56	2.20	12.10	3.12
2010	3.02	5.62	15.96	1.54	12.01	10.02	0.64	2.40	13.31	3.51
2011	3.27	5.44	22.47	4.01	17.78	15.24	0.68	2.44	11.53	3.51
2012	3.12	3.84	23.56	—	18.88	20.93	0.74	2.21	9.51	2.93
2013	3.02	5.11	24.43	—	18.52	20.55	0.80	2.26	11.49	3.58
2014	3.03	5.27	23.67	—	14.98	17.20	0.76	2.73	13.31	3.85
2015	2.83	3.41	14.70	—	8.18	10.02	0.72	2.62	10.54	2.72
2016	2.37	2.68	10.23	—	7.24	8.24	0.69	2.54	8.74	2.23
2017	2.35	3.36	13.96	—	9.07	10.41	0.74	2.40	9.18	2.48
2018	2.60	3.76	15.58	—	11.52	12.78	0.71	2.22	10.74	2.83
2019	2.28	2.96	14.06	—	11.76	12.89	0.67	2.33	9.20	2.22
2020	2.09	2.12	9.49	—	8.67	9.03	0.64	1.80	8.38	1.85
2021	—	3.93	15.06	—	12.99	13.38	0.64	2.39	12.82	3.26
2022	—	R 7.18	25.10	—	18.58	21.01	0.63	2.69	19.84	R 5.90
2023	—	2.93	19.74	—	18.17	18.56	0.64	2.93	18.72	2.70
	Expenditures in million dollars									
1970	127.6	40.9	8.1	—	149.6	157.7	9.2	—	20.8	356.1
1975	173.3	12.2	66.6	—	1,029.8	1,096.4	44.9	—	45.9	1,372.8
1980	233.8	343.4	24.5	—	1,706.9	1,731.5	118.3	0.2	182.7	2,610.0
1985	337.5	622.1	29.2	—	1,156.5	1,185.7	172.1	—	569.5	2,886.9
1990	420.0	564.0	40.4	—	1,218.0	1,258.4	163.2	13.2	108.6	2,527.4
1995	321.0	916.0	41.8	—	203.5	245.2	150.7	85.4	190.8	1,909.1
2000	379.8	1,747.1	114.8	1.2	613.2	729.2	159.0	27.6	610.6	3,653.4
2005	452.2	2,809.5	102.4	15.6	1,488.0	1,606.0	197.0	62.2	604.6	5,731.6
2006	510.5	3,007.3	45.7	6.9	464.9	517.5	215.9	64.4	738.3	5,054.1
2007	527.8	3,302.8	100.2	5.3	552.2	657.8	205.5	66.6	894.4	5,654.9
2008	502.3	4,333.3	114.7	4.2	382.8	501.7	215.0	78.7	1,040.1	6,671.1
2009	353.5	1,937.5	54.0	2.9	166.9	223.8	255.7	69.4	464.8	3,304.8
2010	427.4	2,438.0	58.7	8.1	135.2	202.0	282.2	74.9	425.6	3,850.0
2011	324.3	2,413.2	42.9	10.8	114.6	168.3	305.5	70.9	475.6	3,757.7
2012	151.9	1,971.3	53.3	—	54.5	107.8	318.3	59.0	548.2	3,156.5
2013	142.3	2,397.7	70.8	—	102.7	173.5	375.3	67.2	733.1	3,889.1
2014	139.1	2,454.2	113.6	—	209.9	323.5	342.1	88.3	778.0	4,125.1
2015	62.1	1,655.3	70.8	—	99.9	170.6	333.9	78.3	639.8	2,940.0
2016	37.1	1,303.9	20.3	—	28.4	48.7	299.0	78.7	537.6	2,304.9
2017	14.7	1,333.8	21.2	—	36.6	57.8	324.6	77.0	516.9	2,324.9
2018	18.1	1,608.0	70.9	—	117.0	187.9	319.8	66.7	575.0	2,775.5
2019	10.8	1,154.6	30.9	—	26.7	57.6	313.1	63.7	511.3	2,111.1
2020	3.4	927.2	9.8	—	11.6	21.4	255.4	48.9	457.5	1,713.8
2021	—	1,811.8	18.1	—	69.1	87.1	208.3	63.4	676.9	2,847.5
2022	—	R 3,523.4	153.2	—	190.9	344.1	R 177.1	41.6	928.2	R 5,014.4
2023	—	1,425.6	18.2	—	50.5	68.8	185.2	34.9	485.4	2,199.9

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[c] Electricity imported from Canada and Mexico.
[d] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET1. Primary energy, electricity, and total energy price and expenditure estimates, selected years, 1970-2023, North Carolina

Year	Primary energy														Electric power sector [i,k,l]	Electricity [m]	Total energy [h,i,j]
	Coal				Petroleum								Biomass				
	Coking coal	Steam coal	Total	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Nuclear fuel	Wood and waste [g,h]	Total [h,i,j,k]			
	Prices in dollars per million Btu																
1970	—	0.43	0.43	0.69	1.13	1.82	0.73	2.82	0.46	1.36	1.94	—	1.25	1.20	0.41	4.17	2.01
1975	—	1.12	1.12	1.57	2.74	3.24	2.03	4.55	1.90	2.91	3.69	0.29	1.55	2.45	1.05	7.92	4.08
1980	—	1.58	1.58	3.55	6.80	6.11	6.46	9.91	3.72	7.05	8.16	0.36	2.36	4.59	1.48	11.72	7.92
1985	—	1.97	1.97	5.29	7.35	10.02	5.77	9.03	4.45	7.48	8.12	0.54	2.56	4.73	1.57	17.46	9.35
1990	—	1.78	1.78	4.19	7.88	10.50	5.65	9.44	3.11	6.82	8.50	0.54	1.17	4.48	1.35	18.73	9.66
1995	—	1.64	1.64	4.53	6.80	9.53	3.90	8.91	2.79	6.15	7.76	0.51	1.30	4.03	1.21	19.28	9.47
2000	—	1.44	1.44	6.69	9.75	13.52	6.50	11.71	4.24	7.85	10.59	0.30	1.61	5.20	1.09	18.99	11.51
2005	—	2.41	2.41	12.20	16.48	19.18	12.36	18.23	6.71	11.37	16.75	0.41	3.10	8.50	1.91	21.07	16.51
2006	—	2.70	2.70	12.36	18.55	21.06	14.51	20.53	8.04	14.60	19.19	0.43	3.05	9.49	2.05	22.08	18.16
2007	—	2.75	2.75	11.29	19.75	23.32	15.59	22.44	9.43	15.29	20.81	0.41	3.17	9.93	2.17	22.96	19.41
2008	—	3.28	3.28	13.23	26.80	27.99	22.80	26.55	13.15	20.14	25.89	0.43	3.51	12.15	2.56	23.34	22.11
2009	—	3.62	3.62	10.43	17.16	23.09	12.12	19.01	9.37	19.89	18.58	0.50	3.22	9.29	2.57	24.84	18.53
2010	—	3.54	3.54	9.12	20.85	25.51	16.18	22.65	12.09	R 24.86	R 21.89	0.53	3.31	R 10.44	2.68	25.40	R 20.17
2011	—	3.65	3.65	8.38	27.01	29.38	22.68	28.75	15.76	R 30.68	R 27.90	0.58	3.51	R 12.80	2.68	25.34	R 23.31
2012	—	3.79	3.79	6.69	27.86	24.14	22.96	29.43	18.01	R 28.37	R 28.22	0.59	3.32	R 12.80	2.66	26.82	R 23.74
2013	—	3.81	3.81	6.98	27.57	25.19	22.30	28.74	18.67	R 29.63	R 27.80	0.65	3.47	R 12.71	2.84	27.08	R 23.38
2014	—	3.60	3.60	7.69	26.69	27.53	20.96	27.68	16.80	R 29.63	R 26.92	0.66	3.96	R 12.53	3.01	27.35	R 23.12
2015	—	3.51	3.51	6.18	18.53	19.37	12.24	19.70	9.14	R 27.18	R 19.10	0.63	3.33	R 9.51	2.68	27.47	R 19.02
2016	—	3.14	3.14	5.30	15.64	18.39	10.04	17.97	6.88	R 20.74	R 16.93	0.63	R 3.15	R 8.51	2.29	26.96	R 17.65
2017	—	3.01	3.01	6.01	17.98	21.81	11.64	20.00	9.18	20.34	18.86	0.67	3.07	9.55	2.33	26.50	18.69
2018	—	3.18	3.18	5.99	21.34	24.13	15.50	21.76	10.10	23.51	21.26	0.62	R 2.96	10.56	2.58	27.12	R 20.10
2019	—	2.85	2.85	5.64	20.51	21.38	14.29	20.28	9.60	R 25.37	20.01	0.60	2.90	10.01	2.15	27.70	19.57
2020	—	2.60	2.60	R 5.32	17.04	19.09	9.65	17.06	7.54	R 25.24	16.89	0.60	R 2.31	8.50	1.89	27.63	R 17.80
2021	—	2.73	2.73	6.31	R 21.88	25.83	14.39	23.77	11.07	R 27.20	22.74	0.80	R 3.01	11.36	2.51	27.24	20.97
2022	—	3.70	3.70	R 8.92	R 34.21	28.09	25.17	30.52	17.36	R 35.38	R 30.93	0.56	R 3.54	15.62	R 4.03	28.14	26.13
2023	—	4.78	4.78	7.17	29.06	25.13	20.29	27.50	14.96	33.05	27.23	0.55	3.65	13.98	3.15	31.10	24.97
	Expenditures in million dollars																
1970	—	211.6	211.6	102.8	149.3	37.7	18.7	835.7	19.7	137.5	1,198.5	—	18.9	1,531.8	-190.7	576.2	1,917.3
1975	—	533.0	533.0	178.1	339.0	76.6	42.3	1,599.1	92.9	196.2	2,346.1	4.4	23.5	3,085.1	-473.6	1,393.1	4,004.7
1980	—	985.0	985.0	529.3	955.5	178.5	185.3	3,448.9	211.1	387.2	5,366.5	22.9	46.3	6,950.0	-967.2	2,553.8	8,536.7
1985	—	1,084.0	1,084.0	705.5	1,125.3	275.4	213.6	3,362.8	174.3	491.7	5,643.2	109.8	60.1	7,609.7	-1,095.2	4,305.3	10,819.8
1990	—	1,012.9	1,012.9	657.5	1,201.5	333.1	174.2	3,845.9	99.6	375.7	6,029.9	149.0	71.0	7,920.5	-1,042.4	5,715.0	12,593.0
1995	—	1,085.5	1,085.5	931.4	1,241.8	425.7	109.3	4,009.0	109.9	436.0	6,331.7	193.6	109.7	8,651.9	-1,193.2	6,884.9	14,343.6
2000	—	1,129.5	1,129.5	1,560.1	2,054.3	699.2	268.1	5,960.1	132.5	518.3	9,632.4	123.9	130.2	12,576.1	-1,277.9	7,767.1	19,065.2
2005	—	1,952.9	1,952.9	2,844.3	3,493.5	938.5	516.0	10,013.3	234.7	707.3	15,903.3	169.5	220.0	21,090.1	-2,347.7	9,224.0	27,966.3
2006	—	2,101.2	2,101.2	2,785.6	3,842.5	1,011.9	438.0	11,332.7	213.5	838.5	17,676.9	177.3	250.1	22,991.3	-2,455.1	9,544.2	30,080.3
2007	—	2,281.0	2,281.0	2,701.8	4,053.5	1,034.9	633.1	12,445.5	222.7	867.6	19,257.3	170.2	207.3	24,617.6	-2,747.6	10,332.0	32,202.0
2008	—	2,606.1	2,606.1	3,230.2	4,738.6	1,382.0	675.5	15,476.4	299.0	935.9	23,507.4	179.5	329.8	29,853.1	-3,135.4	10,358.7	37,076.4
2009	—	2,456.7	2,456.7	2,551.4	R 3,082.0	1,046.7	127.4	10,320.0	163.7	713.2	R 15,453.0	213.3	219.0	R 20,893.4	-2,913.0	10,821.0	R 28,801.4
2010	—	2,651.9	2,651.9	2,742.5	R 3,854.7	1,248.0	1,141.4	12,308.4	162.6	R 1,188.2	R 19,903.3	224.1	291.6	R 25,813.4	-3,320.6	11,822.8	R 34,315.6
2011	—	2,283.1	2,283.1	2,547.1	R 4,829.1	1,277.8	1,607.7	15,067.5	120.0	R 1,268.5	R 24,170.6	244.2	318.2	R 29,563.1	-3,038.1	11,332.3	R 37,857.3
2012	—	2,025.9	2,025.9	2,423.1	R 4,632.0	896.1	1,676.2	15,121.8	51.8	R 1,308.7	R 23,686.7	242.8	302.6	R 28,681.1	-2,927.7	11,720.6	R 37,474.0
2013	—	1,881.8	1,881.8	3,076.6	R 4,811.6	843.1	1,744.3	15,052.2	23.4	R 1,231.5	R 23,706.1	274.5	327.7	R 29,266.8	-3,172.5	11,991.2	R 38,085.5
2014	—	1,805.0	1,805.0	R 3,522.6	R 4,951.4	1,093.4	1,707.4	14,484.4	18.0	R 1,256.3	R 23,510.9	281.9	R 364.7	R 29,485.1	-3,439.5	12,421.6	R 38,467.2
2015	—	1,421.5	1,421.5	R 3,162.7	R 3,548.7	697.5	995.4	10,789.8	4.9	R 1,108.1	R 17,144.4	279.1	R 298.6	R 22,306.2	-3,021.3	12,547.1	R 31,832.0
2016	—	1,198.4	1,198.4	R 2,851.1	R 2,980.5	559.5	846.2	10,192.4	3.4	R 1,052.9	R 15,634.8	283.5	R 272.6	R 20,240.4	-2,605.5	12,361.6	R 29,996.5
2017	—	1,052.6	1,052.6	R 3,114.0	R 3,416.5	671.8	1,039.3	11,330.0	6.4	1,091.4	R 17,555.4	297.0	R 282.4	R 22,301.6	-2,540.0	11,881.0	R 31,642.6
2018	—	1,034.4	1,034.4	R 3,572.6	R 4,375.7	867.7	R 1,389.8	12,328.0	7.0	1,270.6	R 20,238.8	271.1	R 264.5	R 25,381.4	-2,880.5	12,796.9	R 35,297.8
2019	—	906.2	906.2	R 3,196.7	R 4,135.7	711.9	R 1,330.9	11,736.7	5.9	R 1,127.9	R 19,049.0	260.7	R 258.8	R 23,671.3	-2,316.7	12,892.9	R 34,247.5
2020	—	583.2	583.2	R 2,947.0	R 3,338.2	650.4	R 636.9	8,809.1	13.1	R 911.8	R 14,359.6	263.5	R 206.7	R 18,360.0	-1,868.0	12,293.5	R 28,785.5
2021	—	607.9	607.9	R 4,001.8	R 4,377.6	886.7	R 1,180.6	13,549.7	7.6	R 1,092.1	R 21,094.4	361.7	R 245.1	R 26,310.9	-2,629.8	12,612.2	R 36,293.3
2022	—	603.1	603.1	R 6,610.6	R 6,764.4	982.0	R 2,128.1	18,023.0	12.2	R 1,508.9	R 29,418.7	249.5	R 276.1	R 37,158.0	R -4,384.3	13,363.4	R 46,137.0
2023	—	735.0	735.0	4,723.1	5,576.2	809.7	1,903.1	16,235.1	8.7	1,228.0	25,760.9	244.6	244.2	31,707.8	-3,199.8	14,124.7	42,632.6

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[l] Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
[m] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET2. Total end-use energy price and expenditure estimates, selected years, 1970-2023, North Carolina

Year	Primary energy											Electricity [k]	Total energy [h,i,j]
			Petroleum							Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g,h]	Total [h,i,j]		
	Prices in dollars per million Btu												
1970	0.59	0.75	1.15	1.82	0.73	2.82	0.45	1.36	1.96	1.25	1.65	4.17	2.01
1975	1.56	1.57	2.74	3.24	2.03	4.55	1.90	2.91	3.69	1.55	3.24	7.92	4.08
1980	1.73	3.56	6.83	6.11	6.46	9.91	3.72	7.05	8.17	2.36	6.96	11.72	7.92
1985	1.91	5.29	7.38	10.02	5.77	9.03	4.45	7.48	8.13	2.56	7.16	17.46	9.35
1990	1.81	4.21	7.92	10.50	5.65	9.44	3.11	6.82	8.51	1.19	6.89	18.73	9.66
1995	1.72	4.59	6.85	9.53	3.90	8.91	2.79	6.15	7.78	1.35	6.45	19.28	9.47
2000	1.58	6.83	9.87	13.52	6.50	11.71	4.24	7.85	10.62	1.69	9.06	18.99	11.51
2005	2.51	12.50	16.55	19.18	12.36	18.23	6.71	11.37	16.77	3.20	14.92	21.07	16.51
2006	2.88	13.05	18.61	21.06	14.51	20.53	8.04	14.60	19.20	3.13	16.78	22.08	18.16
2007	2.96	11.98	19.82	23.32	15.59	22.44	9.43	15.29	20.83	3.28	18.09	22.96	19.41
2008	3.65	13.62	26.91	27.99	22.80	26.55	13.15	20.14	25.91	3.59	21.66	23.34	22.11
2009	4.32	10.98	17.24	23.09	12.12	19.01	9.37	19.89	18.60	3.42	16.08	24.84	18.53
2010	4.11	9.98	20.92	25.51	16.18	22.65	12.09	R 24.86	R 21.91	3.47	R 18.20	25.40	R 20.17
2011	4.32	9.45	27.07	29.38	22.68	28.75	15.76	R 30.68	R 27.92	3.72	R 22.54	25.34	R 23.31
2012	4.28	8.36	27.91	24.14	22.96	29.43	18.01	R 28.37	R 28.23	3.59	R 22.56	26.82	R 23.74
2013	4.08	8.68	27.64	25.19	22.30	28.74	18.67	R 29.63	R 27.81	3.76	R 22.00	27.08	R 23.38
2014	4.12	9.05	26.82	27.53	20.96	27.68	16.80	R 29.63	R 26.94	R 4.30	R 21.54	27.35	R 23.12
2015	4.17	8.03	18.66	19.37	12.24	19.70	9.14	R 27.18	R 19.13	3.49	R 15.84	27.47	R 19.02
2016	3.92	7.42	15.72	18.39	10.04	17.97	6.88	R 20.74	R 16.94	R 3.31	R 14.21	26.96	R 17.65
2017	3.73	R 8.49	R 18.05	21.81	11.64	20.00	9.18	20.34	18.88	3.27	15.88	26.50	18.69
2018	3.84	R 8.22	21.49	24.13	15.50	21.76	10.10	23.51	21.29	3.17	R 17.52	27.12	R 20.10
2019	4.14	R 8.18	20.57	21.38	14.29	20.28	9.60	R 25.37	20.02	R 3.06	16.63	27.70	19.57
2020	3.81	R 8.02	17.09	19.09	9.65	17.06	7.54	R 25.24	16.90	R 2.43	14.06	27.63	R 17.80
2021	3.82	R 9.04	R 21.94	25.83	14.39	23.77	11.07	R 27.20	22.76	3.11	18.68	27.24	20.97
2022	5.75	R 11.85	R 34.35	28.09	25.17	30.52	17.36	R 35.38	R 30.95	R 3.66	R 25.40	28.14	26.13
2023	7.22	10.24	29.09	25.13	20.29	27.50	14.96	33.05	27.24	3.78	22.75	31.10	24.97
	Expenditures in million dollars												
1970	37.8	94.7	142.3	37.7	18.7	835.7	17.8	137.5	1,189.7	18.9	1,341.1	576.2	1,917.3
1975	67.9	177.9	337.8	76.6	42.3	1,599.1	90.3	196.2	2,342.3	23.5	2,611.6	1,393.1	4,004.7
1980	65.3	523.8	936.5	178.5	185.3	3,448.9	211.1	387.2	5,347.5	46.3	5,982.9	2,553.8	8,536.7
1985	116.2	702.6	1,110.6	275.4	213.6	3,362.8	174.3	491.7	5,628.5	60.1	6,514.5	4,305.3	10,819.8
1990	141.1	648.5	1,189.8	333.1	174.2	3,845.9	99.6	375.7	6,018.3	70.2	6,878.1	5,715.0	12,593.0
1995	115.8	917.9	1,230.0	425.7	109.3	4,009.0	109.9	436.0	6,319.8	105.1	7,458.6	6,884.9	14,343.6
2000	78.7	1,503.2	2,012.4	699.2	268.1	5,960.1	132.5	518.3	9,590.5	125.7	11,298.2	7,767.1	19,065.2
2005	102.1	2,570.8	3,456.1	938.5	516.0	10,013.3	234.7	707.3	15,865.9	203.5	18,742.4	9,224.0	27,966.3
2006	101.0	2,566.0	3,804.1	1,011.9	438.0	11,332.7	213.5	838.5	17,638.5	230.6	20,536.2	9,544.2	30,080.3
2007	92.4	2,379.0	4,008.2	1,034.9	633.1	12,445.5	222.7	867.6	19,212.0	186.7	21,870.0	10,332.0	32,202.0
2008	126.1	2,830.0	4,684.1	1,382.0	675.5	15,476.4	299.0	935.9	23,452.9	308.7	26,717.7	10,358.7	37,076.4
2009	122.3	2,244.7	R 3,047.7	1,046.7	127.4	10,320.0	163.7	713.2	R 15,418.7	194.7	R 17,980.4	10,821.0	R 28,801.4
2010	115.5	2,264.9	R 3,804.4	1,248.0	1,141.4	12,308.4	162.6	R 1,188.2	R 19,852.9	259.5	R 22,492.8	11,822.8	R 34,315.6
2011	104.3	2,018.2	R 4,780.7	1,277.8	1,607.7	15,067.5	120.0	R 1,268.5	R 24,122.2	280.3	R 26,525.0	11,332.3	R 37,857.3
2012	87.7	1,761.7	R 4,586.4	896.1	1,676.2	15,121.8	51.8	R 1,308.7	R 23,641.1	262.8	R 25,753.4	11,720.6	R 37,474.0
2013	87.6	R 2,064.8	R 4,760.7	843.1	1,744.3	15,052.2	23.4	R 1,231.5	R 23,655.2	286.8	R 26,094.3	11,991.2	R 38,085.5
2014	81.3	R 2,255.3	R 4,839.5	1,093.4	1,707.4	14,484.4	18.0	R 1,256.3	R 23,398.9	R 309.9	R 26,045.5	12,421.6	R 38,467.2
2015	75.9	R 1,869.7	R 3,488.5	697.5	995.4	10,789.8	4.9	R 1,108.1	R 17,084.2	R 255.2	R 19,284.9	12,547.1	R 31,832.0
2016	66.8	R 1,735.0	R 2,951.5	559.5	846.2	10,192.4	3.4	R 1,052.9	R 15,605.8	R 227.4	R 17,634.9	12,361.6	R 29,996.5
2017	56.4	R 1,952.5	R 3,381.5	671.8	1,039.3	11,330.0	6.4	1,091.4	R 17,520.4	R 232.3	R 19,761.6	11,881.0	R 31,642.6
2018	49.0	R 2,110.1	R 4,256.9	867.7	R 1,389.8	12,328.0	7.0	1,270.6	R 20,120.1	R 221.7	R 22,500.9	12,796.9	R 35,297.8
2019	46.5	R 2,076.1	R 4,106.6	711.9	R 1,330.9	11,736.7	5.9	R 1,127.9	R 19,019.9	R 212.1	R 21,354.5	12,892.9	R 34,247.5
2020	40.4	R 1,930.7	R 3,324.1	650.4	R 636.9	8,809.1	13.1	R 911.8	R 14,345.5	R 175.4	R 16,492.0	12,293.5	R 28,785.5
2021	43.1	R 2,360.1	R 4,344.9	886.7	R 1,180.6	13,549.7	7.6	R 1,092.1	R 21,061.7	R 216.3	R 23,681.1	12,612.2	R 36,293.3
2022	63.2	R 3,116.2	R 6,690.2	982.0	R 2,128.1	18,023.0	12.2	R 1,508.9	R 29,344.4	R 249.8	R 32,773.6	13,363.4	R 46,137.0
2023	41.8	2,513.6	5,552.2	809.7	1,903.1	16,235.1	8.7	1,228.0	25,736.9	215.6	28,508.0	14,124.7	42,632.6

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. · Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2023, North Carolina

Year	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
	Prices in dollars per million Btu									
1970	1.14	1.27	1.31	2.24	1.40	1.43	0.73	1.36	5.45	2.35
1975	2.06	1.99	2.71	4.32	2.96	2.95	1.45	2.61	9.31	5.04
1980	2.70	4.06	6.95	7.67	7.96	7.29	3.70	6.00	13.91	9.44
1985	2.75	6.38	8.02	10.27	6.98	8.02	4.19	7.19	20.48	13.42
1990	2.78	5.98	7.95	11.22	8.10	8.96	3.53	7.40	22.99	16.16
1995	2.62	6.70	6.28	10.75	5.67	7.72	2.87	6.93	23.79	16.10
2000	2.41	9.25	9.74	14.84	7.40	11.44	4.37	9.94	23.36	17.46
2005	5.10	14.84	15.47	20.27	12.73	17.22	6.83	15.31	25.37	21.45
2006	5.14	16.36	17.08	22.17	18.37	19.89	7.87	17.19	26.72	23.28
2007	4.63	15.19	18.28	24.58	20.65	21.96	8.70	17.12	27.54	23.94
2008	—	16.10	24.13	29.04	22.89	27.24	10.72	19.56	27.89	24.85
2009	—	13.89	17.19	25.06	21.62	23.07	8.05	16.35	29.29	24.67
2010	—	12.28	20.43	29.02	24.22	26.63	9.50	16.45	29.65	24.91
2011	—	12.38	27.17	33.00	27.44	31.45	11.42	17.79	30.06	26.02
2012	—	12.02	26.95	30.63	29.34	29.74	12.71	16.33	31.96	27.15
2013	—	11.66	27.95	30.71	29.17	30.04	12.45	15.72	32.16	26.54
2014	—	11.59	27.02	33.84	29.53	32.32	12.14	16.31	32.54	26.81
2015	—	11.18	17.69	27.07	16.77	23.63	8.37	14.52	33.06	26.92
2016	—	10.93	15.31	25.73	13.37	21.76	7.15	13.52	32.32	26.31
2017	—	12.83	17.44	29.37	16.72	26.37	8.00	15.72	32.05	27.07
2018	—	11.76	19.02	30.97	24.15	28.56	8.85	15.53	32.51	26.92
2019	—	12.49	18.45	28.81	22.56	26.71	8.51	15.68	33.46	27.77
2020	—	12.81	15.72	27.13	14.65	24.55	7.04	R 15.31	33.35	R 27.81
2021	—	13.66	19.04	33.56	23.14	29.53	8.45	R 17.03	33.18	R 27.98
2022	—	16.70	28.85	36.27	37.04	34.50	13.07	R 20.67	34.04	R 29.76
2023	—	16.81	27.05	34.97	32.96	32.94	11.95	20.57	37.89	32.53
	Expenditures in million dollars									
1970	6.6	35.6	65.9	22.1	79.8	167.8	4.4	214.4	272.5	486.9
1975	5.4	55.6	114.6	31.7	82.2	228.5	9.0	298.4	603.3	901.7
1980	2.4	139.6	285.2	71.6	124.0	480.7	25.2	647.9	1,156.6	1,804.5
1985	2.9	189.1	254.7	107.4	158.1	520.2	35.3	747.6	1,876.5	2,624.1
1990	2.2	215.9	195.6	157.2	64.6	417.4	16.1	651.6	2,599.4	3,251.0
1995	1.9	341.9	147.1	206.0	67.4	420.5	19.9	784.3	3,207.3	3,991.6
2000	0.8	609.0	183.4	338.2	83.1	604.7	24.3	1,238.8	3,709.1	4,947.9
2005	1.5	982.3	200.5	446.7	126.7	774.0	41.1	1,798.9	4,679.8	6,478.7
2006	1.4	956.7	201.2	420.4	124.4	746.1	42.0	1,746.1	4,818.2	6,564.3
2007	0.5	916.3	208.5	452.7	99.4	760.6	51.3	1,728.8	5,271.0	6,999.9
2008	—	1,059.7	254.2	703.2	56.5	1,013.9	70.8	2,144.3	5,306.2	7,450.5
2009	—	935.4	126.2	581.6	47.0	754.9	52.9	1,743.2	5,627.2	7,370.4
2010	—	931.5	168.0	710.4	75.9	954.2	67.0	1,952.7	6,288.5	8,241.2
2011	—	773.6	161.5	674.5	42.0	878.0	78.1	1,729.8	5,954.6	7,684.4
2012	—	688.9	123.8	452.1	17.6	593.5	72.7	1,355.0	5,962.7	7,317.7
2013	—	824.0	R 138.3	496.8	17.4	R 652.6	92.9	R 1,569.5	6,172.5	R 7,741.9
2014	—	893.1	R 131.8	636.2	28.5	R 796.5	91.7	R 1,781.3	6,511.4	R 8,292.6
2015	—	746.5	R 160.4	468.6	14.3	R 643.3	33.2	R 1,423.0	6,531.8	R 7,954.9
2016	—	730.0	R 115.2	381.7	16.6	R 513.4	R 24.0	R 1,267.4	6,446.1	R 7,713.5
2017	—	796.5	R 70.6	417.8	11.3	R 499.7	23.5	R 1,319.7	6,138.4	R 7,458.1
2018	—	887.2	R 83.5	579.3	17.1	R 679.9	R 35.3	R 1,602.4	6,834.7	R 8,437.1
2019	—	875.2	R 74.9	508.3	19.1	R 602.3	R 29.7	R 1,507.2	6,834.0	R 8,341.3
2020	—	847.3	R 56.7	424.2	12.6	R 493.6	R 17.2	R 1,358.1	6,672.9	R 8,031.0
2021	—	1,017.6	R 104.2	522.4	19.2	R 645.8	R 21.4	R 1,684.8	6,897.0	R 8,581.8
2022	—	1,238.1	R 160.2	606.4	27.7	R 794.4	R 41.6	R 2,074.1	7,253.5	R 9,327.6
2023	—	1,097.0	141.5	531.2	42.6	715.3	32.4	1,844.6	7,593.1	9,437.6

[a] Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2023, North Carolina

Year	Primary energy										Electricity [j]	Total energy [g,h,i]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f,g]	Total [g,h,i]		
	Prices in dollars per million Btu											
1970	0.53	0.94	1.02	1.39	0.77	2.82	0.67	1.24	0.73	1.02	4.60	2.54
1975	1.53	1.71	2.34	2.58	2.37	4.55	1.79	2.64	1.45	2.02	8.46	5.09
1980	1.71	3.67	6.33	5.01	6.12	9.91	3.80	6.44	3.70	4.69	12.28	8.39
1985	1.90	5.65	6.10	9.01	6.98	9.03	4.46	6.79	4.19	5.95	18.18	12.44
1990	1.80	4.48	5.41	9.15	8.10	9.44	3.16	6.81	3.53	5.28	18.93	13.33
1995	1.71	5.08	4.28	8.95	5.67	8.91	2.81	5.78	2.87	5.04	19.09	13.62
2000	1.58	7.38	7.24	12.16	7.40	11.71	4.25	8.97	4.37	7.72	18.67	14.69
2005	2.49	12.47	13.01	16.92	12.73	18.23	6.69	15.46	6.83	13.05	20.09	17.58
2006	2.86	13.59	14.96	18.77	18.37	20.53	8.05	17.64	7.87	14.50	21.00	18.82
2007	2.95	12.36	16.26	20.88	20.65	22.44	9.44	19.42	8.70	14.41	21.77	19.49
2008	4.55	13.78	23.82	25.11	22.89	26.55	13.11	24.93	10.72	16.35	22.13	20.16
2009	5.37	11.34	14.07	19.38	21.62	19.01	9.33	17.28	8.05	12.84	23.39	19.63
2010	4.64	10.00	17.97	22.93	24.22	22.65	12.45	20.84	9.50	12.56	23.91	20.00
2011	4.79	9.51	24.02	26.56	27.44	28.75	16.22	25.55	11.42	13.15	23.84	20.45
2012	5.15	8.50	24.52	20.42	29.34	29.43	18.02	23.42	12.41	12.03	25.39	21.26
2013	5.13	8.69	24.01	20.48	29.17	28.74	18.67	22.85	8.55	R 11.17	25.67	21.02
2014	5.06	8.90	22.13	22.28	29.53	27.68	16.81	22.81	R 7.58	11.59	25.65	20.83
2015	5.02	7.99	13.69	12.87	16.77	19.70	9.29	16.22	R 4.60	10.38	25.58	20.20
2016	4.96	7.45	11.83	11.99	13.37	17.97	7.29	14.95	R 3.72	9.61	25.26	19.78
2017	5.06	8.61	13.85	15.93	16.72	20.00	—	17.19	R 3.64	11.11	24.74	20.02
2018	5.32	8.24	16.99	17.37	24.15	21.76	10.07	19.22	R 4.39	11.45	25.14	20.36
2019	5.74	8.49	15.63	13.69	22.56	20.28	—	17.26	R 4.80	11.06	25.81	20.73
2020	5.48	8.72	10.50	12.90	14.65	17.06	—	14.15	R 3.75	10.42	25.47	R 20.21
2021	5.55	9.55	15.98	20.10	23.14	23.77	11.29	20.66	R 4.75	13.01	24.90	20.68
2022	7.52	11.99	27.95	21.32	37.04	30.52	16.81	R 28.55	13.07	19.21	25.65	23.09
2023	8.27	10.84	22.13	17.08	32.96	27.50	14.83	23.16	11.95	14.80	28.35	23.71
	Expenditures in million dollars											
1970	2.4	20.7	10.1	5.2	1.0	5.3	0.8	22.3	0.1	45.5	152.2	197.8
1975	9.3	37.7	19.4	7.2	1.6	9.9	2.6	40.7	0.2	87.9	337.0	424.9
1980	5.6	97.1	61.7	17.7	4.1	41.1	11.7	136.4	0.6	239.8	597.4	837.2
1985	7.2	146.2	105.1	35.8	9.7	30.0	9.0	189.6	0.8	343.8	1,188.9	1,532.7
1990	5.7	144.7	72.6	48.6	3.6	38.8	4.4	168.0	1.8	320.2	1,648.2	1,968.4
1995	8.4	195.9	58.4	65.1	4.7	2.8	3.3	134.3	2.7	341.3	2,025.9	2,367.2
2000	4.3	328.1	112.9	105.1	9.8	20.1	3.0	250.9	4.1	587.4	2,488.7	3,076.1
2005	8.7	616.7	126.4	126.3	11.7	183.5	9.6	457.5	6.6	1,089.5	3,027.8	4,117.2
2006	7.6	651.3	127.7	137.0	10.4	170.8	8.2	454.0	7.1	1,120.0	3,195.3	4,315.3
2007	3.0	580.2	141.2	155.6	8.3	133.0	1.8	439.9	8.3	1,031.4	3,477.2	4,508.7
2008	30.4	689.2	187.1	247.1	4.8	176.8	3.7	619.5	10.8	1,349.9	3,514.8	4,864.7
2009	29.7	596.7	147.3	146.8	3.7	187.3	0.2	485.2	7.5	1,119.0	3,689.9	4,808.9
2010	23.5	572.4	169.8	184.3	9.0	112.7	(s)	475.9	8.7	1,080.4	3,910.6	4,991.0
2011	20.8	481.0	210.9	187.4	4.1	55.2	0.1	457.7	10.1	969.6	3,779.9	4,749.6
2012	17.2	422.0	210.7	140.7	1.5	53.9	(s)	406.7	9.9	855.8	4,029.8	4,885.6
2013	18.3	486.9	R 132.7	140.1	1.7	46.4	0.2	R 321.0	11.8	R 838.1	4,085.2	R 4,923.3
2014	20.0	546.7	R 156.8	190.6	3.7	49.3	0.6	R 401.1	R 12.0	R 979.7	4,157.7	R 5,137.5
2015	19.5	455.8	R 101.3	99.6	1.0	252.8	0.1	R 454.8	R 5.4	R 935.4	4,210.5	R 5,145.8
2016	15.5	430.8	R 80.7	80.1	1.1	246.1	0.1	R 408.1	R 4.2	R 858.6	4,189.5	R 5,048.1
2017	13.9	479.2	R 96.0	130.4	0.6	238.3	—	R 465.3	R 4.1	R 962.6	4,042.9	R 5,005.5
2018	10.7	491.7	R 126.2	134.5	0.9	263.6	0.1	R 525.3	R 5.0	R 1,032.8	4,228.8	R 5,261.5
2019	8.6	502.0	R 118.1	94.3	0.8	247.7	—	R 460.8	R 4.2	R 975.7	4,330.8	R 5,306.5
2020	6.9	470.2	R 70.4	116.6	0.5	209.2	—	R 396.6	R 3.9	R 877.6	3,989.2	R 4,866.8
2021	6.5	559.8	R 113.9	183.5	1.1	294.3	(s)	R 592.9	R 4.4	R 1,163.7	4,053.6	R 5,217.2
2022	7.1	726.7	R 199.6	178.2	1.6	1,000.0	(s)	R 1,379.5	R 6.4	2,119.7	4,307.7	6,427.4
2023	7.1	612.8	148.8	138.4	2.5	351.1	(s)	640.8	5.8	1,266.5	4,662.2	5,928.7

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[g] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[j] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: Expenditure totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2023, North Carolina

Year	Primary energy												Electricity [i]	Total energy [f,g,h]
	Coal			Natural gas [a]	Petroleum						Biomass	Total [f,g,h]		
	Coking coal	Steam coal	Total		Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e,f]			
	Prices in dollars per million Btu													
1970	—	0.53	0.53	0.50	0.71	1.46	2.82	0.45	0.99	0.87	1.61	0.71	2.76	1.07
1975	—	1.53	1.53	1.34	2.19	2.80	4.55	1.92	2.46	2.32	1.61	1.90	6.36	2.96
1980	—	1.71	1.71	3.32	5.49	5.46	9.91	3.72	5.75	4.92	1.61	3.82	9.28	5.17
1985	—	1.90	1.90	4.75	6.36	10.12	9.03	4.46	6.73	6.38	1.61	4.66	13.83	7.01
1990	—	1.80	1.80	3.36	5.77	10.19	9.44	3.16	5.19	5.50	0.97	3.30	13.99	5.95
1995	—	1.71	1.71	3.45	4.50	8.37	8.91	2.81	5.14	4.96	1.18	3.31	14.21	5.85
2000	—	1.58	1.58	5.15	7.54	12.55	11.71	4.25	6.66	7.35	1.43	4.75	13.43	6.92
2005	—	2.49	2.49	10.79	13.39	18.00	18.23	6.69	9.25	11.12	2.75	8.47	14.76	10.03
2006	—	2.86	2.86	10.62	15.37	20.27	20.53	8.05	11.82	13.67	2.69	9.28	15.33	10.75
2007	—	2.95	2.95	9.66	16.42	22.59	22.44	9.44	12.34	14.67	2.54	9.67	16.02	11.31
2008	—	3.44	3.44	11.75	24.23	27.60	26.55	13.11	17.08	19.48	2.90	11.03	16.22	12.31
2009	—	4.07	4.07	8.44	15.12	21.61	19.01	9.33	16.35	15.77	2.72	9.20	17.56	11.45
2010	—	3.99	3.99	8.10	18.30	21.46	22.65	12.45	R 21.16	R 19.77	2.75	R 10.36	18.08	R 12.25
2011	—	4.22	4.22	7.60	24.18	25.92	28.75	16.22	R 26.25	R 25.31	2.84	R 11.56	17.63	R 13.08
2012	—	4.11	4.11	6.28	25.09	19.53	29.43	18.02	R 24.39	R 23.91	2.71	R 10.72	18.82	R 12.77
2013	—	3.87	3.87	6.77	24.56	19.59	28.74	18.67	R 25.32	R 24.62	2.70	R 10.53	18.90	R 12.64
2014	—	3.89	3.89	7.37	23.89	21.47	27.68	16.81	R 25.20	R 24.37	3.28	R 11.01	19.04	R 13.08
2015	—	3.94	3.94	6.12	15.23	11.65	19.70	9.29	R 22.31	R 18.50	3.19	R 8.63	19.09	R 11.40
2016	—	3.68	3.68	5.25	12.76	10.74	17.97	7.29	R 16.55	R 15.00	3.11	R 7.62	18.50	R 10.42
2017	—	3.43	3.43	6.02	14.49	14.67	20.00	9.53	16.45	16.00	3.06	8.29	18.18	10.79
2018	—	3.56	3.56	6.00	17.50	16.09	21.76	10.07	19.55	18.79	2.80	9.11	18.56	11.45
2019	—	3.89	3.89	5.60	16.19	12.38	20.28	9.59	R 20.63	R 18.34	2.75	8.44	18.47	10.99
2020	—	3.58	3.58	5.07	11.50	11.57	17.06	7.55	R 20.05	R 15.85	2.24	7.07	18.50	9.91
2021	—	3.62	3.62	6.12	15.87	18.67	23.77	11.29	R 21.64	R 19.70	2.88	R 8.84	17.99	11.14
2022	—	5.59	5.59	9.00	27.28	19.81	30.52	16.81	R 28.98	R 27.40	3.12	R 12.54	19.18	R 14.22
2023	—	7.03	7.03	6.51	23.68	15.51	27.50	14.83	26.72	24.42	3.29	10.79	20.94	13.46
	Expenditures in million dollars													
1970	—	28.7	28.7	38.4	18.6	10.1	14.9	16.5	38.9	98.9	14.4	180.4	151.4	331.8
1975	—	53.2	53.2	84.6	54.6	36.6	18.7	85.1	86.0	280.9	14.4	433.1	452.8	886.0
1980	—	57.3	57.3	287.1	132.0	88.2	26.8	197.3	194.0	638.3	20.4	1,003.1	799.8	1,802.9
1985	—	106.1	106.1	367.2	134.0	124.8	39.5	163.0	251.5	712.7	23.9	1,210.1	1,239.9	2,449.9
1990	—	133.2	133.2	287.9	115.9	120.1	40.0	86.6	216.2	578.8	52.3	1,052.2	1,467.3	2,519.6
1995	—	105.5	105.5	380.0	121.6	148.2	45.3	102.0	276.1	693.2	82.5	1,261.2	1,651.7	2,912.9
2000	—	73.6	73.6	565.8	184.7	249.8	49.0	126.2	324.6	934.3	97.3	1,670.9	1,569.3	3,240.2
2005	—	91.9	91.9	971.5	332.8	263.5	173.3	206.8	437.5	1,413.9	155.8	2,633.1	1,516.4	4,149.5
2006	—	92.1	92.1	957.8	349.0	350.2	206.7	195.8	546.8	1,648.4	181.5	2,879.7	1,530.7	4,410.4
2007	—	88.8	88.8	882.2	372.5	340.2	159.8	186.2	587.6	1,646.4	127.1	2,744.6	1,583.7	4,328.2
2008	—	95.7	95.7	1,080.7	471.7	261.1	153.3	234.4	683.9	1,804.3	227.2	3,207.9	1,537.3	4,745.2
2009	—	92.7	92.7	712.3	257.9	220.3	107.9	122.2	495.9	1,204.2	134.3	2,143.4	1,503.5	3,647.0
2010	—	92.0	92.0	760.7	318.0	347.6	190.7	136.8	R 829.1	R 1,822.1	183.8	R 2,858.6	1,623.2	R 4,481.8
2011	—	83.5	83.5	763.1	418.6	409.1	247.8	93.5	R 914.2	R 2,083.2	192.1	R 3,121.9	1,597.2	R 4,719.2
2012	—	70.5	70.5	650.7	421.6	298.1	236.1	51.5	R 1,002.6	R 2,009.9	180.3	R 2,911.4	1,727.5	R 4,638.9
2013	—	69.3	69.3	753.4	475.4	199.5	241.3	23.2	R 921.2	R 1,860.6	182.1	R 2,865.3	1,732.9	R 4,598.3
2014	—	61.3	61.3	814.7	443.2	260.3	178.0	17.3	R 927.8	R 1,826.7	206.3	R 2,909.0	1,751.8	R 4,660.8
2015	—	56.4	56.4	666.4	295.7	124.3	129.4	4.3	R 778.8	R 1,332.5	216.6	R 2,271.9	1,804.1	R 4,076.0
2016	—	51.2	51.2	572.9	277.3	91.6	116.3	2.5	R 738.3	R 1,226.1	199.3	R 2,049.5	1,725.5	R 3,775.0
2017	—	42.5	42.5	670.0	321.4	121.6	130.8	5.0	796.8	1,375.5	204.6	2,292.6	1,699.3	3,991.9
2018	—	38.4	38.4	721.7	376.1	150.3	145.6	5.2	955.8	1,632.8	181.4	2,574.2	1,732.4	4,306.6
2019	—	37.9	37.9	688.5	359.5	107.0	134.8	3.3	R 809.1	R 1,413.7	178.1	R 2,318.3	1,726.6	R 4,044.8
2020	—	33.5	33.5	604.4	227.0	106.8	114.4	13.1	R 626.8	R 1,088.2	154.3	R 1,880.4	1,630.2	R 3,510.5
2021	—	36.5	36.5	773.7	337.0	177.5	156.4	5.4	R 757.9	R 1,434.1	190.5	R 2,434.9	1,660.5	R 4,095.4
2022	—	56.1	56.1	1,138.9	585.6	190.5	209.9	8.2	R 1,084.2	R 2,078.3	R 201.9	R 3,475.1	1,801.1	R 5,276.2
2023	—	34.7	34.7	793.4	496.0	134.1	193.0	6.0	864.8	1,693.8	177.4	2,699.4	1,868.3	4,567.8

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[i] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET6. Transportation sector energy price and expenditure estimates, selected years, 1970-2023, North Carolina

	Primary energy												
			Petroleum										
	Coal	Natural gas[a]	Aviation gasoline	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Lubricants	Motor gasoline [e]	Residual fuel oil	Total	Total [f]	Electricity [g]	Total energy [f]
Year	Prices in dollars per million Btu												
1970	0.53	—	2.17	1.30	1.39	0.73	5.08	2.82	0.27	2.52	2.52	—	2.52
1975	1.53	—	3.45	3.12	2.58	2.03	7.48	4.55	1.56	4.27	4.27	—	4.27
1980	—	—	9.02	7.34	5.01	6.46	14.36	9.91	3.43	9.35	9.35	—	9.35
1985	—	—	9.99	7.66	10.50	5.77	18.18	9.03	3.78	8.62	8.62	—	8.62
1990	—	4.42	9.32	8.75	11.77	5.65	20.61	9.44	2.65	9.15	9.15	—	9.15
1995	—	4.13	8.36	7.81	12.08	3.90	21.75	8.91	2.48	8.53	8.53	—	8.53
2000	—	7.59	10.87	10.56	16.16	6.50	23.20	11.71	4.11	11.22	11.22	—	11.22
2005	—	11.17	18.56	17.34	21.27	12.36	35.22	18.23	6.93	17.76	17.76	24.42	17.76
2006	—	11.33	22.31	19.38	23.12	14.51	43.88	20.53	7.89	20.13	20.13	9.45	20.13
2007	—	10.29	23.70	20.61	24.99	15.59	47.16	22.44	9.36	21.74	21.74	26.64	21.74
2008	—	12.42	27.23	27.69	29.09	22.80	55.12	26.55	13.27	26.67	26.67	19.26	26.67
2009	—	10.93	20.32	17.73	22.49	12.12	56.07	19.01	9.51	18.76	18.76	20.01	18.76
2010	—	9.60	25.19	21.45	26.67	16.18	58.80	22.65	10.50	21.98	21.98	20.79	21.98
2011	—	11.97	31.64	27.60	31.34	22.68	69.54	28.75	14.32	28.13	28.13	20.64	28.13
2012	—	6.39	33.04	28.52	25.49	22.96	72.11	29.43	15.92	28.82	28.82	23.11	28.82
2013	—	R 6.73	32.71	28.19	25.48	22.30	69.42	28.74	—	28.17	28.17	23.27	R 28.16
2014	—	R 6.91	33.16	27.39	27.32	20.96	69.44	27.68	14.77	27.12	27.12	22.98	27.12
2015	—	R 6.79	24.86	19.40	17.34	12.24	67.28	19.70	7.95	19.13	19.13	23.16	19.13
2016	—	R 5.80	21.62	16.34	16.22	10.04	65.78	17.97	5.77	17.07	17.07	23.10	17.07
2017	—	R 6.74	24.13	18.77	20.39	11.64	67.25	20.00	8.17	19.07	19.05	25.06	19.05
2018	—	R 6.74	27.04	22.27	21.97	15.50	72.37	21.76	10.21	21.41	21.39	23.51	21.39
2019	—	R 6.42	25.57	21.43	18.14	14.29	74.92	20.28	9.61	20.08	R 20.06	24.04	R 20.06
2020	—	R 5.22	22.34	18.06	16.98	9.65	75.34	17.06	7.01	16.89	R 16.87	22.47	R 16.87
2021	—	R 5.46	28.86	23.08	25.46	14.39	81.25	23.77	10.59	22.93	22.89	23.00	22.89
2022	—	R 7.15	36.02	35.77	25.97	25.17	97.37	30.52	18.62	R 31.33	R 31.28	22.30	R 31.27
2023	—	5.73	32.62	30.17	21.17	20.29	105.48	27.50	15.25	27.46	27.41	25.98	27.41
	Expenditures in million dollars												
1970	(s)	—	1.7	47.8	0.3	18.7	16.1	815.5	0.6	900.7	900.7	—	900.7
1975	(s)	—	3.8	149.2	1.1	42.3	22.6	1,570.5	2.6	1,792.1	1,792.1	—	1,792.1
1980	—	—	9.8	457.5	1.0	185.3	55.3	3,381.0	2.1	4,092.0	4,092.0	—	4,092.0
1985	—	—	8.8	617.0	7.4	213.6	63.7	3,293.3	2.3	4,206.1	4,213.1	—	4,213.1
1990	—	(s)	10.0	805.7	7.2	174.2	81.2	3,767.2	8.6	4,854.0	4,854.1	—	4,854.1
1995	—	0.1	5.9	902.9	6.5	109.3	81.8	3,960.8	4.7	5,071.8	5,071.9	—	5,071.9
2000	—	0.4	7.7	1,531.4	6.1	268.1	93.2	5,891.0	3.3	7,800.7	7,801.0	—	7,801.0
2005	—	0.4	12.0	2,796.4	101.9	516.0	119.3	9,656.5	18.3	13,220.5	13,220.9	(s)	13,220.9
2006	—	0.3	12.0	3,126.2	104.2	438.0	144.8	10,955.3	9.6	14,790.0	14,790.3	(s)	14,790.3
2007	—	0.2	11.5	3,285.9	86.4	633.1	160.8	12,152.7	34.7	16,365.0	16,365.2	(s)	16,365.2
2008	—	0.4	16.2	3,771.2	170.7	675.5	174.5	15,146.3	60.9	20,015.2	20,015.6	0.3	20,015.9
2009	—	0.3	7.0	R 2,516.2	98.0	127.4	159.6	10,024.8	41.4	R 12,974.3	R 12,974.6	0.5	R 12,975.1
2010	—	0.3	19.9	R 3,148.6	5.7	1,141.4	254.3	12,005.0	25.8	16,600.8	16,601.1	0.5	16,601.6
2011	—	0.4	23.5	R 3,989.7	6.8	1,607.7	284.7	14,764.5	26.4	R 20,703.3	R 20,703.7	0.5	R 20,704.2
2012	—	0.2	23.6	R 3,830.2	5.2	1,676.2	263.4	14,831.8	0.3	R 20,630.9	R 20,631.1	0.6	R 20,631.7
2013	—	0.5	20.2	R 4,014.3	6.6	1,744.3	271.0	14,764.6	—	R 20,820.9	R 20,821.4	0.6	R 20,822.0
2014	—	R 0.9	14.1	R 4,107.7	6.2	1,707.4	282.2	14,257.1	(s)	R 20,374.7	R 20,375.6	0.7	R 20,376.3
2015	—	R 1.0	11.2	R 2,931.0	5.0	995.4	302.9	10,407.5	0.5	R 14,653.6	R 14,654.6	0.7	R 14,655.3
2016	—	R 1.3	10.1	R 2,478.2	6.1	846.2	286.8	9,830.0	0.8	R 13,458.2	R 13,459.4	0.5	R 13,460.0
2017	—	R 6.8	11.9	R 2,893.5	2.0	1,039.3	270.8	10,960.9	1.4	R 15,179.9	R 15,186.7	0.3	R 15,187.0
2018	—	R 9.5	13.9	R 3,671.1	3.6	R 1,389.8	283.0	11,918.8	1.7	R 17,282.0	R 17,291.5	1.0	R 17,292.5
2019	—	R 10.4	14.0	3,554.0	2.4	R 1,330.9	R 285.0	11,354.2	2.6	R 16,542.9	R 16,553.4	1.5	R 16,554.9
2020	—	R 8.8	11.5	R 2,970.0	2.8	R 636.9	R 260.4	8,485.5	(s)	R 12,367.2	R 12,376.0	1.2	R 12,377.2
2021	—	R 9.0	17.1	R 3,789.8	3.3	R 1,180.6	R 296.8	13,099.0	2.2	R 18,388.8	R 18,397.8	1.1	R 18,399.0
2022	—	R 12.4	22.1	R 5,744.8	6.8	R 2,128.1	R 373.4	16,813.2	4.0	R 25,092.3	R 25,104.7	1.1	R 25,105.8
2023	—	10.4	19.0	4,766.0	6.0	1,903.1	299.2	15,691.1	2.7	22,687.0	22,697.4	1.1	22,698.6

[a] Transportation use of natural gas as vehicle fuel only.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET7. Electric power sector price and expenditure estimates, selected years, 1970-2023, North Carolina

Year	Coal	Natural gas [a]	Petroleum: Distillate fuel oil	Petroleum: Petroleum coke	Petroleum: Residual fuel oil	Petroleum: Total	Nuclear fuel	Biomass: Wood and waste [b]	Electricity imports [c]	Total energy [d]
	Prices in dollars per million Btu									
1970	0.41	0.37	0.83	—	0.69	0.79	—	—	—	0.41
1975	1.07	1.41	2.22	—	1.78	1.89	0.29	—	—	1.05
1980	1.57	3.15	5.82	—	3.82	5.82	0.36	—	—	1.48
1985	1.98	4.78	5.68	—	—	5.68	0.54	—	—	1.57
1990	1.78	3.12	5.12	—	—	5.12	0.54	0.46	—	1.35
1995	1.63	2.33	3.82	—	—	3.82	0.51	0.70	—	1.21
2000	1.43	4.32	6.16	—	—	6.16	0.30	0.67	—	1.09
2005	2.40	9.99	11.73	—	—	11.73	0.41	2.28	—	1.91
2006	2.69	7.64	13.99	—	—	13.99	0.43	2.32	—	2.05
2007	2.75	7.94	14.91	—	—	14.91	0.41	2.42	—	2.17
2008	3.26	11.00	19.76	—	—	19.76	0.43	2.66	—	2.56
2009	3.59	7.63	12.28	—	—	12.28	0.50	2.20	—	2.57
2010	3.52	6.49	16.49	—	—	16.49	0.53	2.40	—	2.68
2011	3.63	5.86	22.01	—	—	22.01	0.58	2.44	—	2.68
2012	3.77	4.36	23.18	—	—	23.18	0.59	2.21	—	2.66
2013	3.80	4.99	22.55	—	—	22.55	0.65	2.26	—	2.84
2014	3.58	6.06	22.10	—	—	22.10	0.66	2.73	—	3.01
2015	3.47	4.64	13.22	—	—	13.22	0.63	2.62	—	2.68
2016	3.10	3.68	10.58	—	—	10.58	0.63	2.54	—	2.29
2017	2.97	4.03	12.88	—	—	12.88	0.67	2.40	9.18	2.33
2018	3.15	4.31	17.12	—	—	17.12	0.62	2.22	10.74	2.58
2019	2.80	3.58	14.67	—	—	14.67	0.60	2.33	—	2.15
2020	2.54	3.24	10.62	—	—	10.62	0.60	1.80	—	1.89
2021	2.67	4.40	15.85	—	—	15.85	0.80	2.39	—	2.51
2022	3.55	R 7.31	25.14	—	—	25.14	0.56	2.69	—	R 4.03
2023	4.68	5.35	24.50	—	—	24.50	0.55	2.93	—	3.15
	Expenditures in million dollars									
1970	173.8	8.0	6.9	—	1.9	8.9	—	—	—	190.7
1975	465.1	0.1	1.2	—	2.6	3.9	4.4	—	—	473.6
1980	919.7	5.5	19.0	—	(s)	19.0	22.9	—	—	967.2
1985	967.8	2.9	14.7	—	—	14.7	109.8	—	—	1,095.2
1990	871.9	9.0	11.6	—	—	11.6	149.0	0.8	—	1,042.4
1995	969.8	13.5	11.8	—	—	11.8	193.6	4.6	—	1,193.2
2000	1,050.8	56.9	41.9	—	—	41.9	123.9	4.5	—	1,277.9
2005	1,850.8	273.5	37.4	—	—	37.4	169.5	16.5	—	2,347.7
2006	2,000.2	219.6	38.4	—	—	38.4	177.3	19.6	—	2,455.1
2007	2,188.6	322.8	45.3	—	—	45.3	170.2	20.6	—	2,747.6
2008	2,479.9	400.3	54.5	—	—	54.5	179.5	21.2	—	3,135.4
2009	2,334.4	306.7	34.3	—	—	34.3	213.3	24.3	—	2,913.0
2010	2,536.4	477.6	50.3	—	—	50.3	224.1	32.1	—	3,320.6
2011	2,178.8	528.9	48.4	—	—	48.4	244.2	37.9	—	3,038.1
2012	1,938.2	661.4	45.7	—	—	45.7	242.8	39.7	—	2,927.7
2013	1,794.3	1,011.8	50.9	—	—	50.9	274.5	41.0	—	3,172.5
2014	1,723.7	1,267.2	111.9	—	—	111.9	281.9	54.8	—	3,439.5
2015	1,345.6	1,293.0	60.2	—	—	60.2	279.1	43.4	—	3,021.3
2016	1,131.6	1,116.2	29.1	—	—	29.1	283.5	45.2	—	2,605.5
2017	996.2	1,161.5	35.0	—	—	35.0	297.0	50.2	(s)	2,540.0
2018	985.4	1,462.4	118.8	—	—	118.8	271.1	42.8	0.1	2,880.5
2019	859.7	1,120.6	29.1	—	—	29.1	260.7	46.7	—	2,316.7
2020	542.8	1,016.3	14.1	—	—	14.1	263.5	31.3	—	1,868.0
2021	564.9	1,641.7	32.7	—	—	32.7	361.7	28.8	—	2,629.8
2022	539.9	R 3,494.4	74.2	—	—	74.2	249.5	26.2	—	R 4,384.3
2023	693.2	2,209.5	24.0	—	—	24.0	244.6	28.6	—	3,199.8

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[c] Electricity imported from Canada and Mexico.
[d] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET1. Primary energy, electricity, and total energy price and expenditure estimates, selected years, 1970-2023, North Dakota

	Primary energy														Electric power sector [i,k,l]	Electricity [m]	Total energy [h,i,j]
	Coal			Natural gas [a]	Petroleum							Nuclear fuel	Biomass				
	Coking coal	Steam coal	Total		Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total		Wood and waste [g,h]	Total [h,i,j,k]			
Year	Prices in dollars per million Btu																
1970	—	0.35	0.35	0.78	1.07	1.85	0.75	2.83	0.91	1.25	1.84	—	0.61	1.27	0.29	7.04	1.98
1975	—	0.42	0.42	1.26	2.66	3.29	2.09	4.69	1.80	2.71	3.58	—	1.20	2.27	0.50	8.57	3.49
1980	—	0.68	0.68	3.41	6.59	6.24	6.47	9.97	3.58	5.79	7.78	—	3.06	3.77	0.97	11.96	7.33
1985	—	0.82	0.82	4.97	6.77	8.85	6.44	9.64	3.49	6.67	7.91	—	3.46	3.00	1.22	17.11	6.25
1990	—	0.67	0.67	4.12	7.27	7.32	6.11	9.87	2.64	6.32	8.14	—	3.48	2.40	0.71	16.87	5.85
1995	—	0.75	0.75	3.81	6.50	7.25	4.54	9.19	2.38	6.47	7.62	—	2.15	2.31	0.79	16.74	5.50
2000	—	0.73	0.73	5.17	9.63	10.79	7.33	12.44	3.93	7.33	10.61	—	2.57	3.08	0.97	15.99	7.05
2005	—	0.82	0.82	10.00	16.10	15.77	12.98	18.18	6.59	8.50	15.98	—	2.52	4.79	1.17	17.38	10.50
2006	—	0.88	0.88	8.38	18.23	17.54	14.70	20.61	7.72	10.96	18.05	—	2.10	5.31	1.25	18.23	11.36
2007	—	0.96	0.96	7.57	20.39	19.60	16.00	23.41	8.51	17.14	21.02	—	2.57	6.04	1.31	18.85	12.75
2008	—	1.05	1.05	8.83	26.18	22.91	22.77	26.27	12.29	19.67	25.56	—	3.06	7.11	1.36	19.63	14.99
2009	—	1.13	1.13	6.55	16.73	17.97	12.61	19.70	7.91	20.77	18.02	—	2.48	5.10	1.31	19.48	11.34
2010	—	1.22	1.22	6.04	20.46	19.11	16.27	23.55	8.35	R 23.11	R 21.38	—	2.74	R 6.49	1.48	20.87	R 13.22
2011	—	1.43	1.43	5.80	26.83	21.21	22.56	29.95	15.48	R 25.58	R 27.17	—	3.05	R 9.23	1.56	22.02	R 17.11
2012	—	1.48	1.48	5.16	27.46	17.12	22.97	30.58	16.75	R 32.11	R 27.93	—	3.06	R 9.68	1.65	22.99	R 17.95
2013	—	1.52	1.52	5.15	27.08	18.00	22.06	29.83	16.53	R 27.09	R 27.11	—	2.87	R 10.23	1.80	24.07	R 18.29
2014	—	1.55	1.55	6.33	25.84	22.21	20.59	28.52	15.80	R 29.34	R 26.41	—	3.17	R 10.38	1.80	24.69	R 18.36
2015	—	1.66	1.66	4.96	17.74	12.16	11.88	20.47	10.18	R 28.82	R 18.62	—	R 2.58	R 6.87	1.90	25.68	R 13.70
2016	—	1.62	1.62	3.64	15.05	10.47	9.72	18.20	—	R 26.36	R 16.14	—	R 2.15	R 5.61	1.76	26.25	R 12.35
2017	—	1.51	1.51	4.36	17.32	14.41	12.10	20.44	—	25.06	18.30	—	R 2.04	6.51	1.83	25.78	13.47
2018	—	1.48	1.48	4.19	20.92	15.50	15.64	22.66	—	31.25	21.43	—	R 4.31	7.34	1.72	26.16	14.91
2019	—	1.57	1.57	3.84	19.83	13.54	14.37	21.60	—	R 33.38	20.22	—	R 4.50	7.23	1.83	25.98	14.63
2020	—	1.55	1.55	3.32	15.67	11.91	9.10	17.72	—	R 28.18	16.39	—	R 3.89	5.82	2.28	25.04	12.45
2021	—	1.56	1.56	5.07	R 20.80	18.58	14.48	25.03	—	R 32.73	R 22.29	—	R 4.50	7.73	2.07	25.38	R 15.59
2022	—	1.64	1.64	R 7.07	R 32.71	20.45	25.89	32.96	—	R 43.33	R 32.26	—	R 9.66	R 10.89	R 2.96	24.72	R 19.98
2023	—	1.83	1.83	4.75	27.19	16.98	20.75	29.23	—	41.02	27.57	—	8.03	9.57	2.26	23.54	18.15
	Expenditures in million dollars																
1970	—	19.9	19.9	14.9	30.9	12.1	8.3	130.2	3.2	15.7	200.5	—	(s)	237.3	-14.2	67.3	290.3
1975	—	28.6	28.6	31.1	68.8	19.7	20.9	247.6	10.0	24.8	391.9	—	0.1	467.3	-31.3	108.0	544.0
1980	—	110.4	110.4	77.6	312.6	29.6	59.7	480.1	13.6	39.5	935.0	—	1.2	1,196.4	-160.0	210.2	1,246.6
1985	—	248.2	248.2	118.4	300.9	17.1	58.3	446.8	6.2	55.5	885.0	—	1.8	1,341.9	-289.6	407.5	1,459.7
1990	—	251.7	251.7	98.9	305.9	37.5	39.0	422.5	4.0	42.2	851.0	—	2.2	1,213.9	-205.4	401.1	1,409.7
1995	—	299.9	299.9	114.3	302.3	46.0	8.5	413.8	1.4	43.1	815.0	—	1.9	1,247.6	-237.9	447.7	1,457.4
2000	—	309.3	309.3	189.0	437.4	132.4	17.2	550.6	1.2	63.9	1,202.6	—	2.3	1,785.4	-322.9	509.2	1,971.8
2005	—	354.9	354.9	324.4	917.3	195.7	47.5	823.0	10.4	89.0	2,082.9	—	3.3	2,887.4	-401.6	637.4	3,123.2
2006	—	364.6	364.6	279.4	1,053.9	178.1	61.3	903.4	4.9	149.5	2,351.1	—	3.0	3,116.7	-404.9	693.1	3,404.8
2007	—	405.4	405.4	296.8	1,407.2	215.6	64.4	1,040.9	4.9	90.8	2,823.8	—	2.9	3,632.2	-432.5	758.5	3,958.3
2008	—	444.7	444.7	383.8	1,797.9	241.8	79.2	1,167.5	6.9	97.3	3,390.7	—	3.1	4,310.5	-457.0	823.9	4,677.4
2009	—	476.4	476.4	250.9	R 933.8	193.1	49.1	893.8	2.9	155.0	R 2,227.6	—	2.5	R 3,013.2	-434.8	832.0	R 3,410.4
2010	—	499.8	499.8	269.4	R 1,532.1	184.8	70.9	1,103.0	2.0	R 189.8	R 3,082.6	—	3.1	R 3,927.5	-470.5	913.3	R 4,370.2
2011	—	565.1	565.1	296.1	R 2,816.2	204.8	106.8	1,479.1	5.7	R 305.1	R 4,917.7	—	4.0	R 5,848.8	-478.5	1,021.1	R 6,391.4
2012	—	600.3	600.3	241.4	R 3,297.4	155.4	93.8	1,597.3	2.4	R 293.5	R 5,439.7	—	3.5	R 6,335.5	-522.1	1,139.8	R 6,953.2
2013	—	597.7	597.7	279.9	R 3,615.9	230.3	109.6	1,619.5	0.2	R 371.7	R 5,947.4	—	4.3	R 6,906.2	-559.4	1,298.9	R 7,645.7
2014	—	619.6	619.6	366.8	R 3,804.1	262.6	92.1	1,614.9	0.2	R 407.3	R 6,181.3	—	4.6	R 7,257.2	-564.1	1,515.6	R 8,208.7
2015	—	676.0	676.0	311.5	R 1,902.7	128.2	67.7	1,157.1	0.1	R 273.9	R 3,529.7	—	R 3.6	R 4,593.4	-617.0	1,561.1	R 5,537.4
2016	—	641.2	641.2	240.9	R 1,273.2	106.7	46.0	972.1	—	R 181.0	R 2,579.0	—	R 3.0	R 3,526.0	-560.0	1,630.6	R 4,596.6
2017	—	599.5	599.5	281.3	R 1,763.5	167.2	52.4	1,076.5	—	220.7	R 3,280.2	—	2.7	R 4,231.3	-582.1	1,743.6	R 5,392.8
2018	—	601.0	601.0	311.1	R 2,274.8	170.3	R 72.2	1,195.1	—	262.9	R 3,975.5	—	3.1	R 4,933.3	-560.4	1,818.8	R 6,191.7
2019	—	582.5	582.5	320.5	R 2,067.7	203.3	R 63.0	1,144.0	—	R 236.4	R 3,714.4	—	R 3.0	R 4,661.6	-563.7	1,886.2	R 5,984.1
2020	—	561.4	561.4	275.7	R 1,391.2	142.1	R 40.3	833.4	—	R 208.0	R 2,615.0	—	R 2.4	R 3,695.7	-735.4	1,844.6	R 4,804.9
2021	—	565.7	565.7	412.8	R 1,910.7	208.8	R 66.1	1,237.3	—	R 244.7	R 3,667.6	—	R 2.8	R 4,779.4	-627.9	1,961.0	R 6,112.5
2022	—	605.1	605.1	R 608.4	R 3,085.7	229.5	R 118.9	1,602.7	—	R 334.5	R 5,371.3	—	R 4.2	R 7,007.5	R -946.2	2,123.1	R 8,184.5
2023	—	595.9	595.9	487.5	2,518.6	184.1	101.0	1,471.8	—	300.8	4,576.2	—	1.9	5,723.6	-656.1	2,247.0	7,314.5

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[l] Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
[m] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET2. Total end-use energy price and expenditure estimates, selected years, 1970-2023, North Dakota

Year	Primary energy											Electricity [k]	Total energy [h,i,j]
			Petroleum							Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g,h]	Total [h,i,j]		
	Prices in dollars per million Btu												
1970	0.85	0.79	1.07	1.85	0.75	2.83	0.91	1.25	1.84	0.61	1.63	7.04	1.98
1975	1.38	1.26	2.66	3.29	2.09	4.69	1.80	2.71	3.58	1.20	3.04	8.57	3.49
1980	2.60	3.41	6.60	6.24	6.47	9.97	3.58	5.79	7.79	3.06	6.80	11.96	7.33
1985	0.64	4.97	6.78	8.85	6.44	9.64	3.49	6.67	7.92	3.46	5.02	17.11	6.25
1990	0.63	4.12	7.29	7.32	6.11	9.87	2.64	6.32	8.15	3.48	4.64	16.87	5.85
1995	0.80	3.81	6.52	7.25	4.54	9.19	2.38	6.47	7.64	2.15	4.24	16.74	5.50
2000	0.74	5.17	9.67	10.79	7.33	12.44	3.93	7.33	10.63	2.57	5.91	15.99	7.05
2005	0.83	10.00	16.12	15.77	12.98	18.18	6.59	8.50	15.99	2.52	9.53	17.38	10.50
2006	0.88	8.38	18.25	17.54	14.70	20.61	7.72	10.96	18.06	2.10	10.36	18.23	11.36
2007	0.90	7.57	20.41	19.60	16.00	23.41	8.51	17.14	21.03	2.57	11.84	18.85	12.75
2008	0.93	8.83	26.20	22.91	22.77	26.27	12.29	19.67	25.57	3.06	14.27	19.63	14.99
2009	1.08	6.55	16.76	17.97	12.61	19.70	7.91	20.77	18.03	2.48	9.99	19.48	11.34
2010	1.12	6.04	20.48	19.11	16.27	23.55	8.35	R 23.11	R 21.39	2.74	R 12.05	20.87	R 13.22
2011	1.73	5.80	26.85	21.21	22.56	29.95	15.48	R 25.58	R 27.18	3.05	R 16.41	22.02	R 17.11
2012	1.44	5.16	27.47	17.12	22.97	30.58	16.75	R 32.11	R 27.94	3.06	R 17.21	22.99	R 17.95
2013	1.40	5.14	27.09	18.00	22.06	29.83	16.53	R 27.09	R 27.12	2.87	R 17.43	24.07	R 18.29
2014	1.63	6.43	25.85	22.21	20.59	28.52	15.80	R 29.34	R 26.42	3.17	R 17.35	24.69	R 18.36
2015	1.96	4.60	17.75	12.16	11.88	20.47	10.18	R 28.82	R 18.63	R 2.58	R 11.58	25.68	R 13.70
2016	1.86	3.87	15.08	10.47	9.72	18.20	—	R 26.36	R 16.16	R 2.15	R 9.56	26.25	R 12.35
2017	1.25	4.42	17.34	14.41	12.10	20.44	—	25.06	18.32	R 2.04	10.97	25.78	13.47
2018	1.25	4.41	20.94	15.50	15.64	22.66	—	31.25	21.44	R 4.31	12.65	26.16	14.91
2019	1.35	4.02	19.85	13.54	14.37	21.60	—	R 33.38	20.23	R 4.50	12.18	25.98	14.63
2020	1.35	3.47	15.69	11.91	9.10	17.72	—	R 28.18	R 16.40	R 3.89	9.48	25.04	12.45
2021	1.42	5.64	R 20.82	18.58	14.48	25.03	—	R 32.73	R 22.30	R 4.50	R 13.19	25.38	R 15.59
2022	1.53	7.87	R 32.73	20.45	25.89	32.96	—	R 43.33	R 32.27	R 9.66	R 18.72	24.72	R 19.98
2023	1.72	5.29	27.24	16.98	20.75	29.23	—	41.02	27.59	8.03	16.48	23.54	18.15
	Expenditures in million dollars												
1970	7.9	14.8	30.9	12.1	8.3	130.2	3.1	15.7	200.3	(s)	223.1	67.3	290.3
1975	13.2	31.0	68.8	19.7	20.9	247.6	9.8	24.8	391.7	0.1	436.0	108.0	544.0
1980	24.9	77.6	310.2	29.6	59.7	480.1	13.6	39.5	932.6	1.2	1,036.4	210.2	1,246.6
1985	47.1	118.3	298.5	17.1	58.3	446.8	6.2	55.5	882.7	1.8	1,052.3	407.5	1,459.7
1990	55.3	98.9	304.0	37.5	39.0	422.5	4.0	42.2	849.2	2.2	1,008.5	401.1	1,409.7
1995	81.0	114.2	299.9	46.0	8.5	413.8	1.4	43.1	812.6	1.9	1,009.7	447.7	1,457.4
2000	72.5	189.0	433.5	132.4	17.2	550.6	1.2	63.9	1,198.8	2.3	1,462.5	509.2	1,971.8
2005	80.3	324.4	912.2	195.7	47.5	823.0	10.4	89.0	2,077.8	3.3	2,485.7	637.4	3,123.2
2006	85.1	279.4	1,047.1	178.1	61.3	903.4	4.9	149.5	2,344.3	3.0	2,711.8	693.1	3,404.8
2007	86.2	296.8	1,397.3	215.6	64.4	1,040.9	4.9	90.8	2,813.8	2.9	3,199.8	758.5	3,958.3
2008	86.9	383.8	1,786.8	241.8	79.2	1,167.5	6.9	97.3	3,379.6	3.1	3,853.4	823.9	4,677.4
2009	103.3	250.9	R 927.8	193.1	49.1	893.8	2.9	155.0	R 2,221.6	2.5	R 2,578.4	832.0	R 3,410.4
2010	108.8	269.4	R 1,525.2	184.8	70.9	1,103.0	2.0	R 189.8	R 3,075.7	3.1	R 3,456.9	913.3	R 4,370.2
2011	163.3	296.1	R 2,805.3	204.8	106.8	1,479.1	5.7	R 305.1	R 4,906.8	4.0	R 5,370.3	1,021.1	R 6,391.4
2012	137.7	241.4	R 3,288.6	155.4	93.8	1,597.3	2.4	R 293.5	R 5,430.9	3.5	R 5,813.4	1,139.8	R 6,953.2
2013	125.8	277.9	R 3,607.4	230.3	109.6	1,619.5	0.2	R 371.7	R 5,938.8	4.3	R 6,346.8	1,298.9	R 7,645.7
2014	154.4	359.1	R 3,797.7	262.6	92.1	1,614.9	0.2	R 407.3	R 6,174.9	4.6	R 6,693.0	1,515.6	R 8,208.7
2015	190.0	256.6	R 1,899.1	128.2	67.7	1,157.1	0.1	R 273.9	R 3,526.1	R 3.6	R 3,976.4	1,561.1	R 5,537.4
2016	176.8	210.5	R 1,270.0	106.7	46.0	972.1	—	R 181.0	R 2,575.8	R 3.0	R 2,966.0	1,630.6	R 4,596.6
2017	119.0	252.4	R 1,758.4	167.2	52.4	1,076.5	—	220.7	R 3,275.1	2.7	R 3,649.2	1,743.6	R 5,392.8
2018	119.7	281.3	R 2,268.2	170.3	R 72.2	1,195.1	—	262.9	R 3,968.8	3.1	R 4,372.9	1,818.8	R 6,191.7
2019	114.3	271.8	R 2,062.0	203.3	R 63.0	1,144.0	—	R 236.4	R 3,708.7	R 3.0	R 4,097.9	1,886.2	R 5,984.1
2020	116.1	230.5	R 1,387.4	142.1	R 40.3	833.4	—	R 208.0	R 2,611.2	R 2.4	R 2,960.3	1,844.6	R 4,804.9
2021	120.7	366.7	R 1,904.5	208.8	R 66.1	1,237.3	—	R 244.7	R 3,661.4	R 2.8	R 4,151.5	1,961.0	R 6,112.5
2022	131.0	563.6	R 3,076.9	229.5	R 118.9	1,602.7	—	R 334.5	R 5,362.5	R 4.2	R 6,061.3	2,123.1	R 8,184.5
2023	119.2	383.3	2,505.4	184.1	101.0	1,471.8	—	300.8	4,563.1	1.9	5,067.5	2,247.0	7,314.5

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. · Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2023, North Dakota

Year	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
	Prices in dollars per million Btu									
1970	1.56	0.99	1.28	2.03	1.65	1.61	0.61	1.37	7.80	2.51
1975	3.09	1.51	2.55	3.51	2.69	3.02	1.20	2.25	9.18	3.94
1980	1.96	3.66	6.92	7.48	7.39	7.05	3.06	5.12	13.14	7.51
1985	1.74	5.26	7.48	8.46	7.85	7.57	3.46	6.00	18.02	10.14
1990	1.10	4.55	6.87	7.98	8.28	7.21	3.56	5.63	18.33	10.09
1995	1.12	4.44	6.13	6.52	4.97	6.29	2.90	5.04	18.25	9.94
2000	1.17	6.15	9.03	10.18	9.18	9.80	4.41	7.74	18.86	11.59
2005	1.51	11.00	15.16	14.64	15.34	14.78	6.91	12.54	20.49	15.55
2006	1.73	10.34	17.37	16.13	19.50	16.55	7.96	12.97	20.91	16.28
2007	1.91	8.73	19.47	17.88	22.12	18.41	8.79	12.55	21.41	16.20
2008	—	9.92	23.84	21.61	23.25	22.45	10.83	15.66	22.03	18.17
2009	—	8.02	16.11	16.57	23.47	16.48	8.13	11.34	22.22	16.00
2010	—	7.66	19.46	18.69	24.94	18.86	9.60	12.07	23.82	17.32
2011	—	7.55	27.10	20.36	28.22	21.38	11.54	12.92	25.16	18.37
2012	—	6.98	27.01	17.55	29.60	18.84	12.85	11.35	26.55	18.72
2013	—	6.95	28.02	18.36	30.25	19.78	12.58	11.36	26.72	18.49
2014	—	8.16	27.08	24.06	32.56	24.44	12.27	13.86	26.81	19.87
2015	—	7.50	17.73	13.42	16.81	13.94	8.45	9.75	28.20	18.64
2016	—	6.63	15.35	10.91	13.40	11.48	7.22	8.33	29.78	18.75
2017	—	7.06	17.48	15.17	16.76	15.47	8.08	9.85	30.16	19.55
2018	—	6.66	19.06	15.75	25.82	16.10	8.94	9.88	30.04	19.05
2019	—	6.35	18.35	15.29	22.61	15.57	8.60	9.88	30.19	R 18.50
2020	—	6.37	15.91	13.60	14.68	13.97	7.11	8.63	30.59	19.24
2021	—	8.51	20.18	19.21	23.19	19.33	R 8.53	R 12.50	31.79	R 21.48
2022	—	10.29	29.70	21.79	40.28	22.84	R 13.20	14.40	32.00	22.26
2023	—	9.21	27.19	18.96	35.98	20.08	12.07	12.89	32.27	21.66
	Expenditures in million dollars									
1970	1.9	8.4	8.2	9.9	1.8	19.8	(s)	30.1	37.2	67.4
1975	1.9	15.4	11.5	15.7	0.3	27.5	0.1	44.9	59.5	104.4
1980	0.8	37.1	47.3	14.4	0.2	62.0	1.2	101.1	110.1	211.2
1985	1.0	57.9	50.6	5.4	0.6	56.6	1.8	117.3	185.1	302.4
1990	0.4	43.2	39.3	19.7	0.2	59.2	1.9	104.6	184.8	289.4
1995	0.2	52.3	25.6	19.1	0.1	44.8	1.3	98.6	210.7	309.3
2000	0.2	69.8	29.6	67.5	0.1	97.3	1.6	169.0	218.2	387.2
2005	0.6	121.9	40.6	102.6	0.6	143.8	0.8	267.1	265.4	532.4
2006	0.3	104.2	46.5	85.9	0.3	132.8	0.8	238.0	275.0	513.0
2007	0.8	97.7	52.9	96.7	0.3	149.8	1.0	249.3	297.1	546.4
2008	—	118.9	92.3	137.1	0.2	229.6	1.4	349.9	320.1	669.9
2009	—	97.4	29.7	100.7	0.4	130.8	1.2	229.5	337.3	566.8
2010	—	85.1	28.7	108.3	0.4	137.4	1.5	224.0	357.1	581.1
2011	—	88.6	30.2	129.5	0.3	159.9	1.7	250.3	390.8	641.0
2012	—	71.3	21.8	90.0	0.1	111.9	1.6	184.8	406.3	591.1
2013	—	89.8	27.7	105.4	0.1	133.2	2.1	R 225.1	459.4	684.4
2014	—	110.8	R 24.2	154.9	0.2	R 179.3	2.0	292.1	490.1	782.2
2015	—	86.0	13.2	73.3	0.1	R 86.6	1.4	R 174.0	467.9	R 641.9
2016	—	72.5	11.7	56.6	0.2	68.5	1.5	142.5	481.7	R 624.3
2017	—	84.2	R 13.8	78.8	0.1	92.6	1.5	R 178.3	498.9	R 677.2
2018	—	91.3	R 14.2	100.2	0.1	114.5	1.6	207.4	526.1	R 733.6
2019	—	91.9	15.0	125.6	0.2	140.8	1.6	R 234.3	528.0	762.2
2020	—	81.6	13.7	62.5	0.1	R 76.4	R 1.0	R 159.0	526.7	R 685.7
2021	—	101.6	R 17.0	119.5	0.2	136.6	R 1.4	R 239.6	530.3	R 770.0
2022	—	152.4	28.1	136.7	0.3	R 165.1	R 3.4	R 320.8	575.5	R 896.4
2023	—	126.4	25.4	115.7	0.4	141.5	1.4	269.4	557.9	827.2

[a] Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2023, North Dakota

Year	Primary energy										Electricity [j]	Total energy [g,h,i]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f,g]	Total [g,h,i]		
	Prices in dollars per million Btu											
1970	0.74	0.67	1.06	1.28	—	2.83	0.84	1.44	0.60	0.90	6.62	1.76
1975	1.26	1.11	2.34	2.55	—	4.69	1.69	2.22	1.20	1.43	7.84	2.23
1980	2.63	3.26	6.45	5.00	—	9.97	3.78	5.61	3.06	4.03	12.16	5.36
1985	0.63	4.81	6.03	8.12	7.85	9.64	3.49	6.17	3.46	4.62	17.54	8.42
1990	0.63	4.06	5.50	6.11	8.28	9.87	2.64	6.25	3.56	4.01	17.10	8.68
1995	0.80	3.72	4.30	7.70	4.97	9.19	2.38	5.54	2.90	3.62	17.12	8.71
2000	0.74	5.60	7.05	10.95	9.18	12.44	3.93	8.89	4.41	5.66	17.01	10.08
2005	0.83	9.97	13.72	16.17	15.34	18.18	6.59	14.29	6.91	8.28	17.91	12.55
2006	0.87	9.27	15.85	17.95	19.50	20.61	7.72	17.02	7.96	9.55	18.46	14.05
2007	0.89	8.00	17.41	19.38	22.12	23.41	8.51	18.14	8.79	7.98	19.30	13.14
2008	2.52	9.19	23.80	23.08	23.25	26.27	12.29	23.21	10.83	11.30	19.96	15.43
2009	2.52	7.02	14.01	18.46	23.47	19.70	7.91	16.71	8.13	8.27	19.96	14.01
2010	2.60	6.66	17.75	19.42	24.94	23.55	8.35	18.38	9.60	8.90	21.14	15.02
2011	2.80	6.52	24.11	22.72	28.22	29.95	15.48	23.75	11.54	12.65	22.29	16.89
2012	2.89	5.67	24.66	16.72	29.60	30.58	16.75	22.67	12.85	11.75	23.51	17.30
2013	2.97	5.91	24.30	17.81	30.25	29.83	16.53	22.24	12.58	12.03	24.59	R 17.46
2014	3.13	7.13	22.66	20.01	32.56	28.52	15.80	22.13	12.27	R 12.27	25.75	17.91
2015	3.26	6.09	13.40	11.20	16.81	20.47	10.18	13.05	8.45	7.56	25.89	17.23
2016	2.11	5.01	11.21	10.41	13.40	18.20	—	11.60	7.22	6.37	26.81	17.52
2017	1.47	5.54	13.62	14.28	16.76	20.44	—	14.68	8.08	7.57	26.94	17.83
2018	1.48	5.46	17.01	15.69	25.82	22.66	—	17.32	8.94	R 7.42	26.66	17.69
2019	1.55	5.14	15.55	11.96	22.61	21.60	—	14.40	8.60	6.69	26.41	16.97
2020	1.59	4.91	10.50	11.15	14.68	17.72	—	11.55	7.11	6.70	26.43	16.60
2021	1.60	6.72	16.73	18.24	23.19	25.03	—	R 18.01	R 8.53	9.90	26.87	18.76
2022	1.57	9.08	28.15	19.34	40.28	32.96	—	26.07	R 13.20	13.03	24.78	19.36
2023	1.61	7.43	21.42	15.02	35.98	29.23	—	20.18	12.07	10.63	21.62	17.36
	Expenditures in million dollars											
1970	0.7	5.8	1.5	1.2	—	2.2	0.5	5.5	(s)	12.0	15.7	27.7
1975	1.8	13.7	2.4	2.2	—	2.3	5.2	12.2	(s)	27.8	21.5	49.3
1980	3.9	37.8	24.1	1.9	—	3.8	9.5	39.4	(s)	81.2	47.5	128.7
1985	1.3	51.7	17.6	1.0	(s)	3.5	1.4	23.6	(s)	76.6	121.2	197.8
1990	0.9	42.9	5.6	3.0	(s)	3.6	0.4	12.6	0.2	56.7	134.2	190.8
1995	1.2	45.4	3.7	4.4	(s)	0.5	0.3	8.9	0.2	55.8	159.4	215.1
2000	1.3	64.1	9.5	14.3	0.1	0.7	0.3	24.8	0.3	90.5	173.6	264.1
2005	3.6	102.3	11.3	21.3	0.2	1.0	1.9	35.6	0.1	141.6	244.0	385.6
2006	1.5	90.6	13.8	22.7	0.4	2.2	0.5	39.5	0.1	131.6	260.0	391.6
2007	3.3	86.2	16.1	27.2	0.2	2.1	1.4	46.9	0.2	136.6	277.5	414.1
2008	4.5	106.3	31.5	43.2	0.1	2.3	0.9	78.0	0.2	189.1	303.8	492.8
2009	4.2	81.4	16.0	29.7	0.2	1.9	0.1	47.8	0.2	133.5	310.4	443.9
2010	4.1	72.4	43.1	20.6	0.2	2.3	0.1	66.5	0.2	143.2	340.0	483.2
2011	4.3	76.8	147.2	35.2	0.1	1.9	1.9	186.3	0.2	267.5	370.1	637.6
2012	3.7	62.6	127.9	29.7	0.1	3.1	1.6	162.4	0.2	228.9	409.9	638.8
2013	4.5	83.7	R 157.9	57.1	0.1	3.2	0.2	R 218.5	0.2	R 306.9	476.9	R 783.8
2014	4.0	108.4	R 158.0	40.3	0.2	2.7	0.2	R 201.4	R 0.2	R 314.0	474.7	R 788.7
2015	4.0	81.5	R 23.7	25.7	0.1	10.0	(s)	R 59.5	0.2	145.2	554.6	699.9
2016	2.1	64.4	14.1	24.8	0.1	9.1	—	48.1	R 0.2	114.8	580.4	695.2
2017	1.4	77.7	R 25.7	34.4	(s)	10.4	—	R 70.5	R 0.2	R 149.9	600.2	750.1
2018	1.5	85.3	R 31.0	21.2	0.1	11.7	—	R 63.9	0.2	R 150.9	621.8	772.6
2019	1.4	87.6	20.8	26.0	0.1	11.2	—	58.0	0.2	147.3	633.8	R 781.2
2020	0.9	76.6	14.7	49.0	(s)	9.2	—	72.9	0.2	R 150.6	599.0	749.5
2021	0.5	99.6	54.7	42.5	0.1	13.1	—	110.4	R 0.3	R 210.8	624.3	R 835.1
2022	0.7	164.7	R 102.3	32.6	0.1	17.9	—	R 152.9	0.5	318.7	709.5	R 1,028.2
2023	0.3	128.2	76.8	27.5	0.2	15.9	—	120.4	0.3	249.2	800.6	1,049.7

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[g] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[j] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: Expenditure totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2023, North Dakota

	Primary energy													
	Coal				Petroleum						Biomass			
	Coking coal	Steam coal	Total	Natural gas [a]	Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e,f]	Total [f,g,h]	Electricity [i]	Total energy [f,g,h]
Year	Prices in dollars per million Btu													
1970	—	0.74	0.74	0.38	0.79	1.35	2.83	0.94	0.85	1.48	—	1.32	5.95	1.55
1975	—	1.26	1.26	1.00	2.72	2.77	4.69	1.94	2.16	3.24	—	2.78	8.00	3.18
1980	—	2.63	2.63	2.58	5.50	5.45	9.97	3.19	4.18	6.31	—	5.52	9.94	6.03
1985	—	0.63	0.63	4.19	6.28	9.12	9.64	3.49	5.35	6.64	—	2.55	15.27	3.30
1990	—	0.63	0.63	3.24	5.87	6.80	9.87	2.64	3.82	5.96	2.17	2.07	14.05	2.62
1995	—	0.80	0.80	2.76	4.87	7.83	9.19	2.38	3.82	5.44	1.01	1.91	13.19	2.38
2000	—	0.74	0.74	4.00	7.97	11.65	12.44	3.93	5.23	8.11	0.89	2.66	11.65	3.26
2005	—	0.83	0.83	9.02	14.39	17.51	18.18	6.59	5.77	12.74	2.02	4.74	12.67	5.26
2006	—	0.87	0.87	6.26	16.44	19.41	20.61	7.72	8.68	14.59	1.57	5.15	14.64	5.78
2007	—	0.89	0.89	6.56	18.50	21.84	23.41	8.51	11.12	18.29	1.76	5.69	15.35	6.43
2008	—	0.90	0.90	7.97	24.77	26.11	26.27	12.29	12.58	23.49	1.78	7.54	16.38	8.20
2009	—	1.06	1.06	4.94	14.76	20.23	19.70	7.91	17.14	15.91	1.38	5.04	15.38	5.84
2010	—	1.09	1.09	4.95	18.68	19.84	23.55	8.35	R 19.86	R 19.04	1.47	R 6.69	17.04	R 7.42
2011	—	1.71	1.71	4.75	25.26	22.90	29.95	15.48	R 22.33	R 24.78	1.79	R 10.16	18.29	R 10.74
2012	—	1.42	1.42	4.21	25.46	16.43	30.58	16.75	R 27.97	R 25.58	1.66	R 10.44	19.20	R 11.16
2013	—	1.38	1.38	3.87	24.86	17.61	29.83	—	R 24.01	R 24.48	1.50	R 11.27	20.89	R 12.05
2014	—	1.61	1.61	5.17	23.20	19.98	28.52	15.80	R 26.13	R 23.58	1.83	R 11.32	22.33	R 12.48
2015	—	1.94	1.94	2.88	14.89	10.46	20.47	10.18	R 24.50	R 16.25	1.69	R 6.59	23.64	R 8.45
2016	—	1.86	1.86	2.41	11.99	9.62	18.20	—	R 21.29	R 13.38	1.14	R 4.88	23.39	R 7.21
2017	—	1.24	1.24	2.91	14.49	13.50	20.44	—	21.00	15.50	0.86	5.98	22.37	8.19
2018	—	1.24	1.24	3.04	17.59	14.89	22.66	—	27.22	18.82	2.43	7.03	23.39	9.19
2019	—	1.35	1.35	2.56	16.57	11.15	21.60	—	R 28.87	17.62	2.71	R 6.80	23.28	9.27
2020	—	1.35	1.35	1.90	12.21	10.32	17.72	—	R 24.07	R 13.91	2.68	R 4.99	21.29	R 7.66
2021	—	1.42	1.42	4.33	17.26	17.35	25.03	—	R 28.62	R 18.94	2.72	R 7.32	21.59	R 9.82
2022	—	1.53	1.53	6.37	28.23	18.40	32.96	—	R 38.63	R 29.11	R 2.04	R 10.99	21.35	R 12.86
2023	—	1.72	1.72	3.10	23.25	14.05	29.23	—	36.87	24.66	2.53	9.48	21.60	11.91
	Expenditures in million dollars													
1970	—	5.4	5.4	0.7	10.0	1.0	34.4	2.3	8.6	56.3	—	62.3	14.3	76.7
1975	—	9.4	9.4	1.9	25.6	1.8	54.1	4.6	16.8	102.9	—	114.1	27.0	141.1
1980	—	20.2	20.2	2.6	78.8	13.0	80.7	4.1	23.1	199.8	—	222.6	52.6	275.2
1985	—	44.9	44.9	8.7	105.5	10.3	54.7	4.8	39.6	214.9	—	268.8	101.1	369.9
1990	—	53.9	53.9	12.9	103.0	14.4	41.4	3.6	21.3	183.7	0.1	250.9	82.2	333.1
1995	—	79.5	79.5	16.4	85.6	21.8	32.8	1.1	20.7	162.0	0.3	258.3	77.7	336.0
2000	—	71.0	71.0	54.6	127.6	50.3	28.6	0.9	39.5	247.0	0.4	373.0	117.5	490.5
2005	—	76.2	76.2	100.2	313.3	69.9	59.1	8.5	53.5	504.4	2.4	683.0	128.1	811.1
2006	—	83.3	83.3	84.7	361.0	67.7	72.3	4.4	109.3	614.7	2.1	784.7	158.1	942.8
2007	—	82.1	82.1	113.0	413.9	89.8	69.4	3.5	47.6	624.2	1.8	821.0	183.9	1,005.0
2008	—	82.4	82.4	158.5	717.8	57.7	59.7	6.0	50.2	891.4	1.6	1,134.0	200.1	1,334.1
2009	—	99.1	99.1	72.1	335.7	57.7	45.8	2.8	112.9	554.9	1.2	727.2	184.3	911.5
2010	—	104.7	104.7	111.9	656.7	55.7	35.4	1.9	R 145.3	R 894.9	1.4	R 1,112.8	216.2	R 1,329.1
2011	—	159.1	159.1	130.7	1,262.1	39.9	47.6	3.8	R 243.3	R 1,596.6	2.1	R 1,888.5	260.3	R 2,148.7
2012	—	134.0	134.0	107.5	1,408.7	35.5	43.3	0.7	R 228.3	R 1,716.5	1.7	R 1,959.7	323.6	R 2,283.3
2013	—	121.3	121.3	104.4	1,592.9	67.6	44.8	—	R 304.9	R 2,010.3	2.0	R 2,238.0	362.7	R 2,600.6
2014	—	150.4	150.4	139.9	1,652.9	67.1	37.4	0.1	R 331.1	R 2,088.5	2.3	R 2,381.1	550.8	R 2,931.9
2015	—	186.0	186.0	89.0	675.7	29.0	41.6	(s)	R 204.2	R 950.5	2.1	R 1,227.6	538.5	R 1,766.1
2016	—	174.7	174.7	73.6	390.3	25.0	33.9	—	R 124.8	R 574.0	1.3	R 823.5	568.4	R 1,391.9
2017	—	117.6	117.6	90.5	636.9	53.9	38.2	—	164.5	893.5	1.0	1,102.6	644.4	1,747.0
2018	—	118.3	118.3	104.7	809.4	48.6	41.6	—	201.9	1,101.5	1.2	1,325.6	670.9	1,996.6
2019	—	112.8	112.8	92.3	732.5	51.2	38.7	—	R 176.7	R 999.0	1.3	R 1,205.5	724.4	R 1,929.9
2020	—	115.3	115.3	72.3	453.1	30.0	31.8	—	R 157.6	R 672.5	1.2	R 861.3	718.9	R 1,580.3
2021	—	120.2	120.2	165.4	725.1	46.2	43.0	—	R 190.2	R 1,004.4	1.2	R 1,291.2	806.4	R 2,097.6
2022	—	130.3	130.3	R 246.6	1,199.3	59.8	59.2	—	R 264.0	R 1,582.2	R 0.3	R 1,959.4	838.1	R 2,797.5
2023	—	118.9	118.9	128.6	964.1	40.7	54.5	—	244.1	1,303.4	0.3	1,551.3	888.6	2,439.8

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[i] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET6. Transportation sector energy price and expenditure estimates, selected years, 1970-2023, North Dakota

	Primary energy												
			Petroleum										
	Coal	Natural gas[a]	Aviation gasoline	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Lubricants	Motor gasoline [e]	Residual fuel oil	Total	Total [f]	Electricity [g]	Total energy [f]
Year	Prices in dollars per million Btu												
1970	0.74	—	2.17	1.33	1.28	0.75	5.08	2.83	0.83	2.19	2.19	—	2.19
1975	1.26	—	3.45	2.67	2.55	2.09	7.48	4.69	—	3.95	3.95	—	3.95
1980	—	—	9.02	7.23	5.00	6.47	14.36	9.97	—	8.74	8.74	—	8.74
1985	—	—	9.99	7.12	9.67	6.44	18.18	9.64	—	8.67	8.67	—	8.67
1990	—	4.18	9.32	8.96	8.20	6.11	20.61	9.87	—	9.40	9.40	—	9.40
1995	—	2.58	8.36	7.92	12.47	4.54	21.75	9.19	—	8.79	8.79	—	8.79
2000	—	5.32	10.87	11.03	16.02	7.33	23.20	12.44	—	11.92	11.91	—	11.91
2005	—	9.85	18.56	17.48	21.55	12.98	35.22	18.18	—	17.84	17.84	—	17.84
2006	—	10.64	22.31	19.65	23.30	14.70	43.88	20.61	—	20.14	20.14	—	20.14
2007	—	7.88	23.70	21.54	25.50	16.00	47.16	23.41	—	22.40	22.40	—	22.40
2008	—	10.86	27.23	27.78	29.45	22.77	55.12	26.27	—	27.03	27.03	—	27.03
2009	—	8.24	20.32	18.45	24.27	12.61	56.07	19.70	—	19.20	19.20	—	19.20
2010	—	8.38	25.19	22.50	26.60	16.27	58.80	23.55	—	23.02	23.02	—	23.02
2011	—	7.53	31.64	28.87	29.83	22.56	69.54	29.95	—	29.41	29.41	—	29.41
2012	—	5.79	33.04	29.62	22.65	22.97	72.11	30.58	—	30.13	30.13	—	30.13
2013	—	R 5.69	32.71	29.68	23.96	22.06	69.42	29.83	—	29.73	29.73	—	29.73
2014	—	R 6.34	33.16	28.94	26.59	20.59	69.44	28.52	—	28.79	28.79	—	28.79
2015	—	R 6.38	24.86	20.08	16.05	11.88	67.28	20.47	—	20.25	20.25	—	20.25
2016	—	R 5.89	21.62	17.19	15.11	9.72	65.78	18.20	—	17.71	17.71	—	17.71
2017	—	R 6.17	24.13	19.76	19.37	12.10	67.25	20.44	—	20.10	20.10	—	20.10
2018	—	R 6.24	27.04	23.66	19.99	15.64	72.37	22.66	—	23.23	23.23	—	23.23
2019	—	R 6.29	25.57	22.48	16.46	14.37	74.92	21.60	—	22.11	22.11	—	22.11
2020	—	R 6.19	22.34	18.47	15.41	9.10	75.34	17.72	—	18.06	18.06	—	18.06
2021	—	R 6.36	28.86	24.43	24.30	14.48	81.25	25.03	—	R 24.61	R 24.61	—	R 24.61
2022	—	R 7.68	36.02	37.23	24.19	25.89	97.37	32.96	—	35.08	35.08	—	35.08
2023	—	8.06	32.62	31.28	19.35	20.75	105.48	29.23	—	30.12	30.12	—	30.12
	Expenditures in million dollars												
1970	(s)	—	1.0	11.1	(s)	8.3	4.2	93.6	0.2	118.6	118.6	—	118.6
1975	(s)	—	1.5	29.2	(s)	20.9	6.2	191.2	—	249.1	249.1	—	249.1
1980	—	—	2.9	159.9	0.2	59.7	13.2	395.6	—	631.5	631.5	—	631.5
1985	—	—	0.2	124.8	0.4	58.3	15.2	388.7	—	587.5	589.6	—	589.6
1990	—	(s)	1.3	156.1	0.4	39.0	19.4	377.5	—	593.7	596.3	—	596.3
1995	—	0.1	2.7	185.0	0.6	8.5	19.5	380.5	—	596.9	597.1	—	597.1
2000	—	0.3	1.9	266.8	0.3	17.2	22.2	521.3	—	829.7	830.0	—	830.0
2005	—	(s)	6.2	547.1	1.9	47.5	28.5	762.8	—	1,394.0	1,394.0	—	1,394.0
2006	—	(s)	4.9	625.8	1.7	61.3	34.6	829.0	—	1,557.3	1,557.4	—	1,557.4
2007	—	(s)	4.4	914.3	1.9	64.4	38.4	969.4	—	1,992.8	1,992.8	—	1,992.8
2008	—	(s)	5.2	945.2	3.8	79.2	41.6	1,105.5	—	2,180.6	2,180.6	—	2,180.6
2009	—	(s)	3.5	R 546.4	5.0	49.1	38.1	846.1	—	R 1,488.2	R 1,488.2	—	R 1,488.2
2010	—	(s)	5.4	R 796.6	0.2	70.9	38.4	1,065.3	—	R 1,976.9	R 1,976.9	—	R 1,976.9
2011	—	(s)	7.6	R 1,365.9	0.3	106.8	53.8	1,429.6	—	R 2,964.0	R 2,964.0	—	R 2,964.0
2012	—	(s)	4.2	R 1,730.2	0.1	93.8	60.8	1,550.9	—	R 3,440.0	R 3,440.0	—	R 3,440.0
2013	—	(s)	3.4	R 1,828.9	0.3	109.6	63.2	1,571.4	—	R 3,576.8	R 3,576.8	—	R 3,576.8
2014	—	(s)	7.1	R 1,962.6	0.3	92.1	68.8	1,574.8	—	R 3,705.8	R 3,705.8	—	R 3,705.8
2015	—	(s)	5.1	R 1,186.6	0.2	67.7	64.6	1,105.4	—	R 2,429.5	R 2,429.5	—	R 2,429.5
2016	—	(s)	4.3	R 853.9	0.2	46.0	51.6	929.1	—	R 1,885.1	R 1,885.2	—	R 1,885.2
2017	—	(s)	5.0	R 1,082.0	0.2	52.4	51.1	1,027.9	—	R 2,218.5	R 2,218.5	—	R 2,218.5
2018	—	(s)	6.4	R 1,413.7	0.4	R 72.2	54.4	1,141.8	—	R 2,689.0	R 2,689.0	—	R 2,689.0
2019	—	(s)	6.2	1,293.6	0.6	R 63.0	R 53.4	1,094.1	—	R 2,510.8	R 2,510.8	—	R 2,510.8
2020	—	(s)	5.0	905.8	0.6	R 40.3	R 45.3	792.4	—	R 1,789.5	R 1,789.5	—	R 1,789.5
2021	—	(s)	6.9	R 1,107.7	0.6	R 66.1	47.4	1,181.2	—	R 2,409.9	R 2,409.9	—	R 2,409.9
2022	—	(s)	8.9	R 1,747.2	0.5	R 118.9	R 61.2	1,525.6	—	R 3,462.4	R 3,462.4	—	R 3,462.4
2023	—	(s)	7.7	1,439.1	0.2	101.0	48.4	1,401.4	—	2,997.7	2,997.7	—	2,997.7

[a] Transportation use of natural gas as vehicle fuel only.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET7. Electric power sector price and expenditure estimates, selected years, 1970-2023, North Dakota

Year	Coal	Natural gas [a]	Petroleum: Distillate fuel oil	Petroleum: Petroleum coke	Petroleum: Residual fuel oil	Petroleum: Total	Nuclear fuel	Biomass: Wood and waste [b]	Electricity imports [c]	Total energy [d]
	Prices in dollars per million Btu									
1970	0.25	0.35	1.23	—	0.90	0.96	—	—	1.92	0.29
1975	0.26	0.66	2.12	—	1.93	1.94	—	—	3.89	0.50
1980	0.56	2.47	6.07	—	—	6.07	—	—	6.94	0.97
1985	0.88	4.74	5.52	—	—	5.52	—	—	9.34	1.22
1990	0.69	3.86	5.60	—	—	5.60	—	—	8.37	0.71
1995	0.73	3.49	4.18	—	—	4.18	—	—	6.21	0.79
2000	0.72	—	6.92	—	—	6.92	—	—	16.78	0.97
2005	0.82	9.17	12.44	—	—	12.44	—	—	16.53	1.17
2006	0.88	10.12	14.86	—	—	14.86	—	—	17.32	1.25
2007	0.98	5.92	17.83	—	—	17.83	—	—	18.25	1.31
2008	1.08	10.45	23.72	—	—	23.72	—	—	18.28	1.36
2009	1.14	5.91	12.95	—	—	12.95	—	—	12.10	1.31
2010	1.25	5.53	17.58	—	—	17.58	—	—	13.31	1.48
2011	1.34	7.83	23.44	—	—	23.44	—	—	11.53	1.56
2012	1.49	5.71	23.80	—	—	23.80	—	—	9.51	1.65
2013	1.55	5.52	23.28	—	—	23.28	—	—	11.49	1.80
2014	1.53	3.69	21.20	—	—	21.20	—	—	13.31	1.80
2015	1.56	7.79	12.65	—	—	12.65	—	—	10.54	1.90
2016	1.55	2.57	9.41	—	—	9.41	—	—	8.74	1.76
2017	1.59	3.83	12.61	—	—	12.61	—	—	9.18	1.83
2018	1.55	2.83	15.56	—	—	15.56	—	—	10.74	1.72
2019	1.63	3.08	14.49	—	—	14.49	—	—	9.20	1.83
2020	1.61	2.73	10.59	—	—	10.59	—	—	8.38	2.28
2021	1.61	2.81	16.06	—	—	16.06	—	—	12.82	2.07
2022	1.67	R 3.10	25.07	—	—	25.07	—	—	19.84	R 2.96
2023	1.86	3.45	21.07	—	—	21.07	—	—	18.72	2.26
	Expenditures in million dollars									
1970	12.0	0.1	(s)	—	0.1	0.2	—	—	1.9	14.2
1975	15.4	0.1	(s)	—	0.2	0.2	—	—	15.6	31.3
1980	85.5	(s)	2.4	—	—	2.4	—	—	72.1	160.0
1985	201.1	(s)	2.4	—	—	2.4	—	—	86.2	289.6
1990	196.4	(s)	1.8	—	—	1.8	—	—	7.1	205.4
1995	218.9	(s)	2.4	—	—	2.4	—	—	16.6	237.9
2000	236.8	—	3.8	—	—	3.8	—	—	82.3	322.9
2005	274.6	(s)	5.1	—	—	5.1	—	—	122.0	401.6
2006	279.5	(s)	6.8	—	—	6.8	—	—	118.6	404.9
2007	319.2	(s)	9.9	—	—	9.9	—	—	103.4	432.5
2008	357.8	(s)	11.1	—	—	11.1	—	—	88.2	457.0
2009	373.1	(s)	6.0	—	—	6.0	—	—	55.7	434.8
2010	391.0	(s)	7.0	—	—	7.0	—	—	72.5	470.5
2011	401.8	(s)	10.9	—	—	10.9	—	—	65.8	478.5
2012	462.7	(s)	8.8	—	—	8.8	—	—	50.6	522.1
2013	471.9	2.1	8.5	—	—	8.5	—	—	76.8	559.4
2014	465.2	7.7	6.4	—	—	6.4	—	—	84.9	564.1
2015	486.0	54.9	3.6	—	—	3.6	—	—	72.6	617.0
2016	464.4	30.5	3.2	—	—	3.2	—	—	61.9	560.0
2017	480.5	28.9	5.0	—	—	5.0	—	—	67.7	582.1
2018	481.3	29.8	6.6	—	—	6.6	—	—	42.6	560.4
2019	468.2	48.6	5.7	—	—	5.7	—	—	41.1	563.7
2020	445.3	45.2	3.8	—	—	3.8	—	—	241.2	735.4
2021	445.0	46.1	6.3	—	—	6.3	—	—	130.4	627.9
2022	474.1	R 44.8	8.8	—	—	8.8	—	—	418.5	R 946.2
2023	476.7	104.2	13.1	—	—	13.1	—	—	62.1	656.1

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[c] Electricity imported from Canada and Mexico.
[d] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET1. Primary energy, electricity, and total energy price and expenditure estimates, selected years, 1970-2023, Ohio

Year	Primary energy														Electric power sector [i,k,l]	Electricity [m]	Total energy [h,i,j]
	Coal			Natural gas [a]	Petroleum							Nuclear fuel	Biomass				
	Coking coal	Steam coal	Total		Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total		Wood and waste [g,h]	Total [h,i,j,k]			
	Prices in dollars per million Btu																
1970	0.42	0.34	0.36	0.74	1.13	1.74	0.74	2.93	0.61	1.63	2.20	—	1.18	0.98	0.30	4.68	1.50
1975	1.57	1.03	1.14	1.30	2.53	3.78	2.09	4.73	2.14	3.20	3.83	—	1.44	2.00	0.98	7.94	3.06
1980	2.00	1.47	1.56	3.27	6.44	5.69	6.38	9.45	3.34	7.46	7.80	0.28	2.26	4.06	1.50	12.97	6.23
1985	2.05	1.68	1.71	5.32	7.68	10.36	6.04	9.15	4.21	8.65	8.74	1.09	2.20	4.81	1.70	16.90	8.25
1990	1.80	1.51	1.54	4.54	7.76	10.99	5.73	9.35	2.60	7.33	8.57	1.24	1.99	4.39	1.50	17.33	8.27
1995	1.57	1.42	1.43	4.59	7.13	8.57	4.02	9.30	2.70	7.60	8.26	1.00	1.51	4.27	1.38	18.37	8.55
2000	1.66	1.46	1.46	6.29	10.26	12.51	6.57	12.13	4.00	8.34	10.73	0.46	1.66	5.56	1.38	18.84	10.42
2005	3.41	1.56	1.63	11.49	16.80	18.44	12.95	18.02	6.69	11.82	16.64	0.37	4.09	8.77	1.59	20.80	15.39
2006	3.77	1.74	1.82	12.33	18.92	20.42	14.64	20.35	7.57	14.69	18.86	0.39	4.15	9.75	1.70	22.67	17.14
2007	3.77	1.75	1.84	11.41	20.28	22.83	15.93	22.73	7.37	14.59	20.58	0.41	4.41	10.18	1.76	23.26	17.77
2008	4.62	2.10	2.21	12.88	26.97	27.47	22.70	25.98	10.07	16.41	24.79	0.48	5.24	11.95	2.03	24.67	20.36
2009	5.72	2.44	2.58	10.10	17.40	23.43	12.49	19.16	6.17	15.43	18.00	0.56	4.35	9.37	2.25	26.52	16.99
2010	6.22	2.28	2.50	8.72	21.11	24.63	16.30	22.67	10.36	R 16.28	R 21.55	0.65	4.42	9.85	2.19	26.89	18.11
2011	6.56	2.51	2.77	8.08	27.38	29.21	22.59	28.76	15.55	R 19.28	R 27.43	0.69	4.90	11.91	2.47	26.56	20.43
2012	6.66	2.47	2.89	6.42	27.95	24.74	22.95	29.64	16.83	R 18.72	R 27.93	0.75	4.71	12.04	2.32	26.84	20.49
2013	5.28	2.30	2.58	6.60	27.98	25.54	22.00	28.79	16.61	R 20.83	27.60	0.80	4.91	11.63	2.30	27.08	19.88
2014	4.39	2.21	2.43	R 7.32	27.12	28.61	20.90	27.75	15.91	R 23.04	R 27.03	0.77	R 5.19	R 11.64	2.31	28.62	19.76
2015	4.10	2.17	2.40	R 5.79	18.55	19.31	11.85	19.78	10.19	R 19.26	R 19.12	0.72	R 4.01	R 9.09	1.95	29.34	R 16.57
2016	3.59	2.09	2.27	5.24	15.78	18.46	9.75	17.96	7.30	R 16.46	R 16.95	0.68	R 3.33	R 8.26	1.89	28.95	15.60
2017	3.88	1.96	2.19	6.20	18.22	23.33	12.15	19.60	9.78	17.75	18.96	0.74	R 3.37	9.21	1.94	28.96	16.70
2018	4.25	1.81	2.16	5.83	R 21.82	25.17	15.82	21.50	11.03	18.71	21.28	0.72	R 3.70	9.88	2.03	29.24	17.44
2019	5.01	1.84	2.39	5.51	20.81	20.27	14.64	20.92	10.99	R 20.30	20.61	0.67	R 3.72	9.82	1.86	28.19	16.96
2020	4.70	1.82	2.25	5.09	16.73	17.12	9.50	17.11	8.26	R 17.16	16.73	0.64	R 3.19	R 8.11	1.61	27.79	R 15.29
2021	4.13	1.71	2.11	6.66	22.43	25.99	14.61	24.12	12.38	R 20.28	23.02	0.66	R 3.95	R 10.89	2.28	28.74	R 18.48
2022	7.34	2.86	3.55	R 8.76	34.40	24.96	26.44	31.51	19.80	R 26.12	R 31.34	0.62	R 6.16	R 14.78	R 4.00	31.30	R 23.26
2023	7.87	2.77	3.85	6.22	28.92	22.12	21.13	28.03	17.75	23.80	27.38	0.62	5.83	12.71	2.12	32.50	21.65
	Expenditures in million dollars																
1970	146.6	414.6	561.2	769.2	224.5	56.3	24.4	1,637.3	17.6	248.5	2,208.5	—	9.0	3,547.9	-245.5	1,344.1	4,646.5
1975	519.3	1,326.6	1,845.8	1,243.3	621.6	129.9	70.7	2,949.3	117.1	423.5	4,312.2	—	11.5	7,412.8	-1,046.9	2,773.5	9,139.4
1980	549.5	1,837.5	2,387.0	2,887.6	1,828.0	886.1	259.2	5,623.4	122.1	909.0	9,627.7	6.4	41.7	14,950.5	-1,729.9	4,904.7	18,125.3
1985	287.8	2,092.0	2,379.8	3,944.8	1,637.3	985.4	245.3	5,225.9	33.6	890.6	9,018.0	22.6	51.1	15,457.5	-1,919.3	7,080.8	20,619.0
1990	239.0	1,953.0	2,192.0	3,391.3	1,699.6	429.3	343.5	5,425.5	20.1	935.6	8,853.6	140.0	51.7	14,710.6	-1,919.5	8,321.6	21,112.7
1995	117.2	1,856.7	1,973.8	4,071.5	1,666.8	436.2	256.2	5,623.3	12.7	906.6	8,901.8	176.8	56.9	15,180.9	-1,923.1	9,828.7	23,086.5
2000	73.3	2,018.8	2,092.2	5,601.4	2,915.0	549.6	695.0	7,651.9	22.4	1,226.8	13,060.8	81.1	84.4	20,919.8	-2,075.2	10,498.9	29,343.5
2005	175.1	2,236.5	2,411.5	9,518.5	5,236.5	882.9	1,366.6	11,663.5	58.5	1,341.2	20,549.2	57.3	91.9	32,631.3	-2,493.4	11,248.4	41,386.2
2006	235.9	2,410.2	2,646.1	9,104.8	6,071.8	891.0	1,534.9	13,120.9	63.0	1,796.3	23,477.9	67.9	94.9	35,441.6	-2,636.4	11,734.5	44,539.7
2007	238.7	2,450.8	2,689.5	9,136.1	6,787.3	759.0	1,638.5	14,506.4	40.5	1,932.3	25,663.8	67.5	106.3	37,685.8	-2,765.7	12,692.2	47,612.3
2008	295.5	2,886.7	3,182.1	10,170.1	8,377.1	827.8	2,316.9	16,128.4	77.3	2,301.8	30,029.4	87.3	140.1	43,608.9	-3,138.1	13,261.6	53,732.5
2009	314.7	2,957.8	3,272.5	7,411.8	R 4,844.1	780.2	902.4	11,754.6	27.0	1,658.9	R 19,967.3	89.4	99.2	R 30,840.4	-3,111.4	13,076.6	R 40,805.5
2010	483.2	2,909.3	3,392.6	6,742.5	R 6,259.1	900.5	532.0	13,890.7	41.0	R 1,400.3	R 23,023.5	107.1	129.1	R 33,394.8	-3,229.0	13,976.9	R 44,142.7
2011	501.1	2,881.3	3,382.4	6,576.7	R 8,188.3	1,084.9	710.0	17,128.3	46.7	R 1,556.3	R 28,714.5	106.8	146.0	R 38,926.5	-3,389.7	13,856.1	R 49,392.9
2012	675.7	2,264.9	2,940.6	5,388.4	R 8,051.8	764.4	613.0	17,592.0	20.6	R 1,575.6	R 28,617.4	134.2	138.2	R 37,218.7	-2,919.4	13,788.3	R 48,087.6
2013	555.1	2,297.9	2,853.0	R 6,027.8	R 8,208.8	864.7	586.0	17,284.6	53.1	R 1,741.6	R 28,738.9	135.4	164.0	R 37,919.2	-3,037.0	13,715.0	R 48,597.2
2014	457.1	2,110.6	2,567.7	R 7,438.3	R 8,295.1	1,026.2	609.3	16,645.5	35.0	R 1,803.6	R 28,414.6	131.3	R 174.4	R 38,726.3	-2,981.1	14,538.3	R 50,283.5
2015	422.1	1,657.1	2,079.2	R 5,675.1	R 5,603.8	621.9	375.2	12,100.5	27.4	R 1,656.1	R 20,384.9	130.1	R 128.7	R 28,397.9	-2,256.5	14,759.0	R 40,900.5
2016	340.7	1,528.8	1,869.5	R 4,931.9	R 4,575.5	618.2	337.4	11,067.6	27.9	R 1,442.8	R 18,069.4	120.1	R 104.7	R 25,095.7	-2,144.7	14,699.8	R 37,650.8
2017	373.9	1,401.0	1,774.9	R 5,845.5	R 5,363.3	787.2	376.0	12,068.7	25.1	1,356.1	R 19,976.5	136.4	R 104.4	R 27,838.3	-2,179.6	14,297.2	R 39,955.8
2018	431.6	1,117.1	1,548.7	R 6,775.7	R 6,629.2	888.8	571.8	13,121.7	26.6	1,522.0	R 22,760.0	137.6	R 115.3	R 31,340.5	-2,353.6	15,073.6	R 44,060.5
2019	512.9	904.6	1,417.6	R 6,501.7	R 6,160.4	792.2	R 473.2	12,639.8	21.1	R 1,541.6	R 21,628.3	118.8	R 115.4	R 29,781.8	-1,975.3	14,106.9	R 41,913.4
2020	390.7	859.9	1,250.7	R 5,799.9	R 4,839.4	636.7	R 298.2	8,985.6	18.1	R 1,325.7	R 16,103.8	121.2	R 99.6	R 23,375.2	-1,726.7	13,344.7	R 34,993.2
2021	388.9	826.2	1,215.1	R 7,986.2	R 6,456.3	999.7	R 592.0	13,623.9	29.1	R 1,484.6	R 23,185.6	121.1	R 120.9	R 32,628.9	-2,480.7	14,300.4	R 44,448.6
2022	610.3	1,306.0	1,916.3	R 11,621.1	R 9,724.1	1,060.3	R 1,396.6	17,559.4	47.6	R 1,992.7	R 31,780.6	109.3	R 185.5	R 45,612.7	R -4,597.2	15,772.7	R 56,788.1
2023	689.5	901.7	1,591.2	8,419.5	7,898.3	842.2	1,023.3	15,819.2	35.4	1,738.6	27,357.0	105.4	150.3	37,623.4	-2,287.7	16,063.2	51,398.9

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[l] Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
[m] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.
Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET2. Total end-use energy price and expenditure estimates, selected years, 1970-2023, Ohio

Year	Primary energy											Electricity [k]	Total energy [h,i,j]
			Petroleum							Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g,h]	Total [h,i,j]		
	Prices in dollars per million Btu												
1970	0.43	0.74	1.14	1.74	0.74	2.93	0.60	1.63	2.21	1.18	1.18	4.68	1.50
1975	1.48	1.30	2.54	3.78	2.08	4.73	2.13	3.20	3.86	1.44	2.41	7.94	3.06
1980	1.79	3.28	6.46	5.69	6.38	9.45	3.31	7.46	7.83	2.26	5.22	12.97	6.23
1985	1.79	5.32	7.70	10.36	6.04	9.15	4.18	8.65	8.76	2.39	6.51	16.90	8.25
1990	1.64	4.54	7.79	10.99	5.73	9.35	2.54	7.33	8.58	2.32	6.17	17.33	8.27
1995	1.50	4.61	7.18	8.57	4.02	9.30	2.70	7.60	8.28	1.52	6.13	18.37	8.55
2000	1.55	6.31	10.32	12.51	6.57	12.13	4.01	8.34	10.74	1.68	8.35	18.84	10.42
2005	2.86	11.57	16.86	18.44	12.95	18.02	6.69	12.96	16.79	4.19	14.02	20.80	15.39
2006	3.24	12.48	19.00	20.42	14.64	20.35	7.57	15.95	19.03	4.24	15.76	22.67	17.14
2007	3.31	11.60	20.33	22.83	15.93	22.73	7.37	15.51	20.73	4.49	16.36	23.26	17.77
2008	4.07	12.96	27.04	27.47	22.70	25.98	10.07	17.67	25.01	5.63	19.25	24.67	20.36
2009	4.90	10.43	17.45	23.43	12.49	19.16	6.17	16.86	18.16	4.67	14.53	26.52	16.99
2010	5.15	9.04	21.15	24.63	16.30	22.67	10.36	R 18.45	21.77	4.75	15.73	26.89	18.11
2011	5.50	8.56	27.44	29.21	22.59	28.76	15.55	R 21.83	R 27.71	5.26	18.74	26.56	20.43
2012	5.91	7.33	28.00	24.74	22.95	29.64	16.83	R 21.49	R 28.26	5.36	18.71	26.84	20.49
2013	4.86	7.22	28.02	25.54	22.00	28.79	16.61	R 25.03	27.99	5.57	18.00	27.08	19.88
2014	4.17	8.02	27.16	28.61	20.90	27.75	15.91	R 26.95	R 27.34	R 5.79	17.55	28.62	19.76
2015	3.99	6.82	18.59	19.31	11.85	19.78	10.19	R 22.61	R 19.36	R 4.38	R 13.30	29.34	R 16.57
2016	3.57	6.19	15.82	18.46	9.75	17.96	7.30	R 18.95	R 17.15	R 3.52	R 12.05	28.95	15.60
2017	3.91	7.20	18.25	23.33	12.15	19.60	9.78	20.46	19.15	R 3.64	13.52	28.96	16.70
2018	4.22	6.95	21.87	25.17	15.82	21.50	11.03	22.83	21.59	R 4.11	14.41	29.24	17.44
2019	4.91	7.00	20.84	20.27	14.64	20.92	10.99	R 22.82	20.78	R 4.09	14.11	28.19	16.96
2020	4.63	6.80	16.75	17.12	9.50	17.11	8.26	20.92	16.98	R 3.52	R 11.97	27.79	R 15.29
2021	4.13	8.23	22.47	25.99	14.61	24.12	12.38	R 24.48	23.32	R 4.32	R 15.80	28.74	R 18.48
2022	7.10	R 10.40	34.54	24.96	26.44	31.51	19.80	R 30.67	R 31.72	R 6.80	R 21.17	31.30	R 23.26
2023	7.73	9.24	28.94	22.12	21.13	28.03	17.75	28.08	27.70	6.09	18.80	32.50	21.65
	Expenditures in million dollars												
1970	330.7	760.6	221.1	56.3	24.4	1,637.3	14.6	248.5	2,202.1	9.0	3,302.4	1,344.1	4,646.5
1975	858.4	1,237.0	588.1	129.9	69.2	2,949.3	99.1	423.5	4,259.1	11.5	6,365.9	2,773.5	9,139.4
1980	745.6	2,873.9	1,773.3	886.1	259.2	5,623.4	108.5	909.0	9,559.4	41.7	13,220.6	4,904.7	18,125.3
1985	510.8	3,941.2	1,619.2	985.4	245.3	5,225.9	29.7	890.6	8,996.1	48.9	13,538.2	7,080.8	20,619.0
1990	432.6	3,388.1	1,685.4	429.3	343.5	5,425.5	17.5	935.6	8,836.7	51.7	12,791.1	8,321.6	21,112.7
1995	260.0	4,054.1	1,652.2	436.2	256.2	5,623.3	12.7	906.6	8,887.2	56.5	13,257.8	9,828.7	23,086.5
2000	179.9	5,551.3	2,884.2	549.6	695.0	7,651.9	22.1	1,226.8	13,029.7	83.7	18,844.6	10,498.9	29,343.5
2005	308.9	9,252.3	5,182.7	882.9	1,366.6	11,663.5	58.5	1,333.0	20,487.3	89.4	30,137.9	11,248.4	41,386.2
2006	368.2	8,920.1	6,032.1	891.0	1,534.9	13,120.9	63.0	1,782.6	23,424.5	92.4	32,805.2	11,734.5	44,539.7
2007	377.1	8,842.3	6,732.0	759.0	1,638.5	14,506.4	40.5	1,920.6	25,597.0	103.8	34,920.1	12,692.2	47,612.3
2008	472.8	9,916.6	8,314.3	827.8	2,316.9	16,128.4	77.3	2,285.9	29,950.7	130.7	40,470.9	13,261.6	53,732.5
2009	475.9	7,246.1	R 4,808.6	780.2	902.4	11,754.6	27.0	1,641.5	R 19,914.3	92.6	R 27,728.9	13,076.6	R 40,805.5
2010	641.9	6,451.1	R 6,206.0	900.5	532.0	13,890.7	41.0	R 1,383.2	R 22,953.3	119.4	R 30,165.8	13,976.9	R 44,142.7
2011	658.8	6,148.4	R 8,113.0	1,084.9	710.0	17,128.3	46.7	R 1,510.1	R 28,592.9	136.6	R 35,536.8	13,856.1	R 49,392.9
2012	815.6	4,865.0	R 7,983.2	764.4	613.0	17,592.0	20.6	R 1,520.8	R 28,494.0	124.8	R 34,299.4	13,788.3	R 48,087.6
2013	686.1	R 5,391.2	R 8,147.9	864.7	586.0	17,284.6	53.1	R 1,719.6	R 28,655.9	149.0	R 34,882.2	13,715.0	R 48,597.2
2014	586.0	R 6,683.1	R 8,214.7	1,026.2	609.3	16,645.5	35.0	R 1,789.0	R 28,319.7	R 156.5	R 35,745.2	14,538.3	R 50,283.5
2015	524.1	R 5,171.2	R 5,571.4	621.9	375.2	12,100.5	27.4	R 1,638.7	R 20,335.1	R 111.0	R 26,141.5	14,759.0	R 40,900.5
2016	405.4	R 4,430.3	R 4,547.8	618.2	337.4	11,067.6	27.9	R 1,427.7	R 18,026.7	R 88.6	R 22,951.0	14,699.8	R 37,650.8
2017	430.9	R 5,208.6	R 5,333.4	787.2	376.0	12,068.7	25.1	1,340.1	R 19,930.4	R 88.6	R 25,658.6	14,297.2	R 39,955.8
2018	482.1	R 5,710.1	R 6,587.2	888.8	571.8	13,121.7	26.6	1,498.2	R 22,694.3	R 100.4	R 28,986.9	15,073.6	R 44,060.5
2019	557.1	R 5,562.7	R 6,132.7	792.2	R 473.2	12,639.8	21.1	R 1,527.3	R 21,586.3	R 100.4	R 27,806.5	14,106.9	R 41,913.4
2020	431.3	R 5,057.6	R 4,825.0	636.7	R 298.2	8,985.6	18.1	R 1,307.0	R 16,070.7	R 88.9	R 21,648.5	13,344.7	R 34,993.2
2021	433.0	R 6,470.1	R 6,426.2	999.7	R 592.0	13,623.9	29.1	R 1,467.2	R 23,138.2	R 106.9	R 30,148.2	14,300.4	R 44,448.6
2022	658.1	R 8,545.8	R 9,599.6	1,060.3	R 1,396.6	17,559.4	47.6	R 1,975.4	R 31,638.8	R 172.9	R 41,015.5	15,772.7	R 56,788.1
2023	743.4	7,157.3	7,869.3	842.2	1,023.3	15,819.2	35.4	1,701.6	27,291.0	144.1	35,335.7	16,063.2	51,398.9

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. · Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2023, Ohio

Year	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
	Prices in dollars per million Btu									
1970	1.05	0.88	1.41	2.11	1.42	1.53	0.57	0.98	6.99	1.68
1975	2.62	1.47	2.51	4.53	2.90	2.96	1.12	1.74	10.93	3.11
1980	3.07	3.49	6.63	7.66	8.07	6.94	2.87	3.91	16.29	6.33
1985	3.00	5.79	7.55	10.09	8.21	8.34	3.24	5.98	22.49	9.68
1990	2.80	5.09	7.43	12.05	8.54	9.08	3.56	5.52	23.58	10.10
1995	2.64	5.26	6.12	9.58	6.28	7.54	2.90	5.47	25.20	10.63
2000	2.47	7.39	9.25	13.23	9.22	11.44	4.41	7.80	25.23	12.69
2005	3.83	12.46	15.34	19.74	15.45	17.52	6.91	12.85	24.93	16.78
2006	3.70	13.85	17.13	21.73	19.59	19.80	7.96	14.33	27.39	18.94
2007	3.63	12.99	19.11	23.78	22.94	21.82	8.79	13.78	28.05	18.70
2008	—	13.97	24.13	28.39	23.36	26.64	10.83	15.11	29.48	19.94
2009	—	12.18	16.34	25.00	23.58	22.33	8.13	13.11	31.27	19.22
2010	—	10.76	20.36	25.03	25.05	23.57	9.60	11.92	33.15	19.55
2011	—	10.45	27.23	29.35	28.35	28.67	11.54	12.08	33.48	19.70
2012	—	9.59	27.14	26.73	29.74	26.90	12.85	11.02	34.46	19.99
2013	—	9.12	28.15	26.68	30.40	27.17	12.58	10.50	35.20	18.97
2014	—	9.58	27.28	30.87	32.79	R 29.82	12.27	11.09	36.62	19.38
2015	—	8.89	17.86	23.60	16.93	21.64	8.45	9.83	37.51	19.31
2016	—	8.40	15.46	23.60	13.50	21.01	7.22	9.40	36.56	19.44
2017	—	9.06	17.60	28.71	16.88	25.18	8.08	R 10.36	37.00	19.82
2018	—	8.53	19.20	29.23	26.01	26.09	8.94	9.91	36.81	19.14
2019	—	8.98	18.42	24.86	22.77	R 23.06	8.60	10.20	36.28	19.06
2020	—	8.90	15.53	21.15	14.79	19.47	7.11	R 9.71	36.01	R 19.08
2021	—	10.32	19.91	27.23	23.36	25.11	R 8.53	R 11.50	37.42	R 20.75
2022	—	12.21	31.43	29.44	40.57	30.11	R 13.20	13.67	40.59	R 22.87
2023	—	12.76	28.31	27.65	36.23	27.99	12.07	14.01	45.08	24.99
	Expenditures in million dollars									
1970	21.9	414.0	76.5	31.0	24.1	131.6	1.9	569.4	531.1	1,100.5
1975	19.9	643.4	157.8	83.6	33.8	275.2	3.9	942.5	1,039.7	1,982.1
1980	8.3	1,396.3	286.8	74.2	46.5	407.5	25.2	1,837.3	1,859.9	3,697.2
1985	13.5	1,978.7	204.2	127.5	43.8	375.6	29.7	2,397.5	2,604.3	5,001.8
1990	8.8	1,632.3	205.1	191.9	30.2	427.2	35.1	2,103.5	3,049.0	5,152.4
1995	3.4	1,954.1	142.5	180.5	26.7	349.7	15.4	2,322.5	3,784.4	6,107.0
2000	1.4	2,648.2	161.4	324.0	21.9	507.3	15.5	3,172.4	4,002.2	7,174.6
2005	2.4	4,195.1	255.2	369.1	38.7	663.0	45.7	4,906.2	4,585.5	9,491.7
2006	0.9	3,917.8	218.5	385.7	40.5	644.6	46.7	4,610.1	4,800.8	9,410.8
2007	1.2	4,035.3	277.9	459.9	31.6	769.4	57.0	4,863.0	5,204.0	10,066.9
2008	—	4,453.9	320.6	577.5	16.0	914.2	78.6	5,446.7	5,371.4	10,818.1
2009	—	3,708.0	169.7	569.3	27.8	766.7	54.6	4,529.3	5,484.4	10,013.8
2010	—	3,157.6	195.7	503.6	24.4	723.8	69.0	3,950.4	6,162.0	10,112.4
2011	—	3,084.5	245.6	573.4	19.0	838.0	80.5	4,003.0	6,133.4	10,136.4
2012	—	2,486.1	200.5	405.3	7.6	613.4	74.9	3,174.4	6,148.5	9,322.9
2013	—	2,813.0	R 213.0	446.5	7.6	R 667.1	95.7	R 3,575.9	6,264.3	R 9,840.2
2014	—	3,257.0	R 220.8	563.6	17.6	R 801.9	94.5	R 4,153.4	6,598.2	R 10,751.6
2015	—	2,713.3	R 146.4	390.9	5.7	R 542.9	57.6	R 3,313.8	6,590.6	R 9,904.4
2016	—	2,310.1	R 113.3	398.4	5.7	R 517.3	R 43.1	R 2,870.5	6,551.2	R 9,421.7
2017	—	2,514.6	R 136.1	493.4	4.2	R 633.7	R 46.1	R 3,194.4	6,287.0	R 9,481.4
2018	—	2,741.2	R 165.7	552.7	7.0	R 725.4	R 61.2	R 3,527.8	6,839.8	R 10,367.6
2019	—	2,779.0	R 153.3	535.1	6.5	R 694.9	R 58.1	R 3,531.9	6,464.5	R 9,996.4
2020	—	2,590.9	R 115.2	389.4	5.1	R 509.8	R 50.0	R 3,150.6	6,457.2	R 9,607.7
2021	—	3,021.2	R 152.8	518.2	6.7	R 677.8	R 62.0	R 3,761.0	6,789.2	R 10,550.3
2022	—	3,826.0	R 251.7	582.3	10.8	R 844.9	R 120.8	R 4,791.7	7,384.1	R 12,175.8
2023	—	3,531.4	211.8	492.2	16.6	720.6	93.9	4,345.9	7,646.8	11,992.8

[a] Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2023, Ohio

Year	Primary energy										Electricity [j]	Total energy [g,h,i]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f,g]	Total [g,h,i]		
	Prices in dollars per million Btu											
1970	0.40	0.75	1.20	1.37	0.84	2.93	0.69	1.26	0.57	0.77	6.33	1.91
1975	1.31	1.31	2.33	2.74	2.48	4.73	2.20	2.73	1.12	1.51	10.10	3.53
1980	1.34	3.26	6.28	5.11	6.01	9.45	3.58	7.10	2.87	3.73	15.71	7.02
1985	1.49	5.34	6.12	9.29	8.21	9.15	4.18	7.15	3.24	5.21	20.91	10.67
1990	1.44	4.50	5.53	9.28	8.54	9.35	2.54	7.22	3.45	4.59	21.31	11.15
1995	1.44	4.74	4.30	7.70	6.28	9.30	2.69	5.81	2.76	4.68	22.04	11.57
2000	1.47	6.73	7.12	10.95	9.22	12.13	—	8.94	2.99	6.78	21.93	13.16
2005	2.34	11.18	13.60	16.28	15.45	18.02	6.69	14.61	6.58	11.09	23.24	16.53
2006	2.59	12.35	15.61	18.03	19.59	20.35	7.57	16.93	7.96	12.58	24.73	18.40
2007	2.73	11.32	17.28	19.47	22.94	22.73	7.37	18.69	6.23	11.79	25.42	18.14
2008	4.83	12.28	23.62	23.19	23.36	25.98	10.07	23.74	10.83	13.04	27.06	19.32
2009	5.22	10.01	14.18	18.55	23.58	19.16	6.17	15.56	8.13	10.43	28.30	18.35
2010	4.35	8.94	17.93	19.51	25.05	22.67	10.36	18.63	9.60	9.80	28.52	18.37
2011	4.61	8.29	24.22	22.83	28.35	28.76	15.55	24.04	11.54	9.67	28.21	18.16
2012	4.97	6.88	24.74	16.80	29.74	29.64	16.83	23.61	12.85	8.60	27.76	17.80
2013	4.70	5.99	24.50	17.90	30.40	28.79	—	23.26	12.58	7.50	27.40	16.41
2014	4.34	7.38	22.64	20.15	32.79	27.75	—	22.24	R 11.17	8.43	28.80	17.15
2015	4.29	6.05	13.35	11.28	16.93	19.78	—	R 16.38	R 6.52	7.52	29.50	R 17.00
2016	4.20	5.34	11.28	10.49	13.50	17.96	—	14.51	R 6.50	6.78	29.23	16.94
2017	5.83	5.69	13.62	14.38	16.88	19.60	—	16.68	R 7.16	7.42	29.46	17.10
2018	—	5.55	17.02	15.80	26.01	21.50	—	19.05	R 7.95	7.52	29.62	16.75
2019	—	5.60	15.66	12.05	22.77	20.92	—	17.68	R 7.81	7.40	28.47	R 16.10
2020	—	5.26	10.58	11.23	14.79	17.11	—	13.74	R 6.72	6.66	27.92	15.45
2021	—	6.18	16.85	18.37	23.36	24.12	—	20.59	R 8.06	8.44	28.57	R 16.77
2022	—	7.84	28.34	19.48	40.57	31.51	—	28.18	R 12.55	10.99	30.46	R 18.86
2023	—	7.32	21.55	15.13	36.23	28.03	—	23.79	11.51	9.93	31.52	19.11
	Expenditures in million dollars											
1970	6.5	140.0	13.0	3.9	0.7	6.2	3.6	27.4	(s)	173.9	368.9	542.8
1975	23.2	227.6	29.0	9.8	1.5	23.7	20.1	84.2	0.1	335.0	690.8	1,025.8
1980	13.7	551.1	94.8	9.6	4.4	102.2	8.5	219.5	0.6	784.9	1,250.1	2,035.0
1985	23.7	799.0	75.3	22.7	20.5	29.0	2.2	149.7	0.7	973.3	2,081.8	3,055.2
1990	18.2	671.2	61.9	28.6	9.2	52.0	0.4	152.0	3.9	846.0	2,533.6	3,379.7
1995	12.5	862.0	42.8	28.1	3.2	21.2	0.1	95.3	2.2	971.9	3,014.8	3,986.7
2000	6.8	1,247.2	72.1	51.9	6.9	33.1	—	164.0	3.4	1,421.4	3,339.1	4,760.5
2005	17.3	1,945.3	100.5	67.3	19.6	25.7	4.6	217.7	7.6	2,187.8	3,716.3	5,904.2
2006	6.2	1,885.1	138.9	47.8	17.8	47.9	1.3	253.9	7.8	2,153.1	3,893.0	6,046.1
2007	8.4	1,885.2	176.5	71.7	10.9	53.5	(s)	312.7	11.1	2,217.4	4,174.9	6,392.3
2008	31.2	2,133.5	266.7	93.9	5.5	50.4	0.5	417.0	12.0	2,593.6	4,367.4	6,961.0
2009	30.5	1,673.6	201.4	77.5	3.8	31.2	(s)	313.9	7.7	2,025.7	4,380.3	6,405.9
2010	26.2	1,446.8	252.1	75.1	3.8	31.9	0.4	363.2	9.0	1,845.1	4,528.1	6,373.3
2011	23.7	1,380.0	320.7	88.4	2.0	14.3	0.5	426.0	10.4	1,840.1	4,534.9	6,375.0
2012	17.4	1,034.4	359.1	48.5	1.1	14.8	(s)	423.5	10.1	1,485.4	4,428.6	5,914.0
2013	18.2	1,044.7	R 319.5	64.0	0.8	14.8	—	R 399.2	11.5	R 1,473.7	4,367.5	R 5,841.2
2014	15.3	1,431.9	R 258.8	75.1	1.7	13.6	—	R 349.2	R 11.4	1,807.9	4,618.3	R 6,426.1
2015	9.4	1,079.6	R 158.0	35.9	0.6	303.6	—	R 498.1	R 8.2	R 1,595.4	4,743.2	R 6,338.5
2016	5.1	875.2	R 134.0	37.9	1.0	275.7	—	R 448.5	R 6.7	R 1,335.6	4,762.1	R 6,097.6
2017	0.1	959.1	R 164.3	55.1	0.6	305.5	—	R 525.5	R 7.4	R 1,492.2	4,640.0	R 6,132.2
2018	—	1,059.6	R 209.8	68.1	1.2	340.3	—	R 619.4	R 8.1	R 1,687.1	4,768.8	R 6,455.9
2019	—	1,059.2	R 194.0	57.3	1.2	333.4	—	R 586.0	R 7.4	R 1,652.6	4,469.9	R 6,122.5
2020	—	912.2	R 133.4	64.6	0.7	274.8	—	R 473.5	R 10.0	R 1,395.7	4,116.1	R 5,511.9
2021	—	1,125.1	R 199.5	107.0	1.0	390.6	—	R 698.2	R 12.0	R 1,835.3	4,385.4	R 6,220.7
2022	—	R 1,524.2	R 345.7	129.1	1.7	524.7	—	R 1,001.2	R 18.5	R 2,544.0	4,789.7	R 7,333.7
2023	—	1,307.7	245.5	81.0	2.6	468.3	—	797.4	16.9	2,122.1	4,984.4	7,106.4

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[g] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[j] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: Expenditure totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2023, Ohio

Year	Primary energy												Electricity [i]	Total energy [f,g,h]
	Coal			Natural gas [a]	Petroleum						Biomass	Total [f,g,h]		
	Coking coal	Steam coal	Total		Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e,f]			
	Prices in dollars per million Btu													
1970	0.42	0.40	0.41	0.57	0.77	1.44	2.93	0.55	1.44	1.26	1.69	0.60	2.90	0.84
1975	1.57	1.31	1.47	1.08	2.31	2.98	4.73	2.17	2.84	2.66	1.69	1.59	5.61	2.16
1980	2.00	1.34	1.79	3.01	5.45	5.56	9.45	3.31	6.83	5.80	1.67	3.46	9.73	4.37
1985	2.05	1.49	1.78	4.66	6.39	10.43	9.15	4.18	7.79	8.41	1.67	4.68	11.75	6.20
1990	1.80	1.44	1.63	3.92	6.14	10.33	9.35	2.54	6.22	6.59	1.12	3.75	11.81	5.72
1995	1.57	1.44	1.50	3.79	4.76	7.83	9.30	2.69	6.51	6.38	1.26	3.80	12.21	6.00
2000	1.66	1.47	1.55	4.93	8.15	11.65	12.13	4.02	7.29	7.76	1.44	4.92	12.82	7.03
2005	3.41	2.34	2.89	10.75	14.62	17.63	18.02	6.69	10.96	12.96	2.66	9.84	14.96	11.15
2006	3.77	2.59	3.25	11.16	16.69	19.50	20.35	7.57	13.66	15.18	2.53	10.66	16.43	12.05
2007	3.77	2.73	3.33	10.25	18.57	21.94	22.73	7.37	13.11	15.06	2.41	10.15	16.89	11.85
2008	4.62	3.19	4.02	12.22	25.41	26.23	25.98	10.07	15.34	17.92	2.70	12.16	18.16	13.68
2009	5.72	3.61	4.88	8.36	15.23	20.33	19.16	6.17	13.88	14.49	2.49	9.33	19.70	12.03
2010	6.22	3.23	5.19	7.15	18.82	25.53	22.67	10.36	R 14.84	R 17.30	2.43	9.00	18.75	11.46
2011	6.56	3.50	5.54	6.56	25.38	30.83	28.76	15.55	R 17.44	R 21.76	2.53	R 9.69	17.93	R 11.83
2012	6.66	3.70	5.93	5.30	25.58	24.19	29.64	16.83	R 17.46	R 21.27	2.39	R 9.06	18.27	R 11.36
2013	5.28	3.51	4.87	5.81	24.98	26.18	28.79	16.61	R 21.21	R 23.21	2.29	R 9.37	18.23	R 11.48
2014	4.39	3.47	4.17	6.66	23.37	27.92	27.75	15.92	R 22.97	R 23.74	2.76	R 9.47	19.84	R 11.81
2015	4.10	3.54	3.98	5.00	15.00	15.64	19.78	10.25	R 18.63	R 17.20	2.62	R 7.46	20.57	R 10.53
2016	3.59	3.45	3.57	4.48	12.07	13.95	17.96	7.30	R 15.24	R 14.20	2.14	R 6.52	20.45	R 9.82
2017	3.88	4.12	3.91	6.25	14.59	18.75	19.60	9.78	16.48	16.21	1.99	7.89	20.27	10.87
2018	4.25	4.01	4.22	6.16	17.71	22.19	21.50	11.09	18.80	18.83	1.88	8.35	20.55	11.17
2019	5.01	3.95	4.91	5.82	16.69	15.47	20.92	11.30	R 18.91	R 17.97	2.07	8.08	19.20	R 10.69
2020	4.70	4.06	4.63	5.54	12.30	13.96	17.11	8.36	R 17.11	15.11	1.73	R 7.46	18.05	9.93
2021	4.13	4.06	4.13	7.45	17.38	27.52	24.12	12.50	R 20.08	20.26	2.06	9.31	19.21	11.59
2022	7.34	5.04	7.10	R 10.15	28.45	21.59	31.51	19.98	R 25.68	R 26.24	R 2.27	R 13.01	21.83	R 15.07
2023	7.87	6.30	7.73	7.22	23.40	17.94	28.03	17.94	23.63	23.07	2.31	10.55	20.61	12.91
	Expenditures in million dollars													
1970	146.6	155.3	301.9	206.6	50.5	20.7	29.7	7.9	177.6	286.3	7.1	801.8	443.4	1,245.2
1975	519.3	296.0	815.2	366.0	149.7	34.7	37.7	73.0	306.0	601.1	7.5	1,789.8	1,042.0	2,831.7
1980	549.5	174.1	723.6	926.5	396.8	797.9	57.3	95.1	712.4	2,059.5	15.8	3,725.5	1,792.6	5,518.1
1985	287.8	185.8	473.5	1,163.5	257.8	819.7	51.6	27.5	666.6	1,823.3	18.6	3,479.3	2,391.2	5,870.5
1990	239.0	166.5	405.5	1,084.4	213.5	193.1	47.8	17.0	702.5	1,174.0	12.6	2,677.3	2,736.5	5,413.8
1995	117.2	126.9	244.1	1,237.3	161.9	214.9	58.1	11.7	683.3	1,129.8	38.9	2,650.1	3,026.6	5,676.7
2000	73.3	98.3	171.7	1,653.3	230.6	164.8	44.6	21.9	976.8	1,438.7	64.8	3,328.5	3,154.7	6,483.2
2005	175.1	114.2	289.2	3,105.5	511.4	423.8	219.7	53.9	996.5	2,205.2	36.1	5,636.0	2,942.2	8,578.2
2006	235.9	125.2	361.1	3,111.1	575.0	433.5	257.4	61.7	1,361.7	2,689.3	37.9	6,199.4	3,036.3	9,235.7
2007	238.7	128.8	367.4	2,919.1	631.4	207.5	225.8	40.3	1,478.0	2,582.9	35.7	5,905.2	3,308.6	9,213.7
2008	295.5	146.2	441.7	3,327.2	928.8	109.7	203.9	76.8	1,846.6	3,165.8	40.2	6,974.8	3,517.7	10,492.5
2009	314.7	130.8	445.5	1,863.9	464.2	109.3	145.4	26.9	1,229.4	1,975.2	30.3	4,314.9	3,207.7	7,522.6
2010	483.2	132.5	615.7	1,846.1	655.0	317.5	161.1	40.6	R 1,000.0	R 2,174.2	41.4	R 4,677.4	3,283.7	R 7,961.1
2011	501.1	134.0	635.1	1,683.1	761.3	418.3	228.6	46.2	R 1,085.1	R 2,539.4	45.7	R 4,903.4	3,185.6	R 8,089.0
2012	675.7	122.5	798.2	1,343.6	886.8	307.8	235.6	20.6	R 1,132.7	R 2,583.4	39.7	R 4,765.0	3,208.8	R 7,973.8
2013	555.1	112.7	667.8	1,530.4	855.7	350.0	234.8	53.1	R 1,328.6	R 2,822.1	41.8	R 5,062.1	3,080.3	R 8,142.4
2014	457.1	113.5	570.6	1,988.5	872.8	381.9	141.1	35.0	R 1,373.7	R 2,804.4	50.6	R 5,414.1	3,318.2	R 8,732.3
2015	422.1	92.6	514.7	1,372.4	531.3	190.5	158.7	27.1	R 1,226.3	R 2,133.9	45.2	R 4,066.3	3,422.2	R 7,488.5
2016	340.7	59.6	400.3	1,235.4	409.2	176.5	142.5	27.9	R 1,051.1	R 1,807.2	38.8	R 3,481.7	3,383.3	R 6,865.0
2017	373.9	56.9	430.8	1,729.0	534.6	236.1	157.3	25.1	984.1	1,937.1	35.1	4,132.0	3,367.2	7,499.2
2018	431.6	50.4	482.1	1,903.8	659.8	263.0	176.1	26.2	1,129.6	2,254.8	31.2	4,671.8	3,462.4	8,134.2
2019	512.9	44.1	557.1	1,718.2	510.1	188.5	169.0	20.0	R 1,162.9	R 2,050.5	34.9	R 4,360.7	3,170.0	R 7,530.7
2020	390.7	40.6	431.3	1,540.4	450.1	178.3	139.1	17.7	R 985.8	R 1,771.2	28.9	R 3,771.9	2,769.0	R 6,540.9
2021	388.9	44.1	433.0	2,310.0	599.0	365.4	194.3	28.5	R 1,102.7	R 2,290.0	32.9	R 5,065.9	3,123.0	R 8,189.0
2022	610.3	47.8	658.1	R 3,161.1	991.0	339.6	264.1	46.6	R 1,521.9	R 3,163.1	R 33.6	R 7,015.9	3,596.0	R 10,611.9
2023	689.5	53.8	743.4	2,295.4	795.8	261.8	236.8	34.8	1,333.7	2,662.9	33.2	5,734.9	3,430.2	9,165.1

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[i] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET6. Transportation sector energy price and expenditure estimates, selected years, 1970-2023, Ohio

Year	Primary energy											Electricity [g]	Total energy [f]
			Petroleum										
	Coal	Natural gas[a]	Aviation gasoline	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Lubricants	Motor gasoline [e]	Residual fuel oil	Total	Total [f]		
	Prices in dollars per million Btu												
1970	0.40	—	2.17	1.26	1.37	0.74	5.08	2.93	0.64	2.66	2.66	4.05	2.66
1975	1.31	—	3.45	2.76	2.74	2.08	7.48	4.73	1.61	4.38	4.38	7.63	4.39
1980	—	—	9.02	6.95	5.11	6.38	14.36	9.45	3.02	8.87	8.87	13.51	8.87
1985	—	—	9.99	8.28	10.60	6.04	18.18	9.15	—	8.93	8.93	22.10	8.93
1990	—	3.04	9.32	8.44	11.44	5.73	20.61	9.35	2.70	9.04	9.04	16.45	9.04
1995	—	4.27	8.36	8.01	12.90	4.02	21.75	9.30	2.72	8.77	8.77	17.14	8.77
2000	—	5.45	10.87	10.83	16.13	6.57	23.20	12.13	3.23	11.32	11.32	16.01	11.32
2005	—	13.90	18.56	17.37	22.10	12.95	35.22	18.02	—	17.45	17.45	26.46	17.45
2006	—	14.41	22.31	19.51	23.85	14.64	43.88	20.35	7.46	19.72	19.71	29.69	19.72
2007	—	8.15	23.70	20.72	26.05	15.93	47.16	22.73	7.90	21.69	21.68	29.25	21.68
2008	—	7.81	27.23	27.59	29.99	22.70	55.12	25.98	—	26.27	26.26	31.29	26.26
2009	—	4.43	20.32	18.02	24.82	12.49	56.07	19.16	—	18.62	18.61	31.45	18.62
2010	—	4.33	25.19	21.72	27.14	16.30	58.80	22.67	—	22.42	22.42	25.27	22.42
2011	—	8.07	31.64	27.88	30.37	22.59	69.54	28.76	—	28.55	28.55	19.47	28.55
2012	—	9.79	33.04	28.61	23.20	22.95	72.11	29.64	—	29.40	29.40	20.45	29.39
2013	—	R 9.62	32.71	28.66	24.51	22.00	69.42	28.79	—	28.79	28.78	19.41	28.78
2014	—	R 10.72	33.16	27.94	27.13	20.90	69.44	27.75	11.38	27.84	27.83	25.73	27.83
2015	—	R 10.79	24.86	19.39	16.60	11.85	67.28	19.78	6.13	19.70	19.70	22.52	19.70
2016	—	R 10.40	21.62	16.60	15.66	9.75	65.78	17.96	4.45	17.57	17.56	23.25	17.56
2017	—	R 10.43	24.13	19.08	19.91	12.15	67.25	19.60	—	19.47	19.47	21.97	19.47
2018	—	R 10.30	27.04	22.85	20.53	15.82	72.37	21.50	7.86	21.92	R 21.91	21.48	R 21.91
2019	—	R 11.52	25.57	21.71	18.05	14.64	74.92	20.92	7.41	21.19	21.19	20.01	21.19
2020	—	R 11.52	22.34	17.83	18.04	9.50	75.34	17.11	5.40	17.33	17.32	19.67	17.32
2021	—	R 11.50	28.86	23.59	26.92	14.61	81.25	24.12	8.16	23.80	23.78	21.71	23.78
2022	—	R 12.73	36.02	35.95	26.81	26.44	97.37	31.51	13.73	R 32.75	32.68	25.03	32.68
2023	—	14.05	32.62	30.21	21.97	21.13	105.48	28.03	11.35	28.51	28.48	17.31	28.48
	Expenditures in million dollars												
1970	0.4	—	7.8	81.2	0.7	24.4	38.3	1,601.5	3.1	1,756.8	1,757.3	0.7	1,758.0
1975	0.1	—	8.5	251.5	1.9	69.2	73.6	2,887.8	6.0	3,298.5	3,298.6	1.2	3,299.8
1980	—	—	21.5	994.9	4.4	259.2	124.1	5,463.9	4.8	6,872.9	6,872.9	2.1	6,875.0
1985	—	—	16.6	1,081.8	15.4	245.3	143.0	5,145.3	—	6,647.5	6,688.1	3.4	6,691.5
1990	—	0.2	11.2	1,204.9	15.7	343.5	182.4	5,325.7	0.1	7,083.5	7,164.3	2.5	7,166.8
1995	—	0.8	9.9	1,305.0	12.7	256.2	183.7	5,544.0	1.0	7,312.5	7,313.3	2.9	7,316.2
2000	—	2.6	11.9	2,420.1	9.0	695.0	209.3	7,574.2	0.2	10,919.7	10,922.4	2.9	10,925.2
2005	—	6.4	10.3	4,315.6	22.7	1,366.6	268.0	11,418.1	—	17,401.3	17,407.8	4.3	17,412.1
2006	—	6.0	37.3	5,099.7	24.0	1,534.9	325.3	12,815.5	(s)	19,836.7	19,842.7	4.4	19,847.1
2007	—	2.6	39.2	5,646.3	19.8	1,638.5	361.0	14,227.0	0.2	21,932.0	21,934.6	4.8	21,939.3
2008	—	2.1	26.0	6,798.3	46.7	2,316.9	391.8	15,874.1	—	25,453.8	25,455.9	5.1	25,460.9
2009	—	0.6	22.2	R 3,973.3	24.1	902.4	358.3	11,578.0	—	R 16,858.4	R 16,859.0	4.2	R 16,863.2
2010	—	0.7	19.0	R 5,103.2	4.4	532.0	335.9	13,697.7	—	R 19,692.2	R 19,692.8	3.1	R 19,696.0
2011	—	0.7	22.4	R 6,785.4	4.8	710.0	381.5	16,885.4	—	R 24,789.6	R 24,790.3	2.3	R 24,792.5
2012	—	0.9	20.8	R 6,536.8	2.9	613.0	358.6	17,341.6	—	R 24,873.6	R 24,874.5	2.4	R 24,876.9
2013	—	R 3.0	18.3	R 6,759.7	4.1	586.0	364.3	17,035.0	—	R 24,767.5	R 24,770.5	2.9	R 24,773.4
2014	—	R 5.7	17.7	R 6,862.4	5.6	609.3	378.3	16,490.8	(s)	R 24,364.1	R 24,369.8	3.6	R 24,373.5
2015	—	R 6.0	9.9	R 4,735.7	4.6	375.2	396.2	11,638.2	0.2	R 17,160.1	R 17,166.1	3.0	R 17,169.1
2016	—	R 9.6	8.7	R 3,891.3	5.5	337.4	361.3	10,649.4	(s)	R 15,253.7	R 15,263.3	3.2	R 15,266.5
2017	—	R 5.9	11.2	R 4,498.3	2.6	376.0	340.0	11,606.0	—	R 16,834.1	R 16,840.0	2.9	R 16,843.0
2018	—	R 5.5	11.6	R 5,551.8	5.0	571.8	348.9	12,605.3	0.4	R 19,094.8	R 19,100.2	2.6	R 19,102.9
2019	—	R 6.3	12.2	5,275.3	11.3	R 473.2	R 344.5	12,137.4	1.1	R 18,255.0	R 18,261.2	2.6	R 18,263.8
2020	—	R 14.1	9.3	R 4,126.2	4.4	R 298.2	R 306.0	8,571.7	0.4	R 13,316.2	R 13,330.3	2.3	R 13,332.7
2021	—	R 13.7	13.4	R 5,474.9	9.0	R 592.0	R 343.4	13,039.0	0.6	R 19,472.2	R 19,485.9	2.7	R 19,488.6
2022	—	R 34.4	17.3	R 8,011.2	9.3	R 1,396.6	R 423.7	16,770.6	1.0	R 26,629.6	R 26,664.0	2.9	R 26,666.9
2023	—	22.7	14.9	6,616.1	7.2	1,023.3	333.9	15,114.1	0.7	23,110.1	23,132.8	1.8	23,134.6

[a] Transportation use of natural gas as vehicle fuel only.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET7. Electric power sector price and expenditure estimates, selected years, 1970-2023, Ohio

Year	Coal	Natural gas [a]	Petroleum: Distillate fuel oil	Petroleum: Petroleum coke	Petroleum: Residual fuel oil	Petroleum: Total	Nuclear fuel	Biomass: Wood and waste [b]	Electricity imports [c]	Total energy [d]
	Prices in dollars per million Btu									
1970	0.29	0.39	0.75	—	0.69	0.72	—	0.65	—	0.30
1975	0.95	1.19	2.35	—	2.18	2.29	—	0.92	—	0.98
1980	1.48	2.90	5.72	—	3.58	5.11	0.28	1.74	—	1.50
1985	1.69	5.09	6.09	—	4.43	5.71	1.09	0.79	—	1.70
1990	1.52	2.55	5.40	—	3.12	4.84	1.24	—	—	1.50
1995	1.42	2.28	3.91	—	—	3.91	1.00	0.70	—	1.38
2000	1.46	4.85	6.69	—	3.35	6.63	0.46	0.67	—	1.38
2005	1.53	9.26	12.78	0.78	—	4.20	0.37	2.28	16.53	1.59
2006	1.70	7.73	11.72	1.31	—	3.85	0.39	2.32	17.32	1.70
2007	1.71	7.63	16.16	1.35	—	5.57	0.41	2.42	18.25	1.76
2008	2.05	10.44	20.65	1.46	—	5.66	0.48	2.66	—	2.03
2009	2.39	4.26	12.71	1.72	—	4.10	0.56	2.20	12.10	2.25
2010	2.24	4.87	16.75	1.54	—	4.93	0.65	2.40	—	2.19
2011	2.47	4.49	22.32	4.01	—	8.16	0.69	2.44	—	2.47
2012	2.41	2.98	23.03	4.10	—	7.55	0.75	2.21	—	2.32
2013	2.25	3.82	22.88	1.48	—	4.73	0.80	2.26	—	2.30
2014	2.16	4.14	23.55	1.22	—	6.20	0.77	2.73	—	2.31
2015	2.12	2.28	13.54	1.29	—	3.13	0.72	2.62	—	1.95
2016	2.06	2.23	11.42	1.23	—	2.90	0.68	2.54	8.74	1.89
2017	1.92	2.90	14.15	1.48	—	3.54	0.74	2.40	9.18	1.94
2018	1.77	3.12	16.35	1.51	—	3.59	0.72	2.22	10.74	2.03
2019	1.79	2.43	15.44	1.58	—	3.88	0.67	2.33	—	1.86
2020	1.77	1.87	11.10	1.27	—	2.06	0.64	1.80	—	1.61
2021	1.66	3.67	16.45	1.31	—	3.14	0.66	2.39	—	2.28
2022	2.82	R 6.10	26.09	1.46	—	8.52	0.62	2.69	—	R 4.00
2023	2.67	2.18	23.56	2.97	—	4.83	0.62	2.93	—	2.12
	Expenditures in million dollars									
1970	230.5	8.6	3.4	—	3.0	6.4	—	(s)	—	245.5
1975	987.4	6.3	35.2	—	18.0	53.2	—	(s)	—	1,046.9
1980	1,641.4	13.7	54.7	—	13.6	68.3	6.4	(s)	—	1,729.9
1985	1,869.0	3.6	18.0	—	3.9	22.0	22.6	2.2	—	1,919.3
1990	1,759.5	3.2	14.2	—	2.7	16.9	140.0	—	—	1,919.5
1995	1,713.8	17.4	14.6	—	—	14.6	176.8	0.4	—	1,923.1
2000	1,912.3	50.1	30.8	—	0.3	31.1	81.1	0.7	—	2,075.2
2005	2,102.6	266.3	53.8	8.2	—	62.0	57.3	2.5	2.8	2,493.4
2006	2,277.9	184.8	39.7	13.7	—	53.4	67.9	2.5	49.9	2,636.4
2007	2,312.4	293.9	55.3	11.6	—	66.9	67.5	2.5	22.5	2,765.7
2008	2,709.3	253.5	62.8	15.9	—	78.7	87.3	9.3	—	3,138.1
2009	2,796.6	165.7	35.6	17.4	—	53.0	89.4	6.6	0.2	3,111.4
2010	2,750.7	291.4	53.1	17.1	—	70.2	107.1	9.7	—	3,229.0
2011	2,723.5	428.3	75.4	46.2	—	121.6	106.8	9.4	—	3,389.7
2012	2,125.0	523.3	68.6	54.8	—	123.4	134.2	13.4	—	2,919.4
2013	2,167.0	636.6	60.9	22.0	—	83.0	135.4	15.0	—	3,037.0
2014	1,981.8	755.2	80.3	14.6	—	94.9	131.3	17.9	—	2,981.1
2015	1,555.1	503.9	32.4	17.4	—	49.8	130.1	17.6	—	2,256.5
2016	1,464.2	501.6	27.7	15.1	—	42.7	120.1	16.1	0.1	2,144.7
2017	1,344.0	636.9	29.9	16.1	—	46.0	136.4	15.8	0.5	2,179.6
2018	1,066.7	1,065.6	42.0	23.7	—	65.7	137.6	14.9	3.0	2,353.6
2019	860.5	939.0	27.7	14.3	—	41.9	118.8	15.0	—	1,975.3
2020	819.3	742.3	14.4	18.7	—	33.1	121.2	10.7	—	1,726.7
2021	782.1	1,516.1	30.1	17.3	—	47.4	121.1	14.0	—	2,480.7
2022	1,258.2	R 3,075.4	124.5	17.3	—	141.8	109.3	12.6	—	R 4,597.2
2023	847.9	1,262.2	29.0	37.0	—	66.0	105.4	6.2	—	2,287.7

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[c] Electricity imported from Canada and Mexico.
[d] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET1. Primary energy, electricity, and total energy price and expenditure estimates, selected years, 1970-2023, Oklahoma

	Primary energy														Electric power sector [i,k,l]	Electricity [m]	Total energy [h,i,j]
	Coal				Petroleum								Biomass				
	Coking coal	Steam coal	Total	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Nuclear fuel	Wood and waste [g,h]	Total [h,i,j,k]			
Year	Prices in dollars per million Btu																
1970	—	0.65	0.65	0.35	0.90	1.41	0.72	2.82	0.50	1.11	2.02	—	0.76	1.04	0.19	5.76	1.85
1975	—	0.96	0.96	0.75	2.36	2.93	2.01	4.52	1.58	2.46	3.59	—	1.45	1.91	0.61	6.64	3.08
1980	—	1.24	1.24	1.96	6.77	6.20	6.34	9.79	3.23	5.90	8.17	—	2.34	4.06	1.63	11.80	6.49
1985	—	1.69	1.69	3.41	6.73	7.63	5.87	8.76	3.41	7.20	7.81	—	2.87	4.70	2.30	17.23	7.75
1990	—	1.40	1.40	2.80	7.40	6.86	5.93	9.00	2.46	7.82	8.06	—	1.32	4.21	2.06	16.09	7.38
1995	—	1.03	1.03	2.93	6.61	7.85	4.12	8.35	2.18	8.25	7.54	—	1.44	3.80	1.42	16.36	7.18
2000	—	0.97	0.97	5.31	9.45	11.37	6.61	11.13	3.91	11.40	10.18	—	1.69	5.75	2.09	17.26	9.97
2005	—	1.04	1.04	8.98	15.98	17.33	13.13	17.08	6.59	11.93	16.11	—	3.02	9.21	3.79	20.12	14.83
2006	—	1.13	1.13	8.29	18.07	19.23	14.84	19.42	7.68	15.31	18.37	—	2.95	9.97	3.41	21.45	16.46
2007	—	1.20	1.20	8.09	19.86	20.66	16.39	22.05	8.27	14.55	20.25	—	2.99	10.51	3.59	21.41	17.07
2008	—	1.35	1.35	10.10	26.01	24.31	23.60	24.96	12.23	20.52	25.00	—	4.57	12.79	4.21	22.93	20.39
2009	—	1.70	1.70	7.52	16.42	19.01	13.06	17.93	7.87	23.56	17.25	—	3.39	9.16	2.61	20.39	15.92
2010	—	1.76	1.76	6.73	20.22	21.05	16.44	21.58	11.49	R 23.96	R 20.73	—	3.35	R 10.18	3.12	22.30	R 17.08
2011	—	1.80	1.80	6.27	26.10	22.96	22.67	27.44	15.41	R 30.18	R 26.48	—	3.73	R 11.65	2.91	22.91	R 19.68
2012	—	2.01	2.01	5.30	26.64	18.91	23.06	28.02	16.68	R 28.26	R 26.87	—	3.38	R 11.81	2.48	22.16	R 20.13
2013	—	2.07	2.07	5.90	26.57	19.31	22.36	27.33	16.45	R 29.56	R 26.50	—	3.42	R 11.98	2.89	23.23	R 19.67
2014	—	2.02	2.02	6.94	25.66	23.98	20.59	26.13	15.73	R 32.88	R 25.62	—	4.00	R 12.58	3.18	24.15	R 19.85
2015	—	2.02	2.02	5.44	17.69	15.36	12.01	18.76	10.13	R 27.50	R 18.10	—	R 3.20	R 9.34	2.47	23.35	R 15.95
2016	—	1.97	1.97	3.79	14.99	13.68	9.72	16.68	7.22	R 25.22	R 15.73	—	R 2.61	R 7.97	2.40	23.15	R 13.94
2017	—	1.89	1.89	R 4.38	17.15	17.62	12.10	18.72	9.66	26.39	17.73	—	R 2.77	9.43	2.59	24.26	15.28
2018	—	1.84	1.84	R 3.69	20.70	18.19	15.64	20.76	10.96	30.99	20.52	—	R 2.82	9.76	2.42	23.91	16.12
2019	—	1.85	1.85	R 3.46	19.72	15.31	14.37	19.79	11.16	R 30.90	19.55	—	R 2.90	R 9.47	2.25	23.24	R 15.46
2020	—	1.77	1.77	R 3.18	16.18	13.94	9.10	16.24	8.26	R 28.31	16.01	—	R 2.54	7.78	2.16	22.60	13.38
2021	—	1.82	1.82	R 9.16	21.26	20.71	14.48	22.93	12.36	R 29.87	R 21.65	—	R 2.99	13.23	9.00	25.17	R 17.41
2022	—	2.70	2.70	8.42	R 32.77	22.84	25.89	30.20	19.74	R 38.54	R 30.79	—	R 3.99	R 16.75	6.27	29.68	23.62
2023	—	2.47	2.47	4.66	27.42	19.42	20.75	26.78	17.73	37.53	26.54	—	3.88	12.98	2.88	27.47	20.30
	Expenditures in million dollars																
1970	—	0.1	0.1	152.7	28.7	50.2	17.2	481.9	2.2	51.2	631.3	—	1.9	786.1	-46.8	311.7	1,050.9
1975	—	0.5	0.5	392.2	128.1	101.2	43.2	913.4	5.7	122.7	1,314.3	—	5.5	1,712.4	-190.0	509.6	2,032.0
1980	—	132.4	132.4	1,209.5	478.2	198.3	170.5	2,038.2	13.1	279.9	3,178.1	—	6.2	4,526.2	-727.3	1,211.3	5,010.2
1985	—	400.2	400.2	1,633.3	733.2	213.9	190.6	1,941.1	2.4	276.3	3,357.6	—	11.4	5,404.0	-988.5	2,141.2	6,556.8
1990	—	390.1	390.1	1,328.7	666.6	80.2	259.8	1,842.9	7.5	258.3	3,115.3	—	16.7	4,850.7	-928.2	2,317.1	6,239.7
1995	—	379.7	379.7	1,347.9	641.0	101.3	124.9	1,840.6	3.8	253.5	2,965.1	—	25.8	4,718.5	-712.9	2,294.6	6,300.3
2000	—	368.8	368.8	2,368.5	1,553.8	241.0	255.5	2,449.6	3.4	272.9	4,776.2	—	27.1	7,540.7	-1,147.5	2,897.4	9,290.6
2005	—	412.2	412.2	4,398.1	2,604.5	654.5	444.1	4,005.0	9.1	397.6	8,114.7	—	59.2	12,984.3	-2,394.5	3,658.0	14,247.8
2006	—	432.7	432.7	4,393.2	3,350.1	989.5	476.5	4,396.9	11.4	475.9	9,700.3	—	60.4	14,586.5	-2,241.1	3,984.4	16,329.9
2007	—	447.9	447.9	4,557.8	3,878.6	282.2	491.9	5,146.7	16.4	535.0	10,350.9	—	56.4	15,412.9	-2,351.0	3,997.9	17,059.8
2008	—	529.9	529.9	5,958.8	5,278.5	280.2	748.1	5,674.1	31.3	504.8	12,517.1	—	25.6	19,031.3	-2,815.4	4,364.9	20,580.9
2009	—	635.5	635.5	4,249.1	R 2,791.5	194.1	477.4	4,015.5	14.3	535.7	R 8,028.4	—	31.4	R 12,944.5	-1,710.3	3,760.0	R 14,994.2
2010	—	607.7	607.7	3,916.8	R 3,532.3	241.6	594.4	5,003.4	37.3	R 534.6	R 9,943.7	—	64.8	R 14,532.9	-1,972.0	4,362.9	R 16,923.8
2011	—	681.3	681.3	3,500.1	R 4,617.8	245.4	818.3	5,978.2	55.5	R 571.0	R 12,286.2	—	70.2	R 16,537.8	-1,865.3	4,636.6	R 19,309.1
2012	—	659.0	659.0	3,102.3	R 4,713.7	165.1	863.3	6,411.0	63.3	R 630.1	R 12,846.6	—	71.6	R 16,679.5	-1,590.6	4,442.0	R 19,530.9
2013	—	696.0	696.0	R 3,146.0	R 4,510.0	201.6	827.0	6,144.5	52.9	R 610.3	R 12,346.4	—	78.3	R 16,266.7	-1,677.8	4,629.3	R 19,218.2
2014	—	680.0	680.0	R 3,457.8	R 4,817.6	255.9	875.1	6,243.8	47.4	R 601.1	R 12,841.0	—	R 83.9	R 17,062.6	-1,716.0	4,944.3	R 20,290.9
2015	—	567.0	567.0	R 2,917.6	R 3,147.2	148.3	489.5	4,398.2	19.8	R 616.7	R 8,819.8	—	R 59.8	R 12,364.2	-1,323.3	4,761.0	R 15,801.9
2016	—	437.4	437.4	R 2,110.3	R 2,617.7	130.9	394.7	3,964.2	18.5	R 498.9	R 7,624.8	—	R 55.2	R 10,227.6	-1,206.4	4,735.4	R 13,756.6
2017	—	374.1	374.1	R 2,241.0	R 3,435.6	190.1	525.0	4,333.0	30.6	481.7	R 8,996.0	—	R 53.9	R 11,665.1	-1,107.2	4,879.2	R 15,437.1
2018	—	315.4	315.4	R 2,377.5	R 3,966.8	226.2	R 693.3	4,912.3	25.2	517.5	R 10,341.3	—	R 62.0	R 13,096.2	-1,213.5	5,140.6	R 17,023.3
2019	—	173.4	173.4	R 2,325.3	R 3,530.3	205.1	R 579.1	4,611.4	26.4	R 540.7	R 9,492.9	—	R 59.1	R 12,050.6	-1,013.0	5,012.3	R 16,050.0
2020	—	125.3	125.3	R 2,105.6	R 2,566.2	178.0	R 312.7	3,454.9	12.1	R 458.8	R 6,982.6	—	R 58.3	R 9,271.7	-915.8	4,676.2	R 13,032.2
2021	—	240.1	240.1	R 5,222.6	R 3,770.4	264.5	R 644.6	5,217.6	32.8	R 482.6	R 10,412.5	—	R 66.6	R 15,941.7	-3,615.1	5,411.8	R 17,738.4
2022	—	288.0	288.0	R 5,059.1	R 5,907.7	291.8	R 1,178.1	6,813.6	53.5	R 657.2	R 14,901.9	—	R 89.9	R 20,339.0	-2,504.9	6,867.6	R 24,701.7
2023	—	157.6	157.6	3,180.9	4,841.0	221.5	984.0	6,115.1	39.9	564.7	12,766.2	—	78.0	16,182.7	-1,239.0	6,316.0	21,259.7

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[l] Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
[m] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET2. Total end-use energy price and expenditure estimates, selected years, 1970-2023, Oklahoma

Year	Primary energy											Electricity [k]	Total energy [h,i,j]
			Petroleum							Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g,h]	Total [h,i,j]		
	Prices in dollars per million Btu												
1970	0.70	0.53	0.90	1.41	0.72	2.82	0.50	1.11	2.02	0.76	1.44	5.76	1.85
1975	0.96	0.95	2.36	2.93	2.01	4.52	1.59	2.46	3.59	1.45	2.61	6.64	3.08
1980	1.42	2.24	6.78	6.20	6.34	9.79	3.23	5.90	8.17	2.34	5.68	11.80	6.49
1985	1.79	3.76	6.73	7.63	5.87	8.76	3.39	7.20	7.81	2.87	6.12	17.23	7.75
1990	1.30	2.68	7.40	6.86	5.93	9.00	2.38	7.82	8.07	1.32	5.59	16.09	7.38
1995	1.36	3.31	6.61	7.85	4.12	8.35	2.37	8.25	7.55	1.44	5.43	16.36	7.18
2000	1.61	5.92	9.46	11.37	6.61	11.13	3.91	11.40	10.18	1.69	8.37	17.26	9.97
2005	1.61	9.96	15.98	17.33	13.13	17.08	6.56	11.93	16.11	3.02	13.60	20.12	14.83
2006	1.88	10.53	18.08	19.23	14.84	19.42	7.68	15.31	18.37	2.95	15.31	21.45	16.46
2007	1.95	9.83	19.86	20.66	16.39	22.05	8.47	14.55	20.28	2.99	16.08	21.41	17.07
2008	2.13	12.23	26.01	24.31	23.60	24.96	12.23	20.52	25.00	4.59	19.81	22.93	20.39
2009	3.58	11.57	16.42	19.01	13.06	17.93	7.87	23.56	17.26	3.39	14.84	20.39	15.92
2010	2.97	8.88	20.23	21.05	16.44	21.58	11.49	R 23.96	R 20.73	3.35	R 15.80	22.30	R 17.08
2011	3.20	8.02	26.11	22.96	22.67	27.44	15.41	R 30.18	R 26.48	3.73	R 18.84	22.91	R 19.68
2012	3.25	8.25	26.64	18.91	23.06	28.02	16.68	R 28.26	R 26.87	3.38	R 19.60	22.16	R 20.13
2013	3.56	7.67	26.57	19.31	22.36	27.33	16.45	R 29.56	R 26.50	3.42	R 18.76	23.23	R 19.67
2014	3.45	8.43	25.66	23.98	20.59	26.13	15.73	R 32.88	R 25.62	4.01	R 18.77	24.15	R 19.85
2015	3.16	7.88	17.69	15.36	12.01	18.76	10.13	R 27.50	R 18.10	3.21	R 14.03	23.35	R 15.95
2016	3.04	4.94	14.99	13.68	9.72	16.68	7.22	R 25.22	R 15.73	R 2.61	R 11.53	23.15	R 13.94
2017	3.03	R 5.42	R 17.15	17.62	12.10	18.72	9.66	26.39	17.73	2.78	13.05	24.26	15.28
2018	3.49	R 4.73	20.70	18.19	15.64	20.76	10.96	30.99	20.52	R 2.83	R 14.13	23.91	16.12
2019	3.91	R 4.71	19.73	15.31	14.37	19.79	11.16	R 30.90	19.55	R 2.91	R 13.42	23.24	R 15.46
2020	4.90	R 4.26	16.20	13.94	9.10	16.24	8.26	R 28.31	16.01	R 2.54	10.89	22.60	13.38
2021	4.73	R 6.18	21.27	20.71	14.48	22.93	12.36	R 29.87	21.65	R 2.99	15.34	25.17	R 17.41
2022	5.07	R 9.30	32.78	22.84	25.89	30.20	19.74	R 38.54	R 30.80	R 4.01	R 21.90	29.68	23.62
2023	6.12	6.66	27.43	19.42	20.75	26.78	17.73	37.53	26.54	3.89	18.29	27.47	20.30
	Expenditures in million dollars												
1970	0.1	106.2	28.5	50.2	17.2	481.9	2.0	51.2	631.0	1.9	739.2	311.7	1,050.9
1975	0.5	203.1	127.5	101.2	43.2	913.4	5.4	122.7	1,313.4	5.5	1,522.4	509.6	2,032.0
1980	8.9	607.5	476.4	198.3	170.5	2,038.2	13.1	279.9	3,176.3	6.2	3,798.9	1,211.3	5,010.2
1985	32.8	1,015.0	730.7	213.9	190.6	1,941.1	2.2	276.3	3,354.9	11.4	4,415.6	2,141.2	6,556.8
1990	16.5	776.4	665.4	80.2	259.8	1,842.9	6.4	258.3	3,113.0	16.7	3,922.6	2,317.1	6,239.7
1995	45.1	971.2	640.8	101.3	124.9	1,840.6	2.5	253.5	2,963.5	25.8	4,005.7	2,294.6	6,300.3
2000	22.8	1,569.7	1,551.2	241.0	255.5	2,449.6	3.4	272.9	4,773.6	27.1	6,393.2	2,897.4	9,290.6
2005	24.8	2,392.9	2,602.9	654.5	444.1	4,005.0	8.9	397.6	8,112.9	59.2	10,589.8	3,658.0	14,247.8
2006	28.4	2,560.0	3,346.5	989.5	476.5	4,396.9	11.4	475.9	9,696.7	60.4	12,345.5	3,984.4	16,329.9
2007	30.1	2,639.8	3,873.1	282.2	491.9	5,146.7	6.6	535.0	10,335.6	56.4	13,061.9	3,997.9	17,059.8
2008	31.1	3,644.3	5,276.4	280.2	748.1	5,674.1	31.3	504.8	12,515.0	25.5	16,216.0	4,364.9	20,580.9
2009	43.1	3,133.2	R 2,789.6	194.1	477.4	4,015.5	14.3	535.7	R 8,026.5	31.4	R 11,234.3	3,760.0	R 14,994.2
2010	36.8	2,518.1	R 3,529.8	241.6	594.4	5,003.4	37.3	R 534.6	R 9,941.2	64.8	R 12,560.9	4,362.9	R 16,923.8
2011	37.8	2,282.1	R 4,614.0	245.4	818.3	5,978.2	55.5	R 571.0	R 12,282.4	70.2	R 14,672.5	4,636.6	R 19,309.1
2012	37.5	2,136.0	R 4,711.0	165.1	863.3	6,411.0	63.3	R 630.1	R 12,843.8	71.6	R 15,088.9	4,442.0	R 19,530.9
2013	43.4	R 2,123.6	R 4,507.6	201.6	827.0	6,144.5	52.9	R 610.3	R 12,344.0	77.9	R 14,588.9	4,629.3	R 19,218.2
2014	45.9	R 2,379.0	R 4,814.9	255.9	875.1	6,243.8	47.4	R 601.1	R 12,838.3	R 83.3	R 15,346.6	4,944.3	R 20,290.9
2015	36.4	R 2,126.7	R 3,145.9	148.3	489.5	4,398.2	19.8	R 616.7	R 8,818.4	R 59.4	R 11,040.9	4,761.0	R 15,801.9
2016	34.1	R 1,309.8	R 2,615.5	130.9	394.7	3,964.2	18.5	R 498.9	R 7,622.6	R 54.7	R 9,021.2	4,735.4	R 13,756.6
2017	26.8	R 1,484.1	R 3,433.3	190.1	525.0	4,333.0	30.6	481.7	R 8,993.7	R 53.4	R 10,557.9	4,879.2	R 15,437.1
2018	24.5	R 1,458.4	R 3,963.9	226.2	R 693.3	4,912.3	25.2	517.5	R 10,338.4	R 61.4	R 11,882.7	5,140.6	R 17,023.3
2019	19.3	R 1,469.9	R 3,527.5	205.1	R 579.1	4,611.4	26.4	R 540.7	R 9,490.0	R 58.5	R 11,037.7	5,012.3	R 16,050.0
2020	18.2	R 1,299.8	R 2,563.7	178.0	R 312.7	3,454.9	12.1	R 458.8	R 6,980.1	R 57.9	R 8,356.0	4,676.2	R 13,032.2
2021	16.8	R 1,837.4	R 3,764.3	264.5	R 644.6	5,217.6	32.8	R 482.6	R 10,406.4	R 66.0	R 12,326.6	5,411.8	R 17,738.4
2022	22.9	R 2,828.2	R 5,900.1	291.8	R 1,178.1	6,813.6	53.5	R 657.2	R 14,894.3	R 88.7	R 17,834.1	6,867.6	R 24,701.7
2023	20.4	2,084.3	4,836.3	221.5	984.0	6,115.1	39.9	564.7	12,761.4	77.5	14,943.7	6,316.0	21,259.7

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. · Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2023, Oklahoma

Year	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
	Prices in dollars per million Btu									
1970	0.90	0.81	0.89	1.57	1.41	1.57	0.71	0.97	7.42	2.21
1975	1.58	1.22	2.22	3.13	2.88	3.12	1.39	1.62	8.22	3.16
1980	2.54	2.46	6.60	7.29	7.95	7.29	3.57	2.86	13.50	6.38
1985	2.83	4.49	3.73	7.78	6.78	7.52	4.04	4.76	19.37	9.99
1990	2.41	4.70	7.37	8.27	8.24	8.27	3.53	4.91	19.30	11.27
1995	2.24	5.48	6.10	7.76	4.95	7.72	2.87	5.54	19.99	11.60
2000	—	7.31	8.99	11.18	9.13	11.11	4.37	7.76	20.59	13.65
2005	2.45	11.33	15.09	17.08	15.27	17.07	6.83	11.85	23.31	17.70
2006	3.73	12.97	17.29	18.90	19.41	18.90	7.87	13.59	25.06	19.77
2007	2.94	11.72	19.37	20.49	22.01	20.48	8.70	12.84	25.16	19.01
2008	—	11.91	23.72	24.02	23.14	24.02	10.72	13.16	26.64	19.74
2009	—	11.03	16.04	18.79	23.36	18.79	8.05	11.75	24.88	18.30
2010	—	10.79	19.36	21.60	24.82	21.60	9.50	11.90	26.78	19.47
2011	—	10.02	26.97	23.01	28.09	23.06	11.42	11.36	27.75	20.12
2012	—	10.75	26.88	20.13	29.46	20.18	12.71	11.74	27.86	20.96
2013	—	9.38	27.89	19.87	30.11	R 19.92	12.45	10.48	28.35	19.46
2014	—	9.73	26.95	25.60	32.41	25.61	12.14	11.26	29.41	20.22
2015	—	9.79	17.65	16.97	16.73	16.97	8.37	10.46	29.72	20.52
2016	—	10.08	15.27	15.28	13.34	15.28	7.15	10.58	29.88	21.42
2017	—	10.93	17.40	18.94	16.68	18.94	8.00	11.80	31.10	22.39
2018	—	8.96	18.97	19.53	25.70	19.53	8.85	10.01	30.19	20.30
2019	—	9.11	18.27	17.37	22.50	17.37	8.51	9.96	29.91	R 20.00
2020	—	8.84	15.83	15.62	14.61	15.63	7.04	R 9.55	29.65	R 20.01
2021	—	10.03	20.09	22.20	23.08	22.19	8.45	R 11.28	32.24	R 22.10
2022	—	R 14.29	29.56	24.72	40.09	24.74	13.07	R 15.42	36.47	R 26.75
2023	—	14.52	27.06	22.03	35.81	22.06	11.95	15.21	35.40	26.00
	Expenditures in million dollars									
1970	0.1	65.1	(s)	34.8	0.4	35.2	1.7	102.1	184.6	286.6
1975	(s)	97.3	0.2	67.0	0.4	67.5	3.7	168.6	258.7	427.2
1980	0.4	188.5	0.6	48.8	0.9	50.3	3.9	243.1	566.8	809.9
1985	(s)	348.3	1.9	60.0	1.2	63.1	8.7	420.1	951.6	1,371.7
1990	(s)	315.0	(s)	40.1	0.5	40.6	6.1	361.7	1,124.5	1,486.2
1995	0.1	382.3	0.4	35.8	0.1	36.3	7.1	425.8	1,113.0	1,538.8
2000	—	492.8	0.1	110.8	3.1	114.0	5.3	612.1	1,379.8	1,991.9
2005	(s)	692.9	0.1	123.0	0.5	123.6	8.5	824.9	1,694.7	2,519.6
2006	(s)	706.6	0.1	143.1	1.0	144.2	8.7	859.5	1,854.3	2,713.7
2007	(s)	721.9	3.4	194.1	1.0	198.4	10.6	931.0	1,833.7	2,764.7
2008	—	815.9	0.2	196.6	0.4	197.2	14.6	1,027.6	1,987.2	3,014.9
2009	—	709.5	0.3	144.1	0.6	144.9	17.3	871.7	1,836.9	2,708.6
2010	—	727.6	0.3	177.5	0.7	178.5	21.9	928.0	2,164.3	3,092.3
2011	—	633.5	2.0	163.5	0.5	166.0	25.6	825.0	2,313.0	3,138.1
2012	—	544.5	1.1	114.4	0.2	115.6	23.8	683.9	2,168.3	2,852.2
2013	—	641.9	1.0	148.5	0.2	149.7	30.4	822.0	2,244.4	3,066.4
2014	—	697.4	0.6	191.0	0.3	191.8	30.0	919.2	2,343.2	3,262.4
2015	—	608.2	0.1	117.9	(s)	118.1	13.0	739.3	2,293.6	3,032.9
2016	—	534.6	0.4	98.0	(s)	98.4	8.5	641.5	2,323.6	2,965.0
2017	—	582.2	0.2	132.4	0.1	132.7	8.1	723.0	2,317.0	3,040.0
2018	—	622.9	0.2	154.4	(s)	154.7	R 14.6	R 792.2	2,484.0	3,276.2
2019	—	638.4	0.3	145.5	0.1	145.8	14.5	798.7	2,429.7	R 3,228.5
2020	—	553.2	4.3	124.6	0.1	128.9	R 15.4	R 697.5	2,350.1	R 3,047.6
2021	—	658.6	0.5	178.7	0.1	179.2	R 19.2	R 856.9	2,612.4	R 3,469.4
2022	—	R 904.9	0.7	207.0	0.1	207.8	R 37.3	R 1,150.1	3,170.1	R 4,320.3
2023	—	887.3	0.6	160.2	0.2	161.0	29.0	1,077.4	2,877.1	3,954.5

[a] Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2023, Oklahoma

Year	Primary energy										Electricity [j]	Total energy [g,h,i]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f,g]	Total [g,h,i]		
	Prices in dollars per million Btu											
1970	0.45	0.51	0.82	1.10	0.62	2.82	0.47	1.16	0.71	0.61	5.50	1.68
1975	0.94	0.94	2.12	2.48	2.37	4.52	1.46	2.55	1.39	1.24	6.73	2.95
1980	1.39	2.30	6.31	5.47	6.42	9.79	3.42	7.10	3.57	2.74	11.91	6.11
1985	1.79	4.32	5.99	6.79	6.78	8.76	—	6.80	4.04	4.70	18.02	10.66
1990	1.30	3.84	5.47	5.26	8.24	9.00	2.38	6.23	3.53	4.21	16.65	10.52
1995	1.35	4.42	4.28	7.67	4.95	8.35	2.37	5.69	2.87	4.47	16.52	10.63
2000	—	6.38	7.01	10.90	9.13	11.13	—	9.32	4.37	6.60	17.64	12.51
2005	1.61	10.69	13.65	16.09	15.27	17.08	—	15.30	6.83	11.05	20.51	16.47
2006	1.88	11.78	15.78	17.86	19.41	19.42	—	17.22	7.87	12.25	21.52	17.85
2007	1.95	10.63	17.33	19.29	22.01	22.05	—	18.89	8.70	11.54	21.49	17.23
2008	—	11.15	23.69	22.97	23.14	24.96	—	23.74	10.72	12.69	23.09	18.65
2009	—	10.25	13.94	18.37	23.36	17.93	—	15.34	8.05	10.89	19.80	15.91
2010	—	9.48	17.66	19.33	24.82	21.58	—	18.65	9.50	10.65	21.82	16.97
2011	—	8.68	23.99	22.61	28.09	27.44	—	24.09	11.42	10.47	22.26	17.38
2012	—	8.67	24.54	16.64	29.46	28.02	—	23.40	12.71	10.73	21.45	17.27
2013	—	7.77	24.19	17.73	30.11	27.33	—	22.95	12.45	9.51	22.76	17.01
2014	—	7.95	22.55	19.91	32.41	26.13	—	22.26	12.14	9.61	23.71	17.46
2015	—	7.76	13.33	11.14	16.73	18.76	—	15.37	8.37	9.30	22.49	16.70
2016	—	7.37	11.16	10.36	13.34	16.68	—	13.25	7.15	R 8.75	22.46	R 16.71
2017	—	8.09	13.56	14.21	16.68	18.72	—	15.53	8.00	9.82	23.76	17.84
2018	—	6.86	16.93	15.62	25.70	20.76	—	18.34	8.85	8.81	23.65	17.01
2019	—	7.06	15.47	11.90	22.50	19.79	—	16.40	8.51	R 8.81	23.40	R 16.46
2020	—	6.73	10.45	11.09	14.61	16.24	8.26	12.82	7.04	8.01	22.93	R 15.97
2021	—	7.77	16.65	18.15	23.08	22.93	—	19.57	8.45	R 10.09	25.49	R 18.51
2022	—	R 11.28	28.01	19.25	40.09	30.20	—	27.25	R 4.35	14.30	30.30	R 23.18
2023	—	11.28	21.32	14.95	35.81	26.78	—	22.46	4.18	13.13	27.36	21.32
	Expenditures in million dollars											
1970	(s)	22.9	0.5	4.6	0.8	3.4	0.6	9.8	(s)	32.8	82.9	115.7
1975	(s)	39.1	5.0	9.9	1.4	6.3	1.8	24.5	0.1	63.7	156.5	220.2
1980	0.8	108.4	11.6	6.9	0.5	15.5	0.6	35.1	0.1	144.4	365.8	510.2
1985	0.1	179.8	25.5	9.8	0.8	15.6	—	51.7	0.2	231.8	719.9	951.7
1990	(s)	145.9	19.9	4.8	0.6	17.7	1.2	44.2	0.7	190.7	776.2	966.9
1995	0.3	177.7	6.7	6.6	0.1	1.6	(s)	15.2	1.0	194.1	752.9	947.0
2000	—	277.3	9.9	20.3	1.7	2.2	—	34.0	0.9	312.2	962.3	1,274.5
2005	(s)	433.3	20.0	22.9	0.8	12.3	—	56.0	1.4	490.7	1,223.3	1,714.0
2006	0.1	431.9	26.7	25.6	0.9	12.4	—	65.6	1.5	499.1	1,336.2	1,835.3
2007	(s)	446.9	47.4	27.1	1.0	24.8	—	100.2	1.7	548.8	1,366.5	1,915.3
2008	—	470.5	84.0	30.9	0.5	24.8	—	140.1	2.2	612.9	1,498.6	2,111.4
2009	—	438.6	59.7	21.4	0.4	15.9	—	97.4	2.4	538.5	1,261.4	1,799.9
2010	—	408.6	66.4	34.5	0.4	17.6	—	119.0	2.8	530.4	1,415.0	1,945.4
2011	—	361.1	74.2	35.1	0.6	20.7	—	130.7	3.3	495.1	1,489.9	1,985.0
2012	—	323.1	97.3	20.6	0.3	22.8	—	141.1	3.2	467.4	1,461.1	1,928.5
2013	—	356.1	R 82.1	27.7	0.2	24.6	—	R 134.6	3.7	R 494.4	1,541.2	R 2,035.6
2014	—	388.1	R 83.4	36.7	0.3	21.5	—	R 141.9	R 3.6	R 533.5	1,654.3	2,187.9
2015	—	340.9	R 64.4	17.3	0.1	90.6	—	R 172.3	R 1.7	514.9	1,588.1	2,103.0
2016	—	286.1	R 61.1	17.9	(s)	79.8	—	R 158.8	R 1.3	R 446.2	1,585.7	2,032.0
2017	—	319.3	R 80.4	24.6	(s)	81.7	—	R 186.7	R 1.3	507.3	1,661.8	2,169.1
2018	—	333.0	R 54.3	35.6	(s)	92.2	—	R 182.1	R 1.9	R 517.0	1,712.9	R 2,229.9
2019	—	355.3	R 73.6	28.2	(s)	88.3	—	R 190.2	R 1.8	R 547.3	1,603.4	R 2,150.8
2020	—	294.3	R 47.6	28.6	(s)	73.0	0.3	R 149.5	R 3.1	R 446.9	1,463.1	R 1,909.9
2021	—	349.8	R 65.8	48.0	(s)	104.2	—	R 218.1	R 3.7	R 571.5	1,739.5	R 2,311.1
2022	—	R 530.8	R 114.6	47.1	0.1	168.3	—	R 330.1	R 6.6	R 867.5	2,296.4	R 3,163.9
2023	—	521.1	81.5	31.6	0.1	125.2	—	238.5	6.3	765.8	2,158.3	2,924.1

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[g] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[j] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: Expenditure totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2023, Oklahoma

Year	Primary energy												Electricity [i]	Total energy [f,g,h]
	Coal			Natural gas [a]	Petroleum						Biomass	Total [f,g,h]		
	Coking coal	Steam coal	Total		Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e,f]			
	Prices in dollars per million Btu													
1970	—	—	—	0.25	0.54	1.16	2.82	0.53	0.78	0.86	1.58	0.53	3.13	0.77
1975	—	0.94	0.94	0.72	2.09	2.69	4.52	1.65	2.05	2.18	1.58	1.40	4.29	1.72
1980	—	1.39	1.39	2.11	5.68	5.96	9.79	3.22	4.79	5.33	1.44	3.28	9.31	3.94
1985	—	1.79	1.79	3.23	6.24	7.62	8.76	3.39	5.67	6.42	1.44	4.29	13.33	5.34
1990	—	1.30	1.30	1.70	5.84	5.86	9.00	2.38	5.52	5.80	0.92	2.57	10.65	3.60
1995	—	1.35	1.35	2.24	4.85	7.80	8.35	2.37	5.79	5.98	1.17	2.81	11.00	3.79
2000	—	1.61	1.61	5.20	7.93	11.59	11.13	3.91	8.25	8.85	1.43	5.54	11.98	6.61
2005	—	1.61	1.61	9.14	14.32	17.43	17.08	6.56	8.49	13.57	2.72	9.73	14.97	10.57
2006	—	1.88	1.88	9.35	16.36	19.32	19.42	7.68	10.43	16.22	2.62	10.91	15.99	11.66
2007	—	1.95	1.95	8.92	18.42	21.73	22.05	8.47	10.23	14.79	2.53	9.55	15.87	10.57
2008	—	2.13	2.13	12.59	24.65	25.98	24.96	12.23	13.89	20.08	2.18	13.41	17.28	14.04
2009	—	3.58	3.58	12.13	14.69	20.13	17.93	7.87	17.48	16.29	1.71	12.07	14.13	12.43
2010	—	2.97	2.97	7.98	18.59	19.75	21.58	11.49	R 18.58	R 18.38	2.39	R 9.15	15.68	R 10.26
2011	—	3.20	3.20	7.16	25.14	22.79	27.44	15.41	R 23.22	R 23.66	2.54	R 9.32	16.00	R 10.48
2012	—	3.25	3.25	7.41	25.34	16.35	28.02	16.68	R 22.32	R 23.61	2.34	R 10.29	14.91	R 11.10
2013	—	3.56	3.56	6.92	24.74	17.52	27.33	16.45	R 23.72	R 23.96	2.19	R 10.00	16.09	R 11.07
2014	—	3.45	3.45	7.99	23.09	19.88	26.13	15.73	R 26.48	R 23.75	2.76	R 10.93	17.13	R 12.06
2015	—	3.16	3.16	7.18	14.82	10.41	18.76	10.13	R 21.64	R 17.62	2.67	R 8.78	15.68	R 10.09
2016	—	3.04	3.04	2.80	11.93	9.57	16.68	7.22	R 18.80	R 14.47	2.29	R 5.02	14.71	R 6.79
2017	—	3.03	3.03	3.16	14.42	13.43	18.72	9.66	19.68	15.79	2.43	6.05	15.89	7.76
2018	—	3.49	3.49	2.58	17.50	14.82	20.76	10.96	23.99	19.02	2.27	6.05	15.66	7.79
2019	—	3.91	3.91	2.42	16.49	11.09	19.79	11.16	R 24.39	18.65	2.32	5.54	14.85	7.40
2020	—	4.90	4.90	2.22	12.16	10.27	16.24	8.26	R 21.55	R 16.11	1.96	4.16	13.51	R 6.03
2021	—	4.73	4.73	4.40	17.17	17.27	22.93	12.36	R 21.84	R 18.69	2.23	R 7.07	16.13	R 8.90
2022	—	5.07	5.07	7.13	28.10	18.31	30.20	19.74	R 29.29	R 27.89	R 2.53	R 10.88	20.40	R 12.83
2023	—	6.12	6.12	3.21	23.14	13.98	26.78	17.73	29.02	24.45	2.64	7.08	18.35	9.37
	Expenditures in million dollars													
1970	—	—	—	18.1	6.3	8.7	7.6	1.2	30.9	54.8	0.2	73.1	44.2	117.4
1975	—	0.4	0.4	66.6	49.3	19.7	10.4	3.2	91.2	173.7	1.7	242.5	94.5	337.0
1980	—	7.8	7.8	310.6	122.5	137.7	18.4	12.5	195.8	486.9	2.2	807.5	278.6	1,086.1
1985	—	32.7	32.7	486.9	261.5	139.9	45.0	2.2	185.4	634.1	2.6	1,156.3	469.7	1,626.0
1990	—	16.5	16.5	315.5	122.1	32.6	39.4	5.2	150.9	350.1	9.9	692.0	416.5	1,108.4
1995	—	44.7	44.7	410.8	80.9	56.0	51.4	2.5	146.6	337.4	17.7	810.6	428.7	1,239.3
2000	—	22.8	22.8	798.5	154.0	107.3	38.8	3.4	148.1	451.6	21.0	1,293.9	555.4	1,849.2
2005	—	24.7	24.7	1,264.1	287.0	503.5	141.0	8.9	244.2	1,184.7	49.4	2,522.9	740.0	3,262.9
2006	—	28.2	28.2	1,418.5	360.2	815.2	169.4	11.4	267.2	1,623.4	50.2	3,120.4	794.0	3,914.4
2007	—	30.1	30.1	1,468.5	437.7	56.4	143.9	6.6	330.0	974.7	44.1	2,517.4	797.7	3,315.1
2008	—	31.1	31.1	2,355.4	590.8	44.0	139.9	31.3	284.1	1,090.2	8.7	3,485.4	879.1	4,364.5
2009	—	43.1	43.1	1,982.5	178.9	22.2	101.1	14.3	314.1	630.6	11.7	2,668.0	661.7	3,329.6
2010	—	36.8	36.8	1,379.9	279.7	27.6	91.1	37.3	R 342.8	R 778.6	40.0	R 2,235.3	783.5	R 3,018.9
2011	—	37.8	37.8	1,284.6	369.6	44.4	117.9	55.5	R 354.7	R 942.1	41.4	R 2,305.9	833.7	R 3,139.6
2012	—	37.5	37.5	1,266.0	654.6	28.0	118.3	63.3	R 422.7	R 1,286.8	44.6	R 2,634.9	812.6	R 3,447.6
2013	—	43.4	43.4	1,122.5	645.6	22.2	127.5	52.9	R 414.4	R 1,262.5	43.8	R 2,472.2	843.7	R 3,315.9
2014	—	45.9	45.9	1,288.8	764.1	24.0	95.1	47.4	R 405.7	R 1,336.2	49.8	R 2,720.7	946.8	R 3,667.5
2015	—	36.4	36.4	1,172.9	323.4	9.8	84.3	19.8	R 416.9	R 854.2	44.7	R 2,108.2	879.3	R 2,987.5
2016	—	34.1	34.1	484.9	277.7	11.1	80.7	18.5	R 315.8	R 703.7	44.9	R 1,267.7	826.1	R 2,093.7
2017	—	26.8	26.8	567.7	547.9	14.3	91.2	30.6	302.9	986.8	43.9	1,625.3	900.3	2,525.6
2018	—	24.5	24.5	487.5	607.1	24.0	102.6	25.2	335.1	1,094.1	44.9	1,651.0	943.7	2,594.7
2019	—	19.3	19.3	460.3	430.5	24.5	91.6	26.4	R 363.4	R 936.3	42.1	R 1,458.0	979.1	R 2,437.1
2020	—	18.2	18.2	437.5	168.2	17.8	75.1	11.9	R 298.7	R 571.6	39.4	R 1,066.7	863.1	R 1,929.8
2021	—	16.8	16.8	813.6	490.9	30.6	105.0	32.8	R 299.1	R 958.4	43.1	R 1,831.9	1,059.9	R 2,891.8
2022	—	22.9	22.9	1,366.0	811.8	29.1	144.4	53.5	R 422.9	R 1,461.8	R 44.8	R 2,895.5	1,401.0	R 4,296.5
2023	—	20.4	20.4	655.0	652.7	23.7	118.9	39.9	379.3	1,214.5	42.2	1,932.1	1,280.6	3,212.7

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[i] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET6. Transportation sector energy price and expenditure estimates, selected years, 1970-2023, Oklahoma

Year	Primary energy											Electricity [g]	Total energy [f]
	Coal	Natural gas[a]	Petroleum								Total [f]		
			Aviation gasoline	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Lubricants	Motor gasoline [e]	Residual fuel oil	Total			
	Prices in dollars per million Btu												
1970	—	—	2.17	1.11	1.10	0.72	5.08	2.82	0.46	2.44	2.44	—	2.44
1975	0.94	—	3.45	2.61	2.48	2.01	7.48	4.52	1.79	4.11	4.11	—	4.11
1980	—	—	9.02	7.30	5.47	6.34	14.36	9.79	—	9.12	9.12	—	9.12
1985	—	—	9.99	7.15	8.05	5.87	18.18	8.76	—	8.28	8.28	—	8.28
1990	—	—	9.32	8.00	7.42	5.93	20.61	9.00	—	8.54	8.54	—	8.54
1995	—	2.32	8.36	7.04	12.36	4.12	21.75	8.35	—	7.83	7.83	—	7.83
2000	—	1.60	10.87	9.70	15.58	6.61	23.20	11.13	—	10.34	10.32	—	10.32
2005	—	11.28	18.56	16.24	21.01	13.13	35.22	17.08	—	16.65	16.65	—	16.65
2006	—	16.13	22.31	18.33	22.65	14.84	43.88	19.42	—	18.89	18.89	—	18.89
2007	—	12.47	23.70	20.11	24.84	16.39	47.16	22.05	—	21.14	21.14	—	21.14
2008	—	10.64	27.23	26.25	28.79	23.60	55.12	24.96	—	25.66	25.65	—	25.65
2009	—	9.38	20.32	16.63	23.62	13.06	56.07	17.93	—	17.35	17.34	—	17.34
2010	—	7.94	25.19	20.45	25.94	16.44	58.80	21.58	—	20.98	20.97	—	20.97
2011	—	10.67	31.64	26.24	29.17	22.67	69.54	27.44	—	26.84	26.83	—	26.83
2012	—	8.84	33.04	26.92	22.00	23.06	72.11	28.02	—	27.45	27.44	—	27.44
2013	—	R 8.69	32.71	26.97	23.31	22.36	69.42	27.33	—	27.01	27.00	—	27.00
2014	—	R 9.68	33.16	26.30	25.93	20.59	69.44	26.13	—	25.91	25.90	—	25.90
2015	—	R 9.74	24.86	18.25	15.39	12.01	67.28	18.76	—	18.25	18.24	—	18.24
2016	—	R 7.53	21.62	15.63	14.46	9.72	65.78	16.68	—	15.95	15.94	—	15.94
2017	—	R 8.92	24.13	17.96	18.71	12.10	67.25	18.72	—	18.06	R 18.03	—	R 18.03
2018	—	R 8.88	27.04	21.50	19.28	15.64	72.37	20.76	—	20.79	R 20.74	—	R 20.74
2019	—	R 8.81	25.57	20.43	15.69	14.37	74.92	19.79	—	19.79	19.74	—	19.74
2020	—	R 8.79	22.34	16.78	14.65	9.10	75.34	16.24	—	16.11	R 16.08	—	R 16.08
2021	—	R 8.55	28.86	22.20	23.53	14.48	81.25	22.93	—	22.07	R 22.01	—	R 22.01
2022	—	R 11.19	36.02	33.83	23.42	25.89	97.37	30.20	—	31.39	31.28	—	31.28
2023	—	11.92	32.62	28.43	18.58	20.75	105.48	26.78	—	26.98	26.91	—	26.91
	Expenditures in million dollars												
1970	—	—	4.9	21.7	2.2	17.2	14.1	470.9	0.2	531.2	531.2	—	531.2
1975	(s)	—	5.4	73.0	4.5	43.2	24.4	896.7	0.5	1,047.7	1,047.7	—	1,047.7
1980	—	—	14.9	341.7	4.9	170.5	67.7	2,004.2	—	2,604.0	2,604.0	—	2,604.0
1985	—	—	11.0	441.8	4.1	190.6	78.0	1,880.6	—	2,606.1	2,607.5	—	2,607.5
1990	—	—	6.9	523.4	2.8	259.8	99.5	1,785.8	—	2,678.2	2,678.2	—	2,678.2
1995	—	0.5	6.5	552.8	2.8	124.9	100.1	1,787.6	—	2,574.7	2,575.2	—	2,575.2
2000	—	1.1	5.9	1,387.2	2.6	255.5	114.1	2,408.6	—	4,173.9	4,175.0	—	4,175.0
2005	—	2.6	6.0	2,295.8	5.0	444.1	146.1	3,851.6	—	6,748.7	6,751.3	—	6,751.3
2006	—	2.9	29.5	2,959.5	5.6	476.5	177.4	4,215.1	—	7,863.5	7,866.4	—	7,866.4
2007	—	2.6	6.1	3,384.6	4.6	491.9	196.9	4,978.0	—	9,062.2	9,064.7	—	9,064.7
2008	—	2.5	6.2	4,601.4	8.7	748.1	213.6	5,509.4	—	11,087.5	11,090.0	—	11,090.0
2009	—	2.4	25.2	R 2,550.7	6.3	477.4	195.4	3,898.6	—	R 7,153.6	R 7,156.0	—	R 7,156.0
2010	—	2.0	25.2	R 3,183.4	2.0	594.4	165.5	4,894.7	—	R 8,865.2	R 8,867.2	—	R 8,867.2
2011	—	2.8	29.7	R 4,168.2	2.5	818.3	185.5	5,839.6	—	R 11,043.6	R 11,046.5	—	R 11,046.5
2012	—	2.3	28.9	R 3,957.9	2.2	863.3	178.0	6,269.9	—	R 11,300.3	R 11,302.6	—	R 11,302.6
2013	—	R 3.1	21.6	R 3,778.9	3.3	827.0	173.9	5,992.5	—	R 10,797.2	R 10,800.3	—	R 10,800.3
2014	—	R 4.7	8.8	R 3,966.8	4.3	875.1	186.1	6,127.2	—	R 11,168.4	R 11,173.1	—	R 11,173.1
2015	—	R 4.6	7.3	R 2,758.0	3.3	489.5	192.3	4,223.4	—	R 7,673.9	R 7,678.5	—	R 7,678.5
2016	—	R 4.1	6.3	R 2,276.3	3.9	394.7	176.8	3,803.7	—	R 6,661.7	R 6,665.8	—	R 6,665.8
2017	—	R 14.8	7.3	R 2,804.9	18.9	525.0	171.3	4,160.1	—	R 7,687.5	R 7,702.3	—	R 7,702.3
2018	—	R 15.0	9.0	R 3,302.2	12.2	R 693.3	173.3	4,717.5	—	R 8,907.6	R 8,922.5	—	R 8,922.5
2019	—	R 15.9	8.9	3,023.1	6.9	R 579.1	R 168.2	4,431.4	—	R 8,217.7	R 8,233.6	—	R 8,233.6
2020	—	R 14.9	6.9	R 2,343.5	7.0	R 312.7	R 153.1	3,306.8	—	R 6,130.0	R 6,144.9	—	R 6,144.9
2021	—	R 15.5	9.1	R 3,207.2	7.3	R 644.6	R 174.3	5,008.3	—	R 9,050.8	R 9,066.2	—	R 9,066.2
2022	—	R 26.4	11.8	R 4,972.9	8.7	R 1,178.1	R 222.3	6,500.9	—	R 12,894.6	R 12,921.0	—	R 12,921.0
2023	—	20.9	10.1	4,101.4	6.0	984.0	174.9	5,870.9	—	11,147.4	11,168.4	—	11,168.4

[a] Transportation use of natural gas as vehicle fuel only.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET7. Electric power sector price and expenditure estimates, selected years, 1970-2023, Oklahoma

Year	Coal	Natural gas [a]	Petroleum: Distillate fuel oil	Petroleum: Petroleum coke	Petroleum: Residual fuel oil	Petroleum: Total	Nuclear fuel	Biomass: Wood and waste [b]	Electricity imports [c]	Total energy [d]
	Prices in dollars per million Btu									
1970	0.39	0.19	0.56	—	0.46	0.50	—	—	—	0.19
1975	0.43	0.61	1.92	—	1.45	1.75	—	—	—	0.61
1980	1.23	1.74	5.30	—	3.44	5.29	—	—	—	1.63
1985	1.68	2.95	5.54	—	3.73	5.34	—	—	—	2.30
1990	1.40	3.01	7.28	—	3.02	4.34	—	—	—	2.06
1995	0.99	2.27	2.53	—	1.90	1.97	—	—	—	1.42
2000	0.94	4.42	5.86	—	—	5.86	—	—	—	2.09
2005	1.01	8.04	12.35	—	8.35	11.85	—	—	—	3.79
2006	1.09	6.39	13.31	—	9.26	13.30	—	—	—	3.41
2007	1.17	6.50	16.39	—	8.14	9.96	—	—	—	3.59
2008	1.32	7.92	15.55	—	—	15.55	—	2.66	—	4.21
2009	1.64	3.79	14.13	—	—	14.13	—	—	—	2.61
2010	1.71	4.68	17.91	—	—	17.91	—	—	—	3.12
2011	1.76	4.45	21.51	—	—	21.51	—	—	—	2.91
2012	1.97	2.96	22.77	—	—	22.77	—	—	—	2.48
2013	2.02	3.98	22.33	—	—	22.33	—	2.26	—	2.89
2014	1.96	4.99	21.15	—	—	21.15	—	2.73	—	3.18
2015	1.97	2.97	13.81	—	—	13.81	—	2.62	—	2.47
2016	1.91	2.75	12.16	—	—	12.16	—	2.54	—	2.40
2017	1.83	3.18	14.71	—	—	14.71	—	2.40	—	2.59
2018	1.77	2.73	16.20	—	—	16.20	—	2.22	—	2.42
2019	1.73	2.37	15.28	—	—	15.28	—	2.33	—	2.25
2020	1.60	2.26	8.62	—	—	8.62	—	1.80	—	2.16
2021	1.74	12.41	15.87	—	—	15.87	—	2.39	—	9.00
2022	2.59	7.53	24.88	—	—	24.88	—	2.69	—	6.27
2023	2.27	2.97	22.10	—	—	22.10	—	2.93	—	2.88
	Expenditures in million dollars									
1970	(s)	46.5	0.2	—	0.2	0.4	—	—	—	46.8
1975	(s)	189.1	0.6	—	0.3	0.9	—	—	—	190.0
1980	123.5	602.0	1.8	—	(s)	1.8	—	—	—	727.3
1985	367.4	618.3	2.5	—	0.2	2.7	—	—	—	988.5
1990	373.6	552.3	1.2	—	1.1	2.3	—	—	—	928.2
1995	334.6	376.7	0.3	—	1.3	1.6	—	—	—	712.9
2000	346.0	798.8	2.6	—	—	2.6	—	—	—	1,147.5
2005	387.5	2,005.2	1.6	—	0.2	1.8	—	—	—	2,394.5
2006	404.3	1,833.2	3.6	—	(s)	3.6	—	—	—	2,241.1
2007	417.8	1,917.9	5.6	—	9.7	15.3	—	—	—	2,351.0
2008	498.7	2,314.5	2.1	—	—	2.1	—	0.1	—	2,815.4
2009	592.4	1,116.0	1.9	—	—	1.9	—	—	—	1,710.3
2010	570.8	1,398.7	2.5	—	—	2.5	—	—	—	1,972.0
2011	643.5	1,218.1	3.8	—	—	3.8	—	—	—	1,865.3
2012	621.5	966.3	2.8	—	—	2.8	—	—	—	1,590.6
2013	652.6	1,022.4	2.3	—	—	2.3	—	0.4	—	1,677.8
2014	634.1	1,078.7	2.7	—	—	2.7	—	0.5	—	1,716.0
2015	530.6	790.9	1.4	—	—	1.4	—	0.4	—	1,323.3
2016	403.3	800.5	2.2	—	—	2.2	—	0.5	—	1,206.4
2017	347.3	757.0	2.3	—	—	2.3	—	0.5	—	1,107.2
2018	291.0	919.1	2.9	—	—	2.9	—	0.6	—	1,213.5
2019	154.2	855.3	2.9	—	—	2.9	—	0.6	—	1,013.0
2020	107.1	805.8	2.5	—	—	2.5	—	0.4	—	915.8
2021	223.3	3,385.2	6.1	—	—	6.1	—	0.6	—	3,615.1
2022	265.1	2,230.9	7.6	—	—	7.6	—	1.2	—	2,504.9
2023	137.2	1,096.6	4.8	—	—	4.8	—	0.5	—	1,239.0

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[c] Electricity imported from Canada and Mexico.
[d] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET1. Primary energy, electricity, and total energy price and expenditure estimates, selected years, 1970-2023, Oregon

Year	Primary energy														Electric power sector [i,k,l]	Electricity [m]	Total energy [h,i,j]
	Coal				Petroleum								Biomass				
	Coking coal	Steam coal	Total	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Nuclear fuel	Wood and waste [g,h]	Total [h,i,j,k]			
	Prices in dollars per million Btu																
1970	—	0.59	0.59	0.81	1.21	1.96	0.73	2.83	0.51	1.47	1.88	—	1.34	1.61	0.48	2.90	1.85
1975	—	1.04	1.04	1.44	2.62	3.92	2.04	4.45	2.06	2.49	3.48	0.20	1.49	2.90	2.04	4.13	3.16
1980	—	1.71	1.71	4.69	6.62	6.81	6.21	9.75	3.92	5.72	7.84	0.36	1.68	6.04	0.59	7.59	7.07
1985	—	2.16	2.16	5.60	7.45	9.47	6.16	8.87	4.70	6.52	7.77	0.54	1.82	6.04	2.21	13.08	8.27
1990	—	1.22	1.22	4.28	7.61	10.61	5.93	9.45	3.50	5.45	7.90	0.44	1.37	5.81	1.02	12.25	8.08
1995	—	1.25	1.25	3.93	7.58	10.24	4.28	10.33	2.20	6.36	8.28	—	1.61	6.53	1.42	13.68	8.58
2000	—	1.07	1.07	4.94	10.80	12.99	7.04	13.16	4.02	6.45	11.07	—	1.98	8.13	2.28	14.32	10.56
2005	—	1.28	1.28	8.32	17.28	19.82	12.87	18.91	5.85	9.83	16.77	—	3.95	12.49	5.21	18.60	15.26
2006	—	1.37	1.37	9.26	19.38	22.20	15.16	21.49	7.56	11.88	19.12	—	3.95	14.38	4.88	19.14	16.91
2007	—	1.42	1.42	8.97	20.57	24.42	16.27	23.79	8.45	14.87	21.01	—	4.13	14.72	5.01	20.56	18.21
2008	—	1.49	1.49	9.09	26.71	28.72	22.80	27.62	16.06	16.76	25.92	—	4.79	17.22	5.65	21.22	20.88
2009	—	1.80	1.80	8.21	17.41	23.38	12.94	20.55	11.90	22.10	18.82	—	4.63	13.45	3.73	21.90	17.58
2010	—	1.71	1.71	7.09	21.44	22.84	16.52	24.03	15.04	R 23.58	R 22.37	—	4.96	R 14.74	3.76	22.15	R 19.11
2011	—	1.84	1.84	7.45	27.30	27.77	22.72	29.58	19.89	R 26.95	R 27.99	—	5.91	R 18.62	3.42	23.57	R 22.13
2012	—	1.97	1.97	6.20	28.65	21.53	23.07	31.08	22.37	R 28.25	R 29.24	—	5.25	R 18.46	2.96	24.07	R 22.59
2013	—	2.01	2.01	6.23	27.95	22.68	22.15	29.90	21.34	R 28.25	R 28.34	—	5.30	R 17.17	3.36	24.72	R 22.05
2014	—	2.55	2.55	6.73	26.97	25.29	20.91	28.93	19.40	R 28.98	R 27.56	—	R 5.71	R 17.48	3.85	25.45	R 22.12
2015	—	2.46	2.46	5.94	18.92	15.84	12.23	23.76	11.11	R 26.37	R 21.27	—	R 4.64	R 13.58	3.09	25.63	R 18.96
2016	—	2.25	2.25	5.33	16.55	15.39	10.16	20.67	6.19	R 21.50	R 18.52	—	R 4.37	R 12.10	2.50	25.88	R 17.38
2017	—	2.37	2.37	5.30	19.38	18.92	12.40	23.04	8.55	20.90	20.86	—	R 4.69	13.29	2.63	25.82	R 18.36
2018	—	2.43	2.43	4.77	23.09	20.83	16.13	26.40	11.25	25.86	24.30	—	R 4.85	R 14.86	2.35	25.93	20.27
2019	—	2.32	2.32	4.50	22.26	17.77	15.04	26.79	14.06	R 26.15	24.02	—	R 5.04	R 13.95	2.23	25.81	19.87
2020	—	2.23	2.23	4.64	R 18.47	15.62	10.32	22.79	10.25	23.65	20.25	—	R 3.18	12.07	2.03	25.86	R 18.13
2021	—	3.56	3.56	5.54	R 23.91	22.99	14.73	29.74	15.19	R 26.56	26.36	—	R 3.92	R 15.87	3.45	26.24	R 21.46
2022	—	4.19	4.19	7.36	R 35.97	23.42	26.53	39.62	26.95	R 34.69	R 36.61	—	R 5.48	R 22.23	5.56	27.14	R 26.92
2023	—	4.73	4.73	7.72	31.68	20.42	21.31	36.22	22.03	31.00	32.74	—	5.20	20.13	5.00	30.23	26.55
	Expenditures in million dollars																
1970	—	1.8	1.8	68.7	89.2	9.1	8.6	371.2	18.5	42.6	539.2	—	23.8	633.4	-0.8	248.3	881.0
1975	—	2.8	2.8	139.9	199.4	9.5	24.0	675.3	45.4	87.0	1,040.6	(s)	26.2	1,209.5	-0.4	458.4	1,667.5
1980	—	20.7	20.7	320.9	643.9	30.8	86.5	1,562.9	100.0	160.9	2,585.1	21.4	45.2	2,993.3	-41.1	950.4	3,902.7
1985	—	21.7	21.7	432.9	651.3	47.0	74.3	1,354.2	142.9	184.1	2,453.9	39.9	55.8	3,166.6	-216.3	1,573.1	4,523.4
1990	—	19.1	19.1	438.2	704.6	53.3	111.3	1,575.3	97.5	192.1	2,734.0	28.3	49.1	3,293.1	-98.2	1,796.5	4,991.4
1995	—	25.2	25.2	567.3	729.4	57.1	124.1	1,829.0	49.6	180.8	2,969.9	—	46.2	3,626.1	-66.8	2,135.0	5,694.3
2000	—	41.3	41.3	1,080.6	1,164.0	63.0	250.5	2,463.8	37.1	227.9	4,206.2	—	48.8	5,387.3	-265.6	2,459.7	7,581.3
2005	—	45.6	45.6	1,930.8	1,795.0	96.0	394.1	3,681.2	80.3	303.0	6,349.5	—	120.8	8,476.2	-701.4	2,945.3	10,720.1
2006	—	36.8	36.8	2,047.4	2,090.0	91.5	495.6	4,229.2	98.4	370.5	7,375.3	—	132.5	9,618.9	-538.0	3,138.5	12,219.4
2007	—	64.6	64.6	2,247.0	2,242.0	97.7	519.5	4,624.4	134.9	371.1	7,989.6	—	142.9	10,533.8	-800.7	3,416.3	13,149.4
2008	—	61.6	61.6	2,429.2	2,884.9	188.3	706.3	5,135.1	176.4	393.9	9,484.8	—	139.5	12,152.3	-933.6	3,562.1	14,780.8
2009	—	59.5	59.5	2,022.8	R 1,856.3	154.9	478.7	3,859.2	72.4	370.8	R 6,792.4	—	134.8	R 9,040.9	-559.9	3,554.4	R 12,035.4
2010	—	72.7	72.7	1,677.0	R 2,363.5	139.8	418.3	4,447.0	160.3	R 369.9	R 7,898.8	—	166.8	R 9,834.9	-598.4	3,478.4	R 12,715.0
2011	—	64.7	64.7	1,477.5	R 2,999.2	180.4	571.2	5,287.6	139.4	R 422.3	R 9,600.1	—	182.8	R 11,352.8	-348.5	3,792.9	R 14,797.2
2012	—	55.6	55.6	1,337.9	R 3,094.7	124.7	588.1	5,429.6	130.6	R 433.4	R 9,801.1	—	188.6	R 11,413.1	-350.3	3,834.9	R 14,897.8
2013	—	78.4	78.4	R 1,495.4	R 2,935.9	138.2	602.0	5,301.5	98.0	R 432.1	R 9,507.7	—	234.9	R 11,331.0	-501.1	4,018.9	R 14,848.8
2014	—	87.3	87.3	R 1,498.0	R 2,976.7	166.3	560.4	5,191.8	21.2	R 447.2	R 9,363.6	—	R 250.2	R 11,215.6	-514.8	4,110.0	R 14,810.9
2015	—	65.1	65.1	R 1,430.6	R 1,922.2	96.5	339.5	4,424.8	22.0	R 418.3	R 7,223.3	—	R 232.2	R 9,036.5	-487.1	4,134.0	R 12,683.3
2016	—	43.7	43.7	R 1,302.8	R 1,650.8	98.2	292.7	3,966.0	4.7	R 380.9	R 6,393.3	—	R 202.1	R 7,970.5	-353.1	4,181.8	R 11,799.2
2017	—	44.4	44.4	R 1,360.5	R 1,954.8	152.5	382.1	4,498.1	1.1	367.7	R 7,356.3	—	R 217.4	R 9,014.0	-361.4	4,409.2	R 13,061.8
2018	—	41.1	41.1	R 1,261.9	R 2,380.8	176.1	552.3	5,170.7	1.0	387.7	R 8,668.6	—	R 232.1	R 10,223.6	-362.2	4,363.6	R 14,224.9
2019	—	63.7	63.7	R 1,331.0	R 2,202.6	158.9	R 520.9	5,136.1	30.4	R 388.8	R 8,437.6	—	R 236.9	R 10,069.3	-410.4	4,438.3	R 14,097.2
2020	—	39.8	39.8	R 1,275.5	R 1,882.2	124.6	R 224.5	3,786.9	37.1	341.7	R 6,397.0	—	R 130.1	R 7,842.3	-326.0	4,501.8	R 12,018.1
2021	—	4.6	4.6	R 1,646.4	R 2,679.8	206.3	R 376.4	5,343.9	12.3	R 395.4	R 9,014.1	—	R 163.6	R 10,828.7	-560.3	4,847.4	R 15,115.8
2022	—	4.5	4.5	R 2,121.2	R 4,199.4	235.3	R 743.1	6,954.8	22.4	R 522.7	R 12,677.7	—	R 222.4	R 15,025.8	-815.3	5,216.8	R 19,427.3
2023	—	3.1	3.1	2,449.3	4,093.4	174.9	637.5	6,400.9	15.2	414.3	11,736.2	—	200.0	14,388.6	-897.2	5,981.5	19,472.9

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[l] Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
[m] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.
Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET2. Total end-use energy price and expenditure estimates, selected years, 1970-2023, Oregon

Year	Primary energy											Electricity [k]	Total energy [h,i,j]
			Petroleum							Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g,h]	Total [h,i,j]		
	Prices in dollars per million Btu												
1970	0.59	0.81	1.21	1.96	0.73	2.83	0.51	1.47	1.88	1.36	1.62	2.90	1.85
1975	1.04	1.44	2.62	3.92	2.04	4.45	2.06	2.49	3.48	1.49	2.90	4.13	3.16
1980	2.28	4.69	6.62	6.81	6.21	9.75	3.92	5.72	7.85	1.67	6.92	7.59	7.07
1985	2.52	5.60	7.45	9.47	6.16	8.87	4.70	6.52	7.77	1.82	6.91	13.08	8.27
1990	2.55	4.38	7.62	10.61	5.93	9.45	3.50	5.45	7.90	1.50	6.79	12.25	8.08
1995	2.42	4.34	7.58	10.24	4.28	10.33	2.20	6.36	8.28	1.90	7.01	13.68	8.58
2000	—	5.91	10.81	12.99	7.04	13.16	4.02	6.45	11.08	2.41	9.38	14.32	10.56
2005	1.85	9.41	17.31	19.82	12.87	18.91	5.85	9.83	16.78	3.96	14.29	18.60	15.26
2006	2.00	11.10	19.38	22.20	15.16	21.49	7.56	11.88	19.12	3.87	16.26	19.14	16.91
2007	2.20	11.19	20.57	24.42	16.27	23.79	8.45	14.87	21.01	4.00	17.51	20.56	18.21
2008	2.44	10.83	26.73	28.72	22.80	27.62	16.06	16.76	25.92	5.18	20.77	21.22	20.88
2009	2.45	11.52	17.41	23.38	12.94	20.55	11.90	22.10	18.82	5.16	16.24	21.90	17.58
2010	2.62	9.43	21.45	22.84	16.52	24.03	15.04	R 23.58	R 22.37	5.45	R 18.18	22.15	R 19.11
2011	2.82	8.97	27.30	27.77	22.72	29.58	19.89	R 26.95	R 27.99	6.56	R 21.67	23.57	R 22.13
2012	3.08	8.15	28.65	21.53	23.07	31.08	22.37	R 28.25	R 29.24	5.78	R 22.12	24.07	R 22.59
2013	3.11	8.10	R 27.95	22.68	22.15	29.90	21.34	R 28.25	R 28.34	5.82	R 21.20	24.72	R 22.05
2014	3.32	8.49	26.97	25.29	20.91	28.93	19.40	R 28.98	R 27.56	R 6.35	R 21.06	25.45	R 22.12
2015	3.19	R 9.00	18.93	15.84	12.23	23.76	11.11	R 26.37	R 21.28	R 4.96	R 16.84	25.63	R 18.96
2016	—	R 7.82	R 16.55	15.39	10.16	20.67	6.19	R 21.50	R 18.52	R 4.69	R 14.72	25.88	R 17.38
2017	3.40	7.42	19.39	18.92	12.40	23.04	8.55	20.90	20.86	R 5.04	16.00	25.82	R 18.36
2018	3.35	7.23	23.09	20.83	16.13	26.40	11.25	25.86	24.30	R 5.30	18.48	25.93	20.27
2019	3.46	6.89	22.27	17.77	15.04	26.79	14.06	R 26.15	24.02	R 5.48	17.97	25.81	19.87
2020	3.31	R 7.24	18.48	15.62	10.32	22.79	10.25	23.65	20.25	R 3.44	R 15.37	25.86	R 18.13
2021	3.56	7.78	R 23.91	22.99	14.73	29.74	15.19	R 26.56	26.36	R 4.23	R 19.75	26.24	R 21.46
2022	4.19	8.94	35.97	23.42	26.53	39.62	26.95	R 34.69	R 36.61	R 6.02	R 26.84	27.14	R 26.92
2023	4.73	10.93	31.68	20.42	21.31	36.22	22.03	31.00	32.74	5.58	25.19	30.23	26.55
	Expenditures in million dollars												
1970	1.8	68.3	89.2	9.1	8.6	371.2	18.4	42.6	539.1	23.5	632.7	248.3	881.0
1975	2.8	139.9	199.0	9.5	24.0	675.3	45.4	87.0	1,040.2	26.2	1,209.1	458.4	1,667.5
1980	9.5	319.5	639.8	30.8	86.5	1,562.9	100.0	160.9	2,581.0	42.3	2,952.2	950.4	3,902.7
1985	7.8	432.9	651.2	47.0	74.3	1,354.2	142.9	184.1	2,453.8	55.8	2,950.3	1,573.1	4,523.4
1990	3.8	415.2	703.4	53.3	111.3	1,575.3	97.5	192.1	2,732.9	43.0	3,194.9	1,796.5	4,991.4
1995	6.8	541.7	729.1	57.1	124.1	1,829.0	49.6	180.8	2,969.6	41.2	3,559.3	2,135.0	5,694.3
2000	—	876.0	1,158.8	63.0	250.5	2,463.8	37.1	227.9	4,201.0	44.6	5,121.6	2,459.7	7,581.3
2005	0.4	1,338.6	1,788.4	96.0	394.1	3,681.2	80.3	303.0	6,342.9	92.9	7,774.8	2,945.3	10,720.1
2006	5.3	1,600.0	2,089.1	91.5	495.6	4,229.2	98.4	370.5	7,374.3	101.2	9,080.9	3,138.5	12,219.4
2007	5.1	1,627.8	2,241.2	97.7	519.5	4,624.4	134.9	371.1	7,988.7	111.5	9,733.1	3,416.3	13,149.4
2008	4.1	1,603.4	2,883.7	188.3	706.3	5,135.1	176.4	393.9	9,483.6	127.6	11,218.7	3,562.1	14,780.8
2009	4.7	1,560.8	R 1,856.0	154.9	478.7	3,859.2	72.4	370.8	R 6,792.0	123.4	R 8,481.0	3,554.4	R 12,035.4
2010	4.9	1,179.6	R 2,362.9	139.8	418.3	4,447.0	160.3	R 369.9	R 7,898.3	153.8	R 9,236.6	3,478.4	R 12,715.0
2011	5.2	1,229.8	R 2,997.6	180.4	571.2	5,287.6	139.4	R 422.3	R 9,598.5	170.8	R 11,004.4	3,792.9	R 14,797.2
2012	5.4	1,081.1	R 3,093.0	124.7	588.1	5,429.6	130.6	R 433.4	R 9,799.5	177.0	R 11,062.9	3,834.9	R 14,897.8
2013	6.2	R 1,097.2	R 2,934.6	138.2	602.0	5,301.5	98.0	R 432.1	R 9,506.4	220.2	R 10,829.9	4,018.9	R 14,848.8
2014	8.4	R 1,101.8	R 2,974.6	166.3	560.4	5,191.8	21.2	R 447.2	R 9,361.5	R 229.1	R 10,700.9	4,110.0	R 14,810.9
2015	7.5	R 1,104.9	R 1,921.5	96.5	339.5	4,424.8	22.0	R 418.3	R 7,222.6	R 214.3	R 8,549.3	4,134.0	R 12,683.3
2016	—	R 1,039.9	R 1,650.3	98.2	292.7	3,966.0	4.7	R 380.9	R 6,392.8	R 184.7	R 7,617.3	4,181.8	R 11,799.2
2017	3.2	R 1,091.8	R 1,953.4	152.5	382.1	4,498.1	1.1	367.7	R 7,354.9	R 202.6	R 8,652.6	4,409.2	R 13,061.8
2018	4.8	R 972.1	R 2,379.9	176.1	552.3	5,170.7	1.0	387.7	R 8,667.7	R 216.7	R 9,861.3	4,363.6	R 14,224.9
2019	4.1	R 996.7	R 2,201.5	158.9	R 520.9	5,136.1	30.4	R 388.8	R 8,436.6	R 221.5	R 9,658.9	4,438.3	R 14,097.2
2020	2.8	R 998.6	R 1,881.9	124.6	R 224.5	3,786.9	37.1	341.7	R 6,396.6	R 118.3	R 7,516.3	4,501.8	R 12,018.1
2021	4.6	R 1,102.8	R 2,679.7	206.3	R 376.4	5,343.9	12.3	R 395.4	R 9,014.1	R 146.9	R 10,268.4	4,847.4	R 15,115.8
2022	4.5	R 1,323.9	R 4,199.1	235.3	R 743.1	6,954.8	22.4	R 522.7	R 12,677.4	R 204.7	R 14,210.5	5,216.8	R 19,427.3
2023	3.1	1,568.0	4,093.4	174.9	637.5	6,400.9	15.2	414.3	11,736.2	184.0	13,491.3	5,981.5	19,472.9

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. · Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2023, Oregon

Year	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
	Prices in dollars per million Btu									
1970	0.95	1.45	1.41	2.61	2.79	1.59	0.82	1.47	3.65	2.40
1975	1.14	2.11	2.80	5.27	3.82	2.99	1.62	2.36	5.27	3.70
1980	4.26	5.36	7.02	9.00	9.80	7.31	4.15	6.06	9.37	7.94
1985	3.67	6.73	7.00	8.73	10.64	7.23	4.69	6.75	13.72	10.58
1990	3.77	6.13	6.99	13.92	7.09	7.75	4.75	6.46	13.86	10.76
1995	3.77	6.46	6.45	9.93	4.81	6.99	3.86	6.32	16.08	11.85
2000	3.72	7.87	9.87	13.83	9.20	10.66	5.88	8.20	17.23	13.11
2005	—	12.45	15.49	20.80	12.83	17.41	9.20	12.83	21.26	17.43
2006	—	14.03	17.45	23.65	20.63	19.66	10.60	14.44	21.91	18.57
2007	—	14.18	18.15	25.96	22.62	21.10	11.71	14.67	23.99	19.82
2008	—	13.55	22.24	30.34	28.04	25.43	14.42	14.95	24.89	20.35
2009	—	14.16	15.50	25.71	23.40	20.62	10.83	14.49	25.43	20.33
2010	—	12.39	20.19	25.70	25.10	23.04	12.78	13.48	26.01	20.32
2011	—	11.50	26.58	30.68	30.13	28.77	15.36	13.43	27.95	21.07
2012	—	10.97	27.82	28.10	31.57	28.10	17.11	12.94	28.74	21.51
2013	—	10.75	27.50	27.81	31.20	27.77	16.76	12.82	29.01	21.38
2014	—	11.40	26.88	32.84	31.05	30.50	16.34	13.64	30.68	22.81
2015	—	11.86	18.85	24.58	16.01	R 21.70	11.26	12.47	31.26	22.76
2016	—	10.89	15.71	23.44	12.76	19.26	9.62	11.28	31.25	21.98
2017	—	9.90	17.94	27.37	15.96	22.71	10.76	10.88	31.24	21.33
2018	—	9.97	20.92	28.46	23.06	25.80	11.90	11.47	32.19	22.20
2019	—	9.47	20.15	24.87	21.53	23.46	11.46	10.81	32.28	21.47
2020	—	10.33	16.55	21.76	13.99	R 19.79	9.47	R 10.93	32.73	R 22.73
2021	—	11.12	19.76	28.52	22.09	R 25.31	11.37	R 12.43	33.34	R 23.70
2022	—	11.97	30.53	31.70	36.46	31.36	R 17.58	R 13.88	33.48	R 24.23
2023	—	14.71	27.95	29.35	31.14	28.85	16.07	15.92	37.32	27.41
	Expenditures in million dollars									
1970	0.4	29.8	25.6	6.9	1.0	33.4	2.4	66.0	122.8	188.8
1975	0.1	63.1	39.0	5.8	1.0	45.8	4.9	114.0	217.4	331.4
1980	0.3	103.1	82.5	15.6	2.1	100.2	8.0	211.7	432.9	644.6
1985	0.1	148.8	94.1	13.7	2.5	110.3	15.5	274.6	680.0	954.7
1990	(s)	146.5	64.8	16.0	0.5	81.4	15.6	243.5	727.3	970.8
1995	(s)	189.3	47.9	14.7	0.7	63.3	16.1	268.7	895.1	1,163.8
2000	—	314.2	56.5	26.1	9.7	92.3	21.3	427.8	1,070.9	1,498.7
2005	—	513.5	56.1	54.7	5.5	116.3	38.4	668.2	1,330.4	1,998.6
2006	—	596.4	65.7	47.7	6.0	119.5	39.2	755.0	1,418.8	2,173.8
2007	—	628.2	58.6	50.4	1.0	109.9	47.9	786.0	1,585.9	2,371.8
2008	—	625.8	85.5	75.0	1.7	162.3	66.0	854.0	1,690.8	2,544.8
2009	—	650.8	48.8	76.5	8.0	133.4	72.6	856.7	1,718.7	2,575.4
2010	—	509.9	50.0	61.5	8.5	120.0	91.8	721.7	1,671.7	2,393.4
2011	—	548.1	62.0	74.4	10.7	147.1	107.1	802.3	1,852.6	2,654.9
2012	—	486.2	59.1	51.8	5.5	116.5	99.6	702.3	1,848.7	2,551.0
2013	—	501.4	R 56.4	63.8	4.2	R 124.3	127.3	R 753.1	1,913.1	R 2,666.2
2014	—	482.7	R 45.4	84.4	4.8	R 134.6	125.6	742.9	1,948.7	R 2,691.7
2015	—	463.0	R 32.0	47.4	2.0	R 81.4	97.9	R 642.3	1,948.3	R 2,590.6
2016	—	459.7	R 27.9	44.1	3.1	R 75.1	R 84.8	R 619.5	1,980.6	R 2,600.1
2017	—	506.6	R 35.2	60.7	2.3	R 98.2	R 101.1	R 706.0	2,138.5	R 2,844.5
2018	—	454.0	R 31.2	81.2	2.8	R 115.2	R 121.7	R 690.9	2,079.2	R 2,770.1
2019	—	477.8	26.5	82.0	3.2	111.7	R 131.1	R 720.6	2,123.9	R 2,844.5
2020	—	496.3	R 21.1	56.5	2.3	79.9	R 44.9	R 621.1	2,191.9	R 2,813.0
2021	—	543.3	36.8	96.3	3.3	R 136.5	R 55.8	R 735.5	2,307.4	R 3,042.9
2022	—	629.1	56.8	78.2	4.9	139.9	R 108.7	R 877.7	2,367.5	R 3,245.2
2023	—	739.0	55.3	70.1	8.2	133.6	84.5	957.1	2,603.1	3,560.2

[a] Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2023, Oregon

Year	Primary energy										Electricity [j]	Total energy [g,h,i]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f,g]	Total [g,h,i]		
	Prices in dollars per million Btu											
1970	0.53	1.22	1.22	1.10	0.93	2.83	0.79	1.14	0.82	1.16	3.90	2.28
1975	1.04	1.79	2.60	2.67	2.58	4.45	2.45	2.68	1.62	2.21	5.20	3.66
1980	2.24	4.88	6.71	5.16	6.54	9.75	4.90	6.35	4.15	5.64	8.86	7.27
1985	2.52	6.06	5.69	8.87	10.64	8.87	4.12	6.15	4.69	6.09	14.96	10.81
1990	2.55	4.74	5.39	8.53	7.09	9.45	3.03	5.71	2.08	4.96	14.04	10.01
1995	2.42	5.01	4.54	9.64	4.81	10.33	2.74	5.02	3.86	4.99	14.89	10.87
2000	2.51	6.28	7.51	12.44	9.20	13.16	4.40	8.12	5.88	6.64	15.00	11.56
2005	—	10.06	13.98	16.63	12.83	18.91	7.11	14.18	9.20	10.62	19.07	15.74
2006	—	12.49	16.10	19.10	20.63	21.49	8.42	16.94	10.60	13.05	19.83	17.24
2007	—	11.97	16.82	20.74	22.62	23.79	9.95	17.76	10.33	12.61	21.10	17.82
2008	—	11.29	23.19	24.15	28.04	27.62	14.17	23.20	11.43	12.99	21.36	17.99
2009	—	11.56	13.78	18.50	23.40	20.55	9.27	15.05	9.15	12.05	21.98	17.92
2010	—	10.02	17.75	19.96	25.10	24.03	11.36	18.28	10.68	11.47	22.25	17.98
2011	—	9.39	23.77	24.45	30.13	29.58	14.95	23.91	12.67	11.37	23.89	18.79
2012	—	8.71	24.24	18.01	31.57	31.08	16.47	21.90	13.42	10.19	24.36	18.89
2013	—	8.53	23.22	18.93	31.20	29.90	16.26	21.90	13.60	R 9.84	25.44	19.37
2014	—	9.18	22.13	19.64	31.05	28.93	15.25	21.64	R 13.13	10.59	25.65	19.90
2015	—	9.65	14.13	12.31	16.01	23.76	—	19.20	R 9.31	R 11.75	25.80	R 20.18
2016	—	8.68	11.36	12.46	12.76	20.67	—	16.58	R 7.76	10.40	26.11	R 19.58
2017	—	8.17	13.68	15.74	15.96	23.04	—	18.56	R 8.83	10.56	25.96	R 19.02
2018	—	7.94	15.77	17.12	23.06	26.40	—	R 20.71	R 9.67	11.30	26.12	R 19.61
2019	—	7.48	16.90	13.62	21.53	26.79	—	20.15	R 9.62	R 10.54	25.93	R 18.92
2020	—	7.81	11.89	12.88	13.99	22.79	—	16.84	R 6.10	R 10.17	26.39	R 19.18
2021	—	8.42	17.99	19.79	22.09	29.74	—	23.68	R 7.93	R 12.36	26.69	R 20.38
2022	—	9.63	27.19	21.00	36.46	39.62	—	30.44	R 12.70	R 14.71	27.42	R 21.61
2023	—	11.40	22.87	16.97	31.14	36.22	—	26.28	11.84	15.17	29.08	23.85
	Expenditures in million dollars											
1970	0.2	14.5	11.5	1.4	0.2	3.7	6.6	23.4	(s)	38.2	88.7	126.9
1975	0.2	29.6	18.8	1.4	0.5	5.1	14.8	40.6	0.1	70.6	156.1	226.7
1980	0.7	77.5	70.0	4.4	1.4	14.9	27.0	117.7	0.2	196.1	316.0	512.1
1985	0.1	118.9	44.6	6.8	1.6	10.8	4.9	68.7	0.4	188.1	527.6	715.8
1990	0.1	99.1	37.4	4.8	0.3	13.5	5.4	61.5	2.4	163.1	579.4	742.5
1995	(s)	117.3	28.0	7.0	0.4	1.7	1.5	38.7	2.2	158.3	689.0	847.3
2000	—	185.3	43.5	11.6	1.5	2.0	1.7	60.2	3.6	249.0	805.0	1,054.0
2005	—	287.9	42.0	16.6	4.5	3.1	2.2	68.3	6.2	362.4	1,000.7	1,363.0
2006	—	360.3	44.5	18.4	4.9	7.1	2.1	77.0	6.6	443.9	1,088.3	1,532.2
2007	—	358.5	45.8	19.5	1.6	4.0	2.0	72.9	7.9	439.4	1,165.4	1,604.8
2008	—	352.2	78.9	34.8	1.5	4.6	3.6	123.4	10.5	486.2	1,189.0	1,675.2
2009	—	352.8	57.3	25.6	2.5	3.4	2.1	90.8	10.5	454.1	1,198.4	1,652.5
2010	—	275.2	76.1	26.4	1.1	3.9	1.9	109.4	12.3	396.9	1,173.0	1,569.9
2011	—	291.4	70.9	33.8	1.9	4.8	2.8	114.3	14.2	419.9	1,284.3	1,704.3
2012	—	256.7	43.2	24.7	0.7	5.0	1.6	75.2	13.8	345.7	1,313.5	1,659.2
2013	—	262.9	37.4	22.2	0.5	5.0	0.3	R 65.5	15.6	R 344.0	1,395.8	R 1,739.8
2014	—	267.9	46.0	23.2	0.6	4.6	(s)	74.5	R 15.3	R 357.8	1,403.7	R 1,761.4
2015	—	260.1	R 31.4	16.3	0.5	106.7	—	154.8	R 13.5	R 428.5	1,410.4	R 1,838.9
2016	—	248.0	R 26.1	21.6	0.1	96.6	—	R 144.4	R 13.4	R 405.7	1,430.6	R 1,836.4
2017	—	277.6	R 32.3	54.1	0.1	109.2	—	R 195.7	R 16.3	R 489.6	1,467.5	R 1,957.1
2018	—	245.9	R 47.5	59.9	0.2	127.4	—	R 235.0	R 16.1	R 497.0	1,467.8	R 1,964.7
2019	—	255.1	R 39.9	51.7	0.1	130.7	—	R 222.4	R 16.8	R 494.3	1,453.0	R 1,947.3
2020	—	233.9	R 36.1	45.8	0.1	111.6	—	R 193.6	R 9.5	R 437.0	1,417.9	R 1,854.9
2021	—	264.6	R 44.2	80.4	0.2	146.5	—	271.3	R 11.0	R 547.0	1,503.1	R 2,050.1
2022	—	337.1	R 65.9	84.7	0.3	198.3	—	R 349.3	R 16.9	R 703.3	1,558.0	R 2,261.3
2023	—	390.0	58.9	75.1	0.6	181.7	—	316.2	15.6	721.8	2,290.6	3,012.4

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[g] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[j] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: Expenditure totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2023, Oregon

Year	Primary energy												Electricity [i]	Total energy [f,g,h]
	Coal			Natural gas [a]	Petroleum						Biomass	Total [f,g,h]		
	Coking coal	Steam coal	Total		Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e,f]			
	Prices in dollars per million Btu													
1970	—	0.53	0.53	0.46	0.80	1.16	2.83	0.33	0.96	0.83	1.46	0.75	1.26	0.84
1975	—	1.04	1.04	0.92	2.29	2.90	4.45	1.85	1.97	2.15	1.46	1.58	2.13	1.71
1980	—	2.24	2.24	4.21	5.62	5.62	9.75	3.39	4.29	4.81	1.46	3.94	4.65	4.12
1985	—	2.52	2.52	4.65	5.86	9.96	8.87	4.12	4.95	5.41	1.46	4.20	10.32	5.61
1990	—	2.55	2.55	3.39	5.26	9.50	9.45	3.03	3.77	4.65	1.03	3.47	9.26	5.15
1995	—	2.42	2.42	3.26	4.97	10.06	10.33	2.74	4.33	5.15	1.35	3.71	10.18	5.47
2000	—	—	—	4.78	7.87	11.90	13.16	4.40	4.37	6.26	1.39	5.01	10.43	6.49
2005	—	1.85	1.85	7.43	14.20	19.21	18.91	7.11	6.79	10.12	2.60	7.64	14.17	9.22
2006	—	2.00	2.00	8.84	16.52	21.48	21.49	8.42	8.03	11.72	2.54	8.69	14.22	9.99
2007	—	2.20	2.20	9.00	16.88	24.70	23.79	9.95	10.02	13.67	2.42	9.07	14.83	10.51
2008	—	2.44	2.44	8.85	22.87	29.60	27.62	14.17	11.08	17.34	2.67	10.40	15.42	11.67
2009	—	2.45	2.45	9.46	13.68	23.38	20.55	9.27	16.07	15.82	2.51	10.15	15.84	11.69
2010	—	2.62	2.62	6.99	17.85	21.53	24.03	11.36	R 17.82	R 18.78	2.50	R 9.46	15.82	R 11.17
2011	—	2.82	2.82	6.69	23.50	26.81	29.58	14.95	R 20.40	R 23.24	2.76	R 11.24	16.02	R 12.50
2012	—	3.08	3.08	5.74	24.51	18.66	31.08	16.47	R 22.13	R 23.82	2.67	R 10.36	16.37	R 11.90
2013	—	3.11	3.11	5.74	23.96	19.83	29.90	16.26	R 22.36	R 23.62	2.66	R 9.72	16.99	R 11.58
2014	—	3.32	3.32	6.03	22.68	20.73	28.93	15.25	R 23.14	R 23.10	3.24	R 10.00	17.50	R 11.97
2015	—	3.19	3.19	6.74	14.23	11.47	23.76	9.05	R 20.59	R 17.33	3.11	R 8.59	17.49	R 10.90
2016	—	—	—	5.35	12.28	11.66	20.67	6.19	R 16.37	R 14.46	3.00	R 7.52	17.74	R 10.09
2017	—	3.40	3.40	4.96	14.63	14.90	23.04	8.55	15.70	15.86	2.94	7.53	17.54	10.17
2018	—	3.35	3.35	4.69	17.72	16.27	26.40	11.25	19.80	19.39	2.72	8.01	17.17	10.62
2019	—	3.46	3.46	4.39	16.63	12.75	26.79	—	R 20.26	19.04	2.71	7.73	17.16	10.53
2020	—	3.31	3.31	4.48	11.61	11.99	22.79	—	17.82	15.52	2.27	6.69	16.69	9.80
2021	—	3.56	3.56	4.79	17.52	18.84	29.74	12.34	R 20.21	R 19.91	2.81	R 8.22	17.51	R 11.24
2022	—	4.19	4.19	5.91	27.28	19.99	39.62	20.62	R 27.18	R 27.76	R 2.99	11.36	19.96	R 14.34
2023	—	4.73	4.73	7.44	23.20	15.93	36.22	18.65	23.77	24.56	3.18	10.94	22.04	14.23
	Expenditures in million dollars													
1970	—	1.2	1.2	23.9	14.8	0.8	10.7	7.0	23.0	56.3	21.1	102.5	36.8	139.4
1975	—	2.5	2.5	47.2	35.1	2.1	13.1	24.5	60.3	135.1	21.2	205.9	84.8	290.7
1980	—	8.5	8.5	138.8	128.4	9.5	21.4	44.2	99.5	302.9	34.1	484.2	201.6	685.8
1985	—	7.6	7.6	165.2	84.0	18.9	22.5	40.3	119.8	285.5	39.9	498.2	365.4	863.6
1990	—	3.6	3.6	169.6	77.7	24.7	21.1	8.5	117.7	249.8	25.0	448.0	489.5	937.5
1995	—	6.8	6.8	235.0	102.9	29.6	27.6	5.6	105.4	271.1	22.8	535.6	550.3	1,085.9
2000	—	—	—	376.0	165.1	21.3	27.6	3.8	131.4	349.1	19.8	745.0	581.9	1,326.8
2005	—	0.4	0.4	536.3	152.3	10.7	95.1	11.9	179.9	450.0	48.4	1,035.0	613.1	1,648.1
2006	—	5.3	5.3	642.0	178.2	12.7	113.4	24.8	215.8	544.8	55.4	1,247.6	630.3	1,877.9
2007	—	5.1	5.1	640.0	163.5	17.9	106.2	20.5	210.2	518.3	55.7	1,219.1	663.8	1,882.9
2008	—	4.1	4.1	623.9	284.6	53.9	99.6	19.6	219.6	677.3	51.1	1,356.4	681.0	2,037.4
2009	—	4.7	4.7	556.0	164.9	38.7	71.7	9.4	213.3	497.9	40.3	1,099.0	635.7	1,734.7
2010	—	4.9	4.9	393.5	208.3	51.2	94.5	6.9	R 224.5	R 585.4	49.7	R 1,033.5	631.9	R 1,665.4
2011	—	5.2	5.2	389.7	345.1	71.3	146.1	15.3	R 260.0	R 837.9	49.6	R 1,282.3	654.0	R 1,936.3
2012	—	5.4	5.4	337.6	357.1	47.7	127.6	11.3	R 283.6	R 827.3	63.5	R 1,233.7	670.7	R 1,904.5
2013	—	6.2	6.2	332.2	280.7	51.4	131.3	12.2	R 287.8	R 763.4	77.3	R 1,179.0	708.0	R 1,887.0
2014	—	8.4	8.4	350.4	323.0	57.8	74.2	5.8	R 300.4	R 761.2	88.2	R 1,208.2	755.4	R 1,963.6
2015	—	7.5	7.5	380.8	204.6	32.0	77.5	3.6	R 273.3	R 591.1	102.9	R 1,082.2	773.0	R 1,855.3
2016	—	—	—	331.0	199.7	31.6	66.9	4.7	R 248.3	R 551.1	86.6	R 968.6	768.4	R 1,737.0
2017	—	3.2	3.2	307.2	215.9	31.0	75.4	1.1	239.5	562.9	85.1	958.5	800.9	1,759.3
2018	—	4.8	4.8	271.9	230.3	32.3	87.7	1.0	249.8	601.0	78.9	956.6	814.2	1,770.8
2019	—	4.1	4.1	263.4	212.2	20.7	88.4	—	R 255.6	R 576.9	73.6	R 918.0	858.9	R 1,776.9
2020	—	2.8	2.8	268.2	137.3	21.1	75.1	—	R 221.9	R 455.4	63.9	R 790.3	889.6	R 1,679.8
2021	—	4.6	4.6	294.6	247.2	27.3	96.5	0.9	R 259.9	R 631.8	80.1	R 1,011.2	1,034.7	R 2,045.9
2022	—	4.5	4.5	357.6	389.1	66.1	136.1	1.6	R 353.2	R 946.1	R 79.1	R 1,387.3	1,288.9	R 2,676.2
2023	—	3.1	3.1	439.0	323.1	22.4	126.0	1.2	275.6	748.4	84.0	1,274.5	1,085.2	2,359.7

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[i] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET6. Transportation sector energy price and expenditure estimates, selected years, 1970-2023, Oregon

Year	Primary energy											Electricity [g]	Total energy [f]
			Petroleum										
	Coal	Natural gas[a]	Aviation gasoline	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Lubricants	Motor gasoline [e]	Residual fuel oil	Total	Total [f]		
	Prices in dollars per million Btu												
1970	0.53	—	2.17	1.34	1.10	0.73	5.08	2.83	0.71	2.41	2.41	—	2.41
1975	1.04	—	3.45	2.69	2.67	2.04	7.48	4.45	2.21	3.98	3.98	—	3.98
1980	—	—	9.02	6.96	5.16	6.21	14.36	9.75	4.14	8.81	8.81	—	8.81
1985	—	—	9.99	8.27	10.40	6.16	18.18	8.87	5.02	8.41	8.41	—	8.41
1990	—	—	9.32	8.54	11.02	5.93	20.61	9.45	3.59	8.64	8.64	10.33	8.64
1995	—	4.43	8.36	8.90	13.59	4.28	21.75	10.33	2.13	8.98	8.97	11.64	8.98
2000	—	7.61	10.87	11.97	16.48	7.04	23.20	13.16	3.96	12.03	12.03	16.06	12.03
2005	—	4.63	18.56	17.89	21.26	12.87	35.22	18.91	5.63	17.73	17.72	18.63	17.72
2006	—	6.94	22.31	19.90	23.05	15.16	43.88	21.49	7.29	20.19	20.18	18.75	20.18
2007	—	6.38	23.70	21.15	25.04	16.27	47.16	23.79	8.20	21.89	21.88	19.67	21.88
2008	—	7.83	27.23	27.61	29.84	22.80	55.12	27.62	16.39	27.05	27.03	19.80	27.03
2009	—	6.93	20.32	18.17	23.03	12.94	56.07	20.55	12.57	19.15	R 19.15	20.02	19.15
2010	—	5.57	25.19	22.11	26.11	16.52	58.80	24.03	15.32	22.80	22.79	20.47	22.79
2011	—	4.14	31.64	28.06	31.26	22.72	69.54	29.58	20.92	28.62	28.61	23.12	28.61
2012	—	4.47	33.04	29.43	23.15	23.07	72.11	31.08	23.28	29.99	29.98	24.15	29.97
2013	—	R 4.63	32.71	28.57	24.31	22.15	69.42	29.90	22.36	28.93	28.92	26.03	28.92
2014	—	R 4.60	33.16	27.74	25.20	20.91	69.44	28.93	21.60	28.08	28.07	27.00	28.07
2015	—	R 4.51	24.86	19.87	15.98	12.23	67.28	23.76	11.63	21.79	R 21.77	26.79	R 21.77
2016	—	R 4.86	21.62	17.60	16.17	10.16	65.78	20.67	—	19.09	19.08	27.14	19.08
2017	—	R 5.57	24.13	20.45	20.67	12.40	67.25	23.04	—	21.50	21.50	27.39	21.50
2018	—	R 5.58	27.04	24.20	22.25	16.13	72.37	26.40	—	24.90	24.89	26.84	R 24.89
2019	—	R 5.71	25.57	23.33	19.69	15.04	74.92	26.79	14.06	24.67	24.66	26.78	24.66
2020	—	R 5.74	22.34	19.69	18.72	10.32	75.34	22.79	10.25	R 20.92	20.91	27.73	20.92
2021	—	R 5.88	28.86	25.11	26.85	14.73	81.25	29.74	15.49	27.18	27.18	28.45	27.18
2022	—	R 6.03	36.02	37.55	26.29	26.53	97.37	39.62	27.60	37.95	37.95	30.63	37.95
2023	—	6.87	32.62	33.02	21.19	21.31	105.48	36.22	22.37	33.85	33.85	33.45	33.85
	Expenditures in million dollars												
1970	(s)	—	3.3	37.4	0.1	8.6	15.0	356.7	4.8	426.0	426.0	—	426.0
1975	(s)	—	3.0	106.2	0.1	24.0	22.3	657.1	6.1	818.7	818.7	—	818.7
1980	—	—	11.8	358.9	1.3	86.5	46.1	1,526.7	28.8	2,060.1	2,060.1	—	2,060.1
1985	—	—	7.1	428.5	7.6	74.3	53.2	1,321.0	97.6	1,989.3	1,989.4	—	1,989.4
1990	—	—	5.7	523.5	7.7	111.3	67.8	1,540.7	83.6	2,340.3	2,340.3	0.3	2,340.6
1995	—	0.2	6.0	550.2	5.8	124.1	68.3	1,799.6	42.5	2,596.5	2,596.7	0.5	2,597.2
2000	—	0.5	7.6	893.8	4.0	250.5	77.8	2,434.3	31.5	3,699.4	3,699.8	1.9	3,701.8
2005	—	0.9	13.5	1,537.9	14.0	394.1	99.6	3,583.0	66.3	5,708.3	5,709.3	1.1	5,710.4
2006	—	1.3	22.9	1,800.7	12.7	495.6	120.9	4,108.7	71.5	6,633.1	6,634.4	1.2	6,635.5
2007	—	1.1	24.1	1,973.2	10.0	519.5	134.2	4,514.2	112.3	7,287.6	7,288.7	1.2	7,289.9
2008	—	1.5	25.5	2,434.6	24.6	706.3	145.6	5,030.9	153.1	8,520.6	8,522.1	1.3	8,523.4
2009	—	1.3	13.8	R 1,584.9	14.2	478.7	133.2	3,784.1	61.0	R 6,069.9	R 6,071.2	1.6	R 6,072.8
2010	—	1.0	17.5	R 2,028.5	0.7	418.3	118.3	4,348.6	151.5	R 7,083.5	R 7,084.5	1.8	R 7,086.3
2011	—	0.6	20.6	R 2,519.5	0.8	571.2	129.0	5,136.7	121.3	R 8,499.2	R 8,499.8	2.0	R 8,501.8
2012	—	0.7	20.6	R 2,633.6	0.5	588.1	122.9	5,297.0	117.7	R 8,780.5	R 8,781.2	2.0	R 8,783.2
2013	—	R 0.7	16.6	R 2,560.0	0.8	602.0	123.1	5,165.2	85.5	R 8,553.1	R 8,553.8	2.0	R 8,555.8
2014	—	R 0.8	15.3	R 2,560.1	0.9	560.4	126.1	5,113.0	15.4	R 8,391.2	R 8,392.0	2.2	R 8,394.1
2015	—	R 1.0	12.4	R 1,653.6	0.8	339.5	130.1	4,240.6	18.4	R 6,395.4	R 6,396.3	2.2	R 6,398.6
2016	—	R 1.2	11.0	R 1,396.6	1.0	292.7	118.5	3,802.5	—	R 5,622.2	R 5,623.4	2.2	R 5,625.6
2017	—	R 0.4	11.9	R 1,670.0	6.7	382.1	113.8	4,313.6	—	R 6,498.1	R 6,498.5	2.4	R 6,500.9
2018	—	R 0.4	16.6	R 2,070.9	2.7	552.3	118.4	4,955.6	—	R 7,716.5	R 7,716.9	2.4	R 7,719.3
2019	—	R 0.3	14.1	R 1,923.0	4.6	R 520.9	R 115.7	4,917.1	30.4	R 7,525.6	R 7,525.9	2.5	R 7,528.4
2020	—	R 0.3	8.4	R 1,687.3	1.1	R 224.5	R 109.0	3,600.3	37.1	R 5,667.7	R 5,668.0	2.4	R 5,670.4
2021	—	R 0.3	10.8	R 2,351.5	2.4	R 376.4	R 121.1	5,100.9	11.4	R 7,974.4	R 7,974.7	2.2	R 7,976.9
2022	—	R 0.1	14.0	R 3,687.3	6.2	R 743.1	R 150.3	6,620.4	20.8	R 11,242.1	R 11,242.2	2.4	R 11,244.6
2023	—	(s)	12.0	3,656.1	7.3	637.5	117.9	6,093.2	14.0	10,538.0	10,538.0	2.6	10,540.6

[a] Transportation use of natural gas as vehicle fuel only.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET7. Electric power sector price and expenditure estimates, selected years, 1970-2023, Oregon

Year	Coal	Natural gas [a]	Petroleum: Distillate fuel oil	Petroleum: Petroleum coke	Petroleum: Residual fuel oil	Petroleum: Total	Nuclear fuel	Biomass: Wood and waste [b]	Electricity imports [c]	Total energy [d]
	Prices in dollars per million Btu									
1970	—	0.37	0.83	—	0.80	0.80	—	0.65	—	0.48
1975	—	1.27	2.31	—	—	2.31	0.20	0.92	—	2.04
1980	1.41	4.29	6.53	—	—	6.53	0.36	1.74	—	0.59
1985	2.00	—	5.67	—	—	5.67	0.54	—	9.34	2.21
1990	1.08	3.03	3.47	—	—	3.47	0.44	0.85	8.37	1.02
1995	1.06	1.30	4.27	—	—	4.27	—	0.70	6.21	1.42
2000	1.07	2.90	8.59	—	—	8.59	—	0.67	16.78	2.28
2005	1.28	6.60	12.17	—	—	12.17	—	3.92	16.53	5.21
2006	1.30	5.81	14.06	—	—	14.06	—	4.22	17.32	4.88
2007	1.38	5.90	16.19	—	—	16.19	—	4.69	18.25	5.01
2008	1.45	6.94	9.76	—	—	9.76	—	2.66	18.28	5.65
2009	1.76	4.16	9.67	—	—	9.67	—	2.20	12.10	3.73
2010	1.67	4.47	16.27	—	—	16.27	—	2.40	13.31	3.76
2011	1.79	4.04	23.73	—	—	23.73	—	2.44	11.53	3.42
2012	1.89	3.09	22.68	—	—	22.68	—	2.21	9.51	2.96
2013	1.96	3.81	22.05	—	—	22.05	—	2.26	11.49	3.36
2014	2.49	4.27	20.84	—	—	20.84	—	2.73	13.31	3.85
2015	2.38	2.75	11.19	—	—	11.19	—	2.62	10.54	3.09
2016	2.25	2.35	11.19	—	—	11.19	—	2.54	8.74	2.50
2017	2.32	2.45	12.71	—	—	12.71	—	2.40	9.18	2.63
2018	2.34	2.23	17.24	—	—	17.24	—	2.22	10.74	2.35
2019	2.27	2.21	12.45	—	—	12.45	—	2.33	—	2.23
2020	2.18	2.02	13.73	—	—	13.73	—	1.80	—	2.03
2021	—	3.49	16.50	—	—	16.50	—	2.39	—	3.45
2022	—	5.69	23.43	—	—	23.43	—	2.69	—	5.56
2023	—	5.07	—	—	—	—	—	2.93	—	5.00
	Expenditures in million dollars									
1970	—	0.4	(s)	—	0.1	0.1	—	0.3	—	0.8
1975	—	(s)	0.4	—	—	0.4	(s)	(s)	—	0.4
1980	11.2	1.4	4.2	—	—	4.2	21.4	2.9	—	41.1
1985	13.9	—	0.1	—	—	0.1	39.9	—	162.5	216.3
1990	15.3	23.0	1.1	—	—	1.1	28.3	6.1	24.4	98.2
1995	18.4	25.6	0.3	—	—	0.3	—	5.0	17.5	66.8
2000	41.3	204.6	5.2	—	—	5.2	—	4.1	10.3	265.6
2005	45.2	592.2	6.6	—	—	6.6	—	27.9	29.4	701.4
2006	31.5	447.4	0.9	—	—	0.9	—	31.3	27.0	538.0
2007	59.5	619.2	0.8	—	—	0.8	—	31.4	89.7	800.7
2008	57.5	825.8	1.2	—	—	1.2	—	11.9	37.2	933.6
2009	54.8	462.0	0.3	—	—	0.3	—	11.4	31.4	559.9
2010	67.8	497.3	0.5	—	—	0.5	—	13.0	19.7	598.4
2011	59.5	247.6	1.6	—	—	1.6	—	12.0	27.8	348.5
2012	50.2	256.9	1.6	—	—	1.6	—	11.6	29.9	350.3
2013	72.2	398.2	1.3	—	—	1.3	—	14.7	14.7	501.1
2014	78.9	396.2	2.1	—	—	2.1	—	21.1	16.4	514.8
2015	57.6	325.7	0.7	—	—	0.7	—	17.9	85.2	487.1
2016	43.7	263.0	0.5	—	—	0.5	—	17.4	28.5	353.1
2017	41.2	268.7	1.3	—	—	1.3	—	14.8	35.4	361.4
2018	36.3	289.8	0.9	—	—	0.9	—	15.4	19.9	362.2
2019	59.6	334.3	1.0	—	—	1.0	—	15.4	—	410.4
2020	37.0	276.9	0.3	—	—	0.3	—	11.8	—	326.0
2021	—	543.7	(s)	—	—	(s)	—	16.7	—	560.3
2022	—	797.2	0.3	—	—	0.3	—	17.7	—	815.3
2023	—	881.3	—	—	—	—	—	16.0	—	897.2

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[c] Electricity imported from Canada and Mexico.
[d] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET1. Primary energy, electricity, and total energy price and expenditure estimates, selected years, 1970-2023, Pennsylvania

	Primary energy														Electric power sector [i,k,l]	Electricity [m]	Total energy [h,i,j]
	Coal				Petroleum								Biomass				
	Coking coal	Steam coal	Total	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Nuclear fuel	Wood and waste [g,h]	Total [h,i,j,k]			
Year	Prices in dollars per million Btu																
1970	0.44	0.35	0.39	0.87	1.17	1.78	0.72	2.92	0.47	2.01	1.73	0.21	0.96	0.97	0.34	5.23	1.47
1975	1.52	1.02	1.20	1.53	2.65	3.40	2.01	4.72	2.02	3.51	3.47	0.25	1.19	2.02	0.93	10.37	3.25
1980	2.20	1.34	1.58	3.37	6.70	6.22	6.27	9.71	4.30	8.14	7.73	0.42	1.84	4.00	1.55	15.17	6.37
1985	1.88	1.57	1.63	5.74	7.68	10.32	5.84	9.01	4.38	9.30	8.08	0.92	1.95	4.44	1.61	21.24	8.40
1990	1.71	1.52	1.56	5.28	7.66	11.90	5.59	9.35	3.20	7.94	8.02	0.83	1.75	4.03	1.35	22.43	8.56
1995	1.72	1.36	1.43	5.35	6.83	11.25	3.87	9.73	2.63	8.16	7.96	0.56	1.28	3.86	1.09	23.25	8.79
2000	1.66	1.17	1.23	6.81	10.17	14.90	6.81	12.12	3.64	10.66	10.58	0.48	1.34	4.82	1.00	22.43	10.70
2005	3.01	1.62	1.79	12.19	16.38	20.07	12.64	18.23	6.84	13.11	16.24	0.37	3.02	7.69	1.61	24.33	15.66
2006	3.33	1.75	1.94	12.89	18.63	22.39	14.56	20.91	7.87	16.68	19.07	0.40	3.09	8.59	1.56	25.50	17.57
2007	3.49	1.79	1.98	11.45	20.00	25.34	15.79	22.70	8.08	19.04	20.79	0.44	3.28	8.89	1.73	26.69	18.34
2008	4.41	2.14	2.41	13.09	26.23	30.24	23.07	26.65	12.19	22.02	25.77	0.47	3.85	10.92	2.10	27.44	21.41
2009	5.18	2.33	2.56	9.75	18.01	25.61	12.59	19.61	8.49	22.77	18.97	0.57	3.42	8.35	1.89	28.25	18.13
2010	5.47	2.44	2.75	8.73	21.52	28.93	16.10	23.21	12.02	R 22.67	R 22.42	0.65	3.77	9.08	2.12	30.29	R 19.62
2011	6.60	2.60	3.04	8.51	27.45	33.94	22.71	29.48	17.16	R 26.81	R 28.45	0.69	3.99	10.95	2.23	30.73	R 22.73
2012	6.32	2.49	3.00	7.09	29.00	28.38	23.18	30.58	17.37	R 27.25	29.27	0.75	3.88	10.96	1.97	29.12	22.77
2013	5.47	2.51	2.98	7.63	28.20	29.39	22.10	29.70	16.58	R 27.26	R 28.54	0.82	4.00	R 10.77	2.16	28.82	R 21.55
2014	4.47	2.55	2.89	8.19	27.53	31.15	20.90	28.73	16.07	R 26.46	27.78	0.78	4.41	10.89	2.36	30.20	21.30
2015	3.92	2.34	2.65	6.38	19.55	21.03	11.99	20.81	8.52	R 22.66	19.98	0.71	R 3.80	8.26	1.70	30.33	R 17.75
2016	3.49	1.96	2.23	5.26	16.47	19.64	9.49	18.81	6.60	R 19.18	17.56	0.68	R 3.26	7.16	1.39	29.96	16.63
2017	3.83	1.93	2.35	6.09	R 19.04	24.13	12.04	21.48	8.69	19.72	20.14	0.74	R 3.33	8.27	1.59	29.79	17.94
2018	4.11	2.13	2.63	R 6.56	22.00	26.24	15.86	23.52	10.62	23.36	22.63	0.73	R 3.65	9.23	1.81	29.70	18.96
2019	4.63	1.93	2.68	5.85	21.53	20.83	14.64	22.19	10.15	R 23.45	21.45	0.68	R 3.70	8.67	1.54	28.84	18.31
2020	3.96	1.80	2.41	4.75	18.41	18.12	8.97	19.17	7.68	R 22.59	18.57	0.64	R 2.91	7.22	1.24	28.46	R 17.08
2021	3.70	2.91	3.16	5.99	22.31	28.89	14.28	25.62	11.36	R 24.87	24.06	0.63	R 3.62	R 9.40	2.19	29.26	R 19.53
2022	6.07	3.25	4.26	R 8.75	35.70	18.06	26.76	33.59	18.88	R 31.72	32.37	0.63	R 4.87	13.17	R 3.54	34.82	R 25.10
2023	6.53	2.52	4.42	6.24	30.54	11.35	21.27	29.88	15.69	28.61	27.18	0.64	4.51	11.10	1.52	36.89	23.67
	Expenditures in million dollars																
1970	317.5	339.6	657.1	653.4	429.1	31.5	36.9	1,559.6	157.4	221.2	2,435.7	1.1	10.9	3,758.2	-296.5	1,329.8	4,791.6
1975	913.7	1,063.9	1,977.6	964.8	1,039.9	75.7	97.3	2,695.2	441.3	342.6	4,691.9	44.3	14.4	7,692.9	-1,047.7	3,060.5	9,705.8
1980	1,005.0	1,574.0	2,579.0	2,489.5	2,665.1	162.7	360.1	5,507.0	798.1	803.8	10,296.9	55.4	52.2	15,472.9	-1,997.2	5,096.8	18,572.5
1985	492.9	1,804.1	2,297.0	3,444.8	2,583.3	276.2	334.6	4,827.1	483.8	897.7	9,402.8	257.5	57.2	15,459.3	-2,228.4	7,202.9	20,433.8
1990	480.0	1,812.2	2,292.2	3,325.7	2,660.7	263.8	380.7	5,277.2	360.8	850.3	9,793.6	506.8	65.6	15,983.9	-2,369.5	8,722.9	22,337.3
1995	500.7	1,623.8	2,124.5	3,793.5	2,446.3	227.6	269.9	5,685.0	212.9	910.9	9,752.6	387.6	86.1	16,144.8	-2,044.5	9,923.4	24,023.6
2000	319.8	1,534.1	1,853.9	4,529.2	4,052.0	393.8	734.5	7,441.1	261.0	1,137.9	14,020.3	371.0	83.4	20,857.7	-2,068.0	10,158.8	28,948.6
2005	549.4	2,124.3	2,673.7	8,051.5	6,824.6	844.8	1,205.6	11,715.4	583.5	1,445.1	22,619.0	298.5	163.7	33,808.2	-3,519.9	12,118.5	42,406.8
2006	589.6	2,314.4	2,904.1	8,134.5	7,702.6	1,032.9	1,359.5	13,301.2	334.6	1,724.1	25,454.9	316.0	165.4	36,976.8	-3,387.8	12,560.4	46,149.4
2007	606.4	2,353.2	2,959.6	8,284.3	8,123.6	1,204.2	1,387.6	14,469.5	325.5	1,757.7	27,268.1	356.5	181.4	39,059.8	-3,879.6	13,618.7	48,798.9
2008	743.9	2,677.3	3,421.1	9,383.5	11,623.2	1,693.8	1,888.5	16,418.4	416.3	1,818.1	33,858.2	382.3	227.0	47,327.6	-4,622.3	13,880.5	56,585.9
2009	510.1	2,622.5	3,132.6	7,444.7	R 6,069.5	1,413.4	890.3	12,185.8	219.0	1,729.5	R 22,507.5	457.6	208.7	R 33,776.6	-4,044.6	13,643.6	R 43,375.6
2010	738.0	2,869.2	3,607.2	7,209.8	R 7,650.4	1,658.6	1,120.2	14,424.0	146.0	R 1,562.5	R 26,561.7	528.1	256.6	R 38,198.3	-4,717.7	15,222.4	R 48,702.9
2011	875.5	2,809.9	3,685.4	7,437.4	R 9,954.3	2,012.2	1,556.3	17,871.8	151.6	R 1,637.3	R 33,183.4	549.2	296.9	R 45,178.6	-4,862.2	15,382.9	R 55,699.3
2012	927.2	2,355.4	3,282.6	6,576.7	R 10,351.3	1,315.9	1,574.0	18,359.0	166.3	R 1,554.4	R 33,320.9	594.4	276.3	R 44,095.1	-4,215.3	14,218.8	R 54,098.5
2013	976.9	2,381.7	3,358.6	R 7,570.7	R 10,346.0	1,454.8	1,547.2	17,947.3	129.1	R 1,662.0	R 33,086.5	672.7	330.5	R 45,063.8	-4,617.7	14,242.2	R 54,688.3
2014	826.9	2,179.5	3,006.4	R 8,819.9	R 10,872.7	1,637.8	1,450.1	17,071.2	89.4	R 1,865.6	R 32,986.7	639.3	R 342.2	R 45,820.7	-4,897.7	14,984.4	R 55,907.4
2015	674.7	1,650.9	2,325.6	R 6,841.6	R 7,371.6	1,055.4	830.7	12,318.2	21.9	R 1,692.9	R 23,290.8	601.7	R 309.1	R 33,389.2	-3,410.7	14,979.7	R 44,958.2
2016	456.5	1,184.0	1,640.5	R 5,785.7	R 5,383.9	974.9	667.6	11,211.1	23.4	R 1,375.0	R 19,635.8	588.2	R 256.2	R 27,915.8	-2,763.3	14,702.2	R 39,854.6
2017	574.0	1,001.8	1,575.8	6,942.5	R 6,335.6	1,193.8	874.4	12,899.2	15.6	1,406.5	R 22,725.1	647.7	R 261.6	R 32,153.8	-3,094.4	14,376.2	R 43,435.5
2018	666.8	1,024.9	1,691.7	R 7,980.2	R 8,106.7	1,414.0	R 1,182.7	13,727.4	19.3	1,538.0	R 25,988.1	635.1	R 293.0	R 36,590.2	-3,502.3	14,937.3	R 48,025.3
2019	733.2	793.6	1,526.8	R 7,913.7	R 7,478.9	1,164.9	R 1,139.5	13,001.5	23.2	R 1,557.3	R 24,365.4	588.4	R 273.0	R 34,667.2	-3,059.7	14,203.0	R 45,810.6
2020	418.6	484.5	903.1	R 6,921.2	R 5,707.8	938.7	404.8	9,586.0	10.7	R 1,264.0	R 17,912.0	513.3	R 197.3	R 26,446.8	-2,406.0	13,516.5	R 37,557.3
2021	565.7	965.7	1,531.3	R 9,089.2	R 7,765.1	1,538.6	R 752.6	13,888.7	22.7	R 1,514.0	R 25,481.7	502.1	R 235.1	R 36,839.4	-4,417.7	14,250.4	R 46,672.2
2022	949.8	906.2	1,856.0	R 13,908.6	R 12,806.6	1,839.9	R 1,516.7	17,902.2	41.0	R 2,127.9	R 36,234.3	503.0	R 356.8	R 52,858.7	R -7,066.0	17,161.6	R 62,954.3
2023	953.0	406.9	1,359.9	9,979.1	10,560.5	1,647.9	1,334.6	15,880.8	26.2	1,811.3	31,261.3	505.1	311.9	43,417.3	-2,952.0	17,401.3	57,866.6

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[l] Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
[m] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.
Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET2. Total end-use energy price and expenditure estimates, selected years, 1970-2023, Pennsylvania

Year	Primary energy											Electricity [k]	Total energy [h,i,j]
			Petroleum							Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g,h]	Total [h,i,j]		
	Prices in dollars per million Btu												
1970	0.44	0.88	1.22	1.78	0.72	2.92	0.48	2.01	1.89	0.96	1.15	5.23	1.47
1975	1.48	1.53	2.67	3.40	2.01	4.72	2.00	3.51	3.56	1.19	2.47	10.37	3.25
1980	2.00	3.37	6.72	6.22	6.27	9.71	3.99	8.29	8.04	1.84	5.22	15.17	6.37
1985	1.81	5.74	7.72	10.32	5.84	9.01	4.50	9.71	8.39	1.95	6.32	21.24	8.40
1990	1.66	5.34	7.74	11.90	5.59	9.35	3.14	8.36	8.25	2.14	6.13	22.43	8.56
1995	1.62	5.56	6.90	11.25	3.87	9.73	2.68	8.73	8.18	1.68	6.11	23.25	8.79
2000	1.56	6.91	10.31	14.90	6.81	12.12	3.67	10.68	10.79	2.03	8.34	22.43	10.70
2005	2.77	12.52	16.46	20.07	12.64	18.23	6.98	13.45	16.62	3.64	13.71	24.33	15.66
2006	3.02	13.96	18.68	22.39	14.56	20.91	7.94	16.84	19.15	3.79	15.73	25.50	17.57
2007	3.18	12.40	20.09	25.34	15.79	22.70	8.30	19.04	20.92	4.07	16.36	26.69	18.34
2008	4.03	13.85	26.29	30.24	23.07	26.65	12.18	22.21	25.85	4.96	19.98	27.44	21.41
2009	4.49	11.84	18.07	25.61	12.59	19.61	8.58	22.99	19.05	4.49	15.57	28.25	18.13
2010	4.82	10.31	21.58	28.93	16.10	23.21	11.95	R 22.67	R 22.46	4.86	R 16.91	30.29	R 19.62
2011	5.80	10.64	27.51	33.94	22.71	29.48	16.95	R 26.81	R 28.48	4.97	20.67	30.73	R 22.73
2012	5.78	10.25	29.05	28.38	23.18	30.58	17.12	R 27.25	29.29	4.93	R 21.13	29.12	22.77
2013	5.11	9.88	28.24	29.39	22.10	29.70	16.35	R 27.26	R 28.56	4.88	R 19.79	28.82	R 21.55
2014	4.30	10.20	27.59	31.15	20.90	28.73	15.49	R 26.46	R 27.82	R 5.29	19.23	30.20	21.30
2015	3.83	9.31	R 19.62	21.03	11.99	20.81	8.52	R 22.66	R 20.01	R 4.39	14.70	30.33	R 17.75
2016	3.43	8.32	16.54	19.64	9.49	18.81	6.60	R 19.18	17.58	R 3.65	13.20	29.96	16.63
2017	3.78	9.33	19.09	24.13	12.04	21.48	8.69	19.72	20.16	R 3.82	14.99	29.79	17.94
2018	4.06	9.51	R 22.13	26.24	15.86	23.52	10.56	23.36	22.68	R 4.37	16.30	29.70	18.96
2019	4.55	R 9.58	21.58	20.83	14.64	22.19	10.12	R 23.45	21.47	R 4.37	15.73	28.84	18.31
2020	3.90	9.25	18.44	18.12	8.97	19.17	7.64	R 22.59	18.58	R 3.44	13.95	28.46	R 17.08
2021	3.69	9.70	R 22.33	28.89	14.28	25.62	11.34	R 24.87	24.07	R 4.16	R 17.04	29.26	R 19.53
2022	5.96	12.35	35.80	18.06	26.76	33.59	18.59	R 31.72	32.39	R 5.50	R 22.72	34.82	R 25.10
2023	6.48	12.91	30.57	11.35	21.27	29.88	15.61	28.61	27.19	5.00	20.51	36.89	23.67
	Expenditures in million dollars												
1970	443.5	649.4	417.8	31.5	36.9	1,559.6	90.8	221.2	2,357.9	10.9	3,461.8	1,329.8	4,791.6
1975	1,154.9	963.0	995.8	75.7	96.2	2,695.2	307.5	342.6	4,513.0	14.4	6,645.3	3,060.5	9,705.8
1980	1,214.6	2,478.9	2,588.9	162.7	360.1	5,507.0	308.9	802.5	9,730.1	52.2	13,475.7	5,096.8	18,572.5
1985	704.2	3,436.8	2,534.8	276.2	334.6	4,827.1	168.1	891.8	9,032.6	57.2	13,230.9	7,202.9	20,433.8
1990	687.0	3,284.5	2,592.4	263.8	380.7	5,277.2	222.5	844.9	9,581.4	61.5	13,614.4	8,722.9	22,337.3
1995	680.7	3,713.1	2,415.3	227.6	269.9	5,685.0	135.4	906.6	9,639.8	66.6	14,100.2	9,923.4	24,023.6
2000	462.9	4,450.2	3,953.0	393.8	734.5	7,441.1	154.2	1,137.7	13,814.3	62.3	18,789.7	10,158.8	28,948.6
2005	734.3	7,220.9	6,733.3	844.8	1,205.6	11,715.4	285.8	1,441.4	22,226.3	106.7	30,288.3	12,118.5	42,406.8
2006	773.4	7,351.1	7,651.4	1,032.9	1,359.5	13,301.2	290.0	1,722.9	25,357.9	106.4	33,589.0	12,560.4	46,149.4
2007	795.6	7,131.2	8,061.7	1,204.2	1,387.6	14,469.5	255.2	1,757.7	27,135.9	117.5	35,180.2	13,618.7	48,798.9
2008	936.6	7,908.5	11,530.0	1,693.8	1,888.5	16,418.4	362.2	1,816.5	33,709.3	150.9	42,705.3	13,880.5	56,585.9
2009	684.8	6,476.2	R 6,028.0	1,413.4	890.3	12,185.8	179.5	1,728.2	R 22,425.1	145.8	R 29,732.0	13,643.6	R 43,375.6
2010	919.3	5,915.7	R 7,581.4	1,658.6	1,120.2	14,424.0	114.5	R 1,562.5	R 26,461.2	184.3	R 33,480.6	15,222.4	R 48,702.9
2011	1,067.4	5,952.0	R 9,867.3	2,012.2	1,556.3	17,871.8	125.2	R 1,637.3	R 33,070.1	227.0	R 40,316.4	15,382.9	R 55,699.3
2012	1,089.2	5,336.3	R 10,283.2	1,315.9	1,574.0	18,359.0	152.5	R 1,554.4	R 33,238.9	215.3	R 39,879.7	14,218.8	R 54,098.5
2013	1,123.7	R 6,059.7	R 10,265.5	1,454.8	1,547.2	17,947.3	117.4	R 1,662.0	R 32,994.3	268.4	R 40,446.2	14,242.2	R 54,688.3
2014	965.8	R 6,864.1	R 10,735.9	1,637.8	1,450.1	17,071.2	63.9	R 1,865.6	R 32,824.5	R 268.6	R 40,923.0	14,984.4	R 55,907.4
2015	800.4	R 5,737.9	R 7,283.2	1,055.4	830.7	12,318.2	21.9	R 1,692.9	R 23,202.5	R 237.7	R 29,978.5	14,979.7	R 44,958.2
2016	550.7	R 4,813.6	R 5,349.4	974.9	667.6	11,211.1	23.4	R 1,375.0	R 19,601.3	R 187.0	R 25,152.5	14,702.2	R 39,854.6
2017	632.9	5,547.2	R 6,293.9	1,193.8	874.4	12,899.2	15.6	1,406.5	R 22,683.4	R 195.8	R 29,059.3	14,376.2	R 43,435.5
2018	715.1	R 6,273.1	R 7,985.4	1,414.0	R 1,182.7	13,727.4	18.5	1,538.0	R 25,866.0	R 233.7	R 33,087.9	14,937.3	R 48,025.3
2019	776.9	R 6,279.5	R 7,448.3	1,164.9	R 1,139.5	13,001.5	22.7	R 1,557.3	R 24,334.2	R 217.0	R 31,607.6	14,203.0	R 45,810.6
2020	461.1	R 5,520.2	R 5,698.6	938.7	404.8	9,586.0	10.2	R 1,264.0	R 17,902.4	R 157.3	R 24,040.9	13,516.5	R 37,557.3
2021	607.9	R 6,166.0	R 7,744.2	1,538.6	R 752.6	13,888.7	22.4	R 1,514.0	R 25,460.5	R 187.4	R 32,421.8	14,250.4	R 46,672.2
2022	1,000.6	R 8,329.1	R 12,726.5	1,839.9	R 1,516.7	17,902.2	37.6	R 2,127.9	R 36,150.8	R 312.2	R 45,792.7	17,161.6	R 62,954.3
2023	1,007.9	7,947.0	10,546.9	1,647.9	1,334.6	15,880.8	25.5	1,811.3	31,246.9	263.5	40,465.3	17,401.3	57,866.6

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. · Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2023, Pennsylvania

Year	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
	Prices in dollars per million Btu									
1970	1.03	1.20	1.35	2.43	1.57	1.40	0.40	1.25	7.15	1.97
1975	2.57	1.89	2.81	4.42	3.12	2.88	0.79	2.29	12.80	3.96
1980	2.70	3.73	6.95	9.00	8.05	7.09	2.02	4.88	17.42	7.12
1985	2.83	6.50	7.82	11.63	8.62	8.07	2.29	6.89	25.05	10.57
1990	2.96	6.36	7.84	12.94	7.97	8.17	2.83	6.76	27.03	11.69
1995	2.55	6.92	6.32	12.74	5.85	6.74	2.30	6.67	28.49	12.21
2000	2.51	8.20	9.36	16.35	9.34	10.04	3.50	8.73	27.94	13.74
2005	3.33	13.66	15.11	21.45	14.54	15.74	5.48	14.16	28.89	18.73
2006	3.59	15.84	17.54	24.31	17.83	18.39	6.31	16.46	30.33	21.16
2007	3.52	14.12	19.30	26.51	19.28	20.33	6.97	15.92	32.09	21.30
2008	—	15.61	24.32	31.04	26.78	25.12	8.59	19.38	33.27	23.59
2009	—	14.18	17.96	27.48	21.62	20.10	6.45	15.57	34.14	21.84
2010	—	12.44	21.43	30.10	24.30	23.17	7.61	15.54	37.22	23.02
2011	—	11.99	26.14	32.37	28.72	27.39	9.15	16.43	38.86	24.30
2012	—	11.48	29.86	30.69	30.15	30.02	10.19	16.77	37.37	24.39
2013	—	11.07	28.82	30.10	30.15	29.08	9.98	R 16.00	37.48	23.30
2014	—	11.20	28.12	32.75	30.23	28.98	9.73	R 16.20	39.03	R 23.45
2015	—	10.53	19.65	27.95	16.97	21.04	6.71	13.30	39.98	22.14
2016	—	9.76	16.89	27.76	13.53	18.84	5.73	R 12.05	40.64	R 22.20
2017	—	10.93	18.79	30.68	16.92	R 21.10	6.41	13.43	41.70	R 23.18
2018	—	10.82	20.69	30.74	25.20	22.66	7.09	13.88	40.71	22.66
2019	—	11.26	20.61	26.10	24.50	22.08	6.82	13.77	40.46	22.89
2020	—	11.04	17.60	22.83	22.52	18.89	5.64	R 12.69	39.81	R 22.66
2021	—	11.56	20.71	27.51	22.38	R 22.07	6.77	R 14.22	40.33	R 23.50
2022	—	14.39	32.88	30.00	40.57	32.41	R 10.47	R 19.01	46.73	R 28.58
2023	—	14.89	29.41	28.69	37.02	29.42	9.58	18.75	53.05	30.93
	Expenditures in million dollars									
1970	49.1	367.4	245.1	15.0	29.9	290.1	2.4	709.0	561.5	1,270.4
1975	32.4	527.3	517.2	30.6	35.8	583.5	4.8	1,148.0	1,208.5	2,356.5
1980	20.6	1,098.2	1,127.1	46.9	107.8	1,281.8	31.3	2,431.9	1,888.1	4,320.1
1985	18.8	1,644.9	1,101.5	87.6	139.5	1,328.5	32.9	3,025.2	2,793.4	5,818.6
1990	19.4	1,586.7	923.0	107.4	62.2	1,092.6	44.5	2,743.3	3,519.4	6,262.7
1995	9.8	1,877.1	746.8	128.9	68.5	944.1	32.7	2,863.7	4,160.6	7,024.3
2000	5.4	2,231.1	1,139.5	240.5	147.7	1,527.7	28.8	3,792.9	4,290.9	8,083.9
2005	4.2	3,482.9	1,748.5	324.4	150.2	2,223.1	51.2	5,761.4	5,289.4	11,050.8
2006	5.1	3,385.6	1,720.2	363.8	143.5	2,227.5	52.3	5,670.6	5,359.0	11,029.6
2007	6.3	3,390.9	1,913.7	459.1	103.4	2,476.1	63.9	5,937.2	5,976.9	11,914.1
2008	—	3,718.5	3,729.0	617.7	74.8	4,421.5	88.1	8,228.0	6,137.0	14,365.0
2009	—	3,356.5	1,380.1	592.9	84.1	2,057.1	94.3	5,507.9	6,162.2	11,670.1
2010	—	2,885.0	1,830.9	626.5	102.3	2,559.7	119.3	5,564.0	7,017.2	12,581.2
2011	—	2,734.3	2,106.0	632.2	73.9	2,812.1	139.1	5,685.4	7,265.4	12,950.9
2012	—	2,365.8	2,113.4	510.8	32.4	2,656.7	129.4	5,151.8	6,741.6	11,893.5
2013	—	2,696.5	R 2,289.8	562.5	34.7	R 2,887.1	165.4	R 5,749.0	6,938.4	R 12,687.4
2014	—	2,999.2	R 2,565.0	653.5	61.4	R 3,279.9	163.2	R 6,442.3	7,217.8	R 13,660.1
2015	—	2,601.8	R 1,708.5	509.5	22.9	R 2,241.0	141.8	R 4,984.6	7,423.1	R 12,407.7
2016	—	2,193.9	R 1,237.0	469.4	20.5	R 1,726.8	R 98.4	R 4,019.1	7,470.0	R 11,489.1
2017	—	2,493.6	R 1,342.1	542.0	15.6	R 1,899.7	R 108.3	R 4,501.6	7,359.0	R 11,860.6
2018	—	2,843.1	R 1,785.0	638.5	23.4	R 2,446.9	R 152.1	R 5,442.1	7,764.9	R 13,207.0
2019	—	2,768.6	R 1,376.6	620.0	25.9	R 2,022.5	R 138.7	R 4,929.7	7,508.6	R 12,438.4
2020	—	2,540.5	R 1,045.9	425.3	22.5	R 1,493.7	R 88.4	R 4,122.6	7,512.0	R 11,634.6
2021	—	2,719.7	R 1,554.3	517.6	23.7	R 2,095.6	R 109.7	R 4,925.0	7,697.6	R 12,622.6
2022	—	3,546.3	R 2,575.3	562.9	39.8	R 3,178.0	R 213.7	R 6,938.0	8,994.5	R 15,932.5
2023	—	3,191.2	2,164.0	493.2	62.6	2,719.7	166.1	6,077.0	9,472.2	15,549.2

[a] Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2023, Pennsylvania

Year	Primary energy										Electricity [j]	Total energy [g,h,i]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f,g]	Total [g,h,i]		
	Prices in dollars per million Btu											
1970	0.32	0.93	1.09	1.37	0.74	2.92	0.47	1.13	0.40	0.90	6.71	1.90
1975	1.25	1.67	2.48	2.75	2.52	4.72	2.02	2.57	0.79	1.90	11.88	4.34
1980	1.33	3.49	6.39	5.13	6.01	9.71	4.43	6.06	2.02	3.80	16.63	7.29
1985	1.61	5.99	6.50	8.87	8.62	9.01	4.70	6.52	2.29	5.58	23.28	10.97
1990	1.47	5.77	5.85	10.33	7.97	9.35	3.46	6.18	2.83	5.31	23.99	11.46
1995	1.35	6.06	4.62	10.21	5.85	9.73	2.80	4.88	1.75	5.21	24.66	11.93
2000	1.34	7.46	7.01	12.65	9.34	12.12	4.20	7.67	2.11	6.94	22.80	13.36
2005	2.21	12.53	13.32	17.83	14.54	18.23	7.56	13.48	3.77	11.93	24.90	17.37
2006	2.31	13.77	15.46	19.77	17.83	20.91	8.60	15.96	3.84	13.28	26.22	19.00
2007	2.45	12.30	17.04	21.56	19.28	22.70	9.60	17.48	4.38	12.38	26.98	18.74
2008	4.55	13.75	24.13	26.01	26.78	26.65	12.76	24.06	5.22	15.63	27.51	20.89
2009	4.72	11.38	14.94	20.99	21.62	19.61	9.54	16.10	4.18	11.88	27.98	19.16
2010	4.47	10.10	18.32	24.05	24.30	23.21	12.91	19.65	4.74	11.49	29.60	19.87
2011	5.19	10.02	24.53	27.41	28.72	29.48	18.07	25.35	5.61	12.31	29.39	19.92
2012	6.10	9.81	25.01	21.74	30.15	30.58	18.61	24.21	5.31	11.75	27.66	19.26
2013	5.12	9.63	24.82	21.41	30.15	29.70	17.63	23.93	5.54	11.47	27.11	18.29
2014	4.36	9.64	23.43	22.65	30.23	28.73	14.60	23.31	R 5.21	11.39	28.50	18.58
2015	4.46	8.89	14.13	13.65	16.97	20.81	8.98	16.33	R 4.28	R 10.20	28.13	R 17.70
2016	4.45	7.81	11.02	12.84	13.53	18.81	8.03	R 14.31	R 3.44	8.96	27.02	R 16.82
2017	4.55	8.78	13.63	16.80	16.92	21.48	8.82	R 17.05	R 3.66	10.29	26.31	R 17.08
2018	4.08	9.02	16.92	18.27	25.20	23.52	9.94	19.42	R 4.27	R 10.95	26.20	R 17.06
2019	4.33	9.13	15.77	14.56	24.50	22.19	—	17.78	R 4.23	10.73	25.54	R 16.48
2020	5.04	8.75	10.65	13.78	22.52	19.17	—	R 14.81	R 3.68	9.74	24.90	15.52
2021	4.93	9.23	16.88	21.11	22.38	25.62	11.71	20.88	4.33	11.44	26.11	16.99
2022	5.37	11.81	30.30	22.40	40.57	33.59	16.37	30.02	R 5.17	15.07	31.46	21.02
2023	6.50	12.58	23.15	18.14	37.02	29.88	14.52	24.89	4.89	14.69	33.01	21.41
	Expenditures in million dollars											
1970	12.1	95.9	34.4	3.2	1.2	37.6	15.4	91.8	(s)	199.8	307.6	507.5
1975	36.6	169.1	79.4	7.2	2.5	32.5	46.0	167.6	0.1	373.5	754.3	1,127.8
1980	38.2	422.8	218.2	10.1	6.6	16.0	42.4	293.2	0.8	754.9	1,234.2	1,989.2
1985	37.9	714.6	208.7	25.3	17.5	21.2	41.8	314.5	0.8	1,067.9	1,952.9	3,020.7
1990	38.6	754.0	226.4	32.5	6.8	34.4	17.3	317.4	4.9	1,114.9	2,472.0	3,587.0
1995	34.8	902.1	170.3	39.2	17.5	4.4	21.5	252.9	5.9	1,195.7	2,990.0	4,185.7
2000	23.3	1,121.9	224.1	70.5	21.5	9.2	16.7	342.1	6.1	1,493.4	3,343.7	4,837.1
2005	31.9	1,890.4	474.7	97.7	38.0	8.5	29.8	648.6	11.8	2,582.6	3,890.1	6,472.7
2006	33.0	1,863.7	511.6	120.3	42.4	9.9	15.5	699.7	11.4	2,607.8	4,081.0	6,688.8
2007	39.8	1,862.5	484.9	143.8	20.4	10.7	23.5	683.2	13.8	2,599.3	4,374.8	6,974.0
2008	23.8	2,066.4	858.5	167.9	8.8	12.4	19.3	1,067.0	17.2	3,174.3	4,443.8	7,618.1
2009	23.7	1,704.6	359.1	143.8	11.0	9.1	14.7	537.7	15.6	2,281.6	4,430.8	6,712.4
2010	21.1	1,483.6	432.7	164.8	18.4	10.6	7.4	633.9	18.4	2,157.0	4,783.8	6,940.8
2011	22.5	1,471.0	516.1	219.9	5.7	13.4	4.6	759.7	20.9	2,274.2	4,365.4	6,639.6
2012	20.0	1,299.8	427.2	140.2	2.0	13.8	3.0	586.2	20.7	1,926.8	4,050.4	5,977.2
2013	15.7	1,507.5	R 460.6	162.9	1.7	13.8	1.2	R 640.1	22.6	R 2,186.1	3,990.9	R 6,176.9
2014	13.4	1,617.1	R 465.6	186.4	6.4	12.8	1.2	R 672.4	R 23.4	2,326.3	4,215.6	6,541.9
2015	8.7	1,417.5	R 265.7	106.9	2.4	291.1	0.5	R 666.6	R 22.5	R 2,115.3	4,199.2	R 6,314.5
2016	4.6	1,163.2	R 168.8	104.4	3.0	265.0	1.0	R 542.2	R 16.9	R 1,726.9	4,013.9	R 5,740.8
2017	2.9	1,336.6	R 244.7	121.4	2.4	307.3	(s)	R 675.8	R 18.6	R 2,033.9	3,826.4	R 5,860.3
2018	1.5	1,547.2	R 344.6	153.7	4.5	342.1	(s)	R 844.9	R 21.3	R 2,414.9	3,864.3	R 6,279.2
2019	1.3	1,533.8	R 315.1	116.8	5.3	324.8	—	R 762.0	R 19.8	R 2,317.0	3,498.0	R 5,815.0
2020	1.1	1,348.5	R 146.3	109.7	4.0	282.6	—	R 542.6	R 19.5	R 1,911.8	3,006.4	R 4,918.2
2021	0.8	1,480.9	R 307.5	176.6	3.7	381.9	(s)	R 869.8	R 22.5	R 2,374.1	3,295.2	R 5,669.2
2022	0.4	2,046.3	R 568.5	181.4	6.2	514.9	(s)	R 1,271.1	R 35.9	R 3,353.7	3,995.0	R 7,348.7
2023	0.3	2,058.6	407.9	131.9	9.8	459.0	(s)	1,008.7	33.7	3,101.2	4,033.0	7,134.3

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[g] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[j] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: Expenditure totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2023, Pennsylvania

	Primary energy													
	Coal				Petroleum						Biomass			
	Coking coal	Steam coal	Total	Natural gas [a]	Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e,f]	Total [f,g,h]	Electricity [i]	Total energy [f,g,h]
Year	Prices in dollars per million Btu													
1970	0.44	0.32	0.41	0.57	0.70	1.45	2.92	0.50	1.82	1.01	1.60	0.56	3.55	0.79
1975	1.52	1.25	1.47	1.07	2.38	2.99	4.72	2.07	3.24	2.61	1.60	1.62	7.99	2.25
1980	2.20	1.33	2.03	3.00	5.67	5.59	9.71	4.07	7.68	6.17	1.62	3.04	12.87	4.24
1985	1.88	1.61	1.81	4.77	6.40	9.96	9.01	4.70	9.07	7.99	1.62	3.88	17.07	6.01
1990	1.71	1.47	1.65	4.01	5.89	11.51	9.35	3.46	7.20	6.54	1.08	3.39	17.51	5.67
1995	1.72	1.35	1.63	3.77	5.05	9.15	9.73	2.80	8.01	7.03	1.28	3.17	17.35	5.54
2000	1.66	1.34	1.56	4.95	7.74	13.36	12.12	4.20	9.67	9.07	1.40	4.21	16.50	6.54
2005	3.01	2.21	2.80	10.81	13.88	19.67	18.23	7.56	11.50	13.27	2.60	7.86	18.45	10.06
2006	3.33	2.31	3.06	11.84	15.87	21.88	20.91	8.60	14.45	15.99	2.53	9.26	19.44	11.36
2007	3.49	2.45	3.23	10.24	18.10	25.58	22.70	9.60	16.46	18.24	2.41	9.46	20.14	11.72
2008	4.41	2.90	4.02	11.64	25.06	30.74	26.65	12.76	18.96	22.94	2.70	11.54	20.61	13.45
2009	5.18	3.08	4.48	8.84	15.12	25.39	19.61	9.54	20.08	19.57	2.54	10.32	21.14	12.89
2010	5.47	3.15	4.83	7.94	18.09	29.26	23.21	12.91	R 19.09	R 21.18	2.53	R 10.04	22.44	R 12.75
2011	6.60	3.60	5.81	9.49	24.53	36.58	29.48	18.07	R 22.34	R 26.52	2.50	R 12.26	22.66	R 14.71
2012	6.32	3.69	5.77	9.18	25.63	28.59	30.58	18.61	R 22.67	R 25.34	2.41	R 11.65	21.18	R 13.86
2013	5.47	3.44	5.11	8.69	24.57	31.47	29.70	17.63	R 23.13	R 25.51	2.34	R 10.92	20.42	R 12.90
2014	4.47	3.43	4.30	9.47	22.72	32.77	28.73	14.60	R 22.66	R 24.60	2.78	R 10.99	21.72	R 13.14
2015	3.92	3.34	3.82	8.19	14.59	18.20	20.81	8.98	R 19.11	R 17.49	2.65	R 8.76	21.09	R 11.33
2016	3.49	3.12	3.42	7.10	11.62	16.30	18.81	8.03	R 15.68	R 14.81	2.46	R 7.69	20.29	R 10.56
2017	3.83	3.28	3.77	8.03	15.03	21.59	21.48	8.82	16.36	17.11	2.36	8.74	19.84	11.22
2018	4.11	3.46	4.06	8.36	16.14	25.23	23.52	9.94	19.69	19.72	2.24	9.47	20.04	11.84
2019	4.63	3.52	4.55	8.20	14.95	17.71	22.19	9.97	R 19.77	R 17.96	2.37	R 9.19	18.78	R 11.37
2020	3.96	3.36	3.90	7.68	10.67	16.00	19.17	7.86	R 18.72	R 15.88	2.00	R 8.46	18.05	10.94
2021	3.70	3.56	3.69	8.19	14.67	32.49	25.62	11.71	20.85	21.34	2.33	9.73	19.16	11.91
2022	6.07	4.51	5.96	10.76	27.92	14.51	33.59	16.37	R 27.03	22.53	R 2.13	R 12.57	24.07	R 15.01
2023	6.53	5.68	6.48	11.35	23.38	8.41	29.88	14.52	24.28	15.97	2.24	11.42	22.71	13.76
	Expenditures in million dollars													
1970	317.5	64.3	381.8	186.2	38.9	12.6	18.1	60.9	142.0	272.4	8.5	848.9	458.4	1,307.3
1975	913.7	172.0	1,085.7	266.6	144.8	36.2	27.2	196.0	247.2	651.5	9.5	2,013.2	1,092.1	3,105.4
1980	1,005.0	150.8	1,155.8	957.9	358.4	102.8	29.9	153.1	558.5	1,202.7	20.1	3,336.6	1,964.8	5,301.4
1985	492.9	154.7	647.5	1,077.2	235.6	153.7	60.4	70.5	592.6	1,112.8	23.5	2,861.1	2,430.3	5,291.4
1990	480.0	148.9	628.9	943.7	255.7	116.5	58.0	106.1	601.1	1,137.4	12.1	2,722.1	2,702.2	5,424.3
1995	500.7	135.5	636.2	933.1	125.4	50.7	47.3	36.1	646.2	905.7	28.0	2,503.0	2,744.0	5,247.0
2000	319.8	114.3	434.1	1,095.5	248.2	78.7	44.3	35.4	767.3	1,174.0	27.5	2,731.0	2,497.7	5,228.7
2005	549.4	148.9	698.3	1,843.9	445.4	408.0	174.2	61.2	997.1	2,085.8	43.7	4,671.7	2,875.4	7,547.1
2006	589.6	145.7	735.4	2,097.4	671.1	533.8	228.9	72.4	1,212.9	2,719.1	42.7	5,594.6	3,059.6	8,654.3
2007	606.4	143.1	749.5	1,874.4	820.6	589.6	179.9	65.4	1,290.0	2,945.4	39.8	5,609.1	3,199.4	8,808.5
2008	743.9	168.9	912.8	2,121.3	1,269.3	877.6	113.9	76.3	1,358.5	3,695.6	45.6	6,775.3	3,234.5	10,009.8
2009	510.1	151.0	661.1	1,413.7	479.0	658.9	83.8	41.2	1,296.1	2,559.0	36.0	4,669.9	2,982.3	7,652.1
2010	738.0	160.2	898.2	1,546.0	615.6	864.9	240.8	51.5	R 1,105.8	R 2,878.7	46.7	R 5,369.6	3,351.2	R 8,720.8
2011	875.5	169.3	1,044.8	1,745.6	995.5	1,157.2	185.2	78.0	R 1,171.5	R 3,587.4	67.0	R 6,444.9	3,677.0	R 10,121.9
2012	927.2	142.0	1,069.1	1,668.3	1,164.1	662.6	320.9	23.2	R 1,139.9	R 3,310.6	65.2	R 6,113.3	3,356.1	R 9,469.4
2013	976.9	131.1	1,108.0	1,853.2	1,232.5	726.7	320.6	14.1	R 1,250.5	R 3,544.4	80.4	R 6,586.0	3,249.4	R 9,835.4
2014	826.9	125.5	952.4	2,244.8	1,299.6	794.4	249.3	6.9	R 1,416.9	R 3,767.1	82.0	R 7,046.3	3,487.8	R 10,534.0
2015	674.7	116.9	791.6	1,714.7	744.5	434.0	157.2	4.0	R 1,284.1	R 2,623.8	73.5	R 5,203.6	3,296.7	R 8,500.3
2016	456.5	89.6	546.1	1,452.7	427.2	395.8	141.2	6.2	R 1,011.9	R 1,982.3	71.7	R 4,052.7	3,158.2	R 7,210.9
2017	574.0	56.0	630.0	1,705.3	628.7	514.0	163.2	4.9	1,067.7	2,378.6	68.8	4,782.7	3,136.7	7,919.4
2018	666.8	46.8	713.6	1,868.2	699.1	610.9	181.1	4.7	1,179.6	2,675.4	60.3	5,317.5	3,253.5	8,571.0
2019	733.2	42.3	775.5	1,963.1	655.2	421.2	170.5	5.5	R 1,194.9	R 2,447.2	58.5	R 5,244.4	3,151.4	R 8,395.8
2020	418.6	41.4	460.0	1,618.0	342.7	400.6	148.5	5.2	R 949.5	R 1,846.5	49.4	R 3,973.9	2,961.6	R 6,935.4
2021	565.7	41.3	607.0	1,950.8	629.8	834.5	195.9	6.2	R 1,153.5	R 2,819.9	55.2	R 5,432.9	3,229.7	R 8,662.7
2022	949.8	50.3	1,000.2	2,705.6	1,212.1	1,079.6	269.5	8.9	R 1,657.9	R 4,228.0	R 62.6	R 7,996.4	4,130.7	R 12,127.1
2023	953.0	54.5	1,007.5	2,679.3	990.6	1,011.0	241.3	5.9	1,407.1	3,655.8	63.8	7,406.4	3,851.7	11,258.2

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[i] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET6. Transportation sector energy price and expenditure estimates, selected years, 1970-2023, Pennsylvania

Year	Primary energy											Electricity [g]	Total energy [f]
			Petroleum										
	Coal	Natural gas[a]	Aviation gasoline	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Lubricants	Motor gasoline [e]	Residual fuel oil	Total	Total [f]		
	Prices in dollars per million Btu												
1970	0.32	—	2.17	1.35	1.37	0.72	5.08	2.92	0.42	2.48	2.47	3.66	2.48
1975	1.25	—	3.45	2.64	2.75	2.01	7.48	4.72	1.80	4.15	4.15	8.41	4.16
1980	—	—	9.02	7.05	5.13	6.27	14.36	9.71	3.76	8.85	8.85	15.14	8.86
1985	—	—	9.99	8.35	10.11	5.84	18.18	9.01	4.14	8.66	8.66	21.08	8.68
1990	—	4.69	9.32	8.79	12.22	5.59	20.61	9.35	2.82	8.77	8.77	21.63	8.79
1995	—	6.99	8.36	8.07	12.15	3.87	21.75	9.73	2.60	8.78	8.78	22.20	8.80
2000	—	4.73	10.87	11.84	15.76	6.81	23.20	12.12	3.45	11.29	11.29	19.41	11.30
2005	—	9.56	18.56	18.01	19.44	12.64	35.22	18.23	6.73	17.42	17.42	21.18	17.43
2006	—	13.03	22.31	20.11	21.73	14.56	43.88	20.91	7.68	19.93	19.92	21.85	19.93
2007	—	10.42	23.70	21.21	23.83	15.79	47.16	22.70	7.74	21.57	21.57	22.64	21.57
2008	—	7.99	27.23	28.51	27.56	23.07	55.12	26.65	11.99	26.59	26.58	22.17	26.57
2009	—	4.95	20.32	18.96	22.09	12.59	56.07	19.61	8.20	18.97	18.96	22.78	18.98
2010	—	3.63	25.19	22.59	25.93	16.10	58.80	23.21	11.08	22.67	22.66	23.17	22.66
2011	—	3.27	31.64	28.86	29.19	22.71	69.54	29.48	15.13	29.01	29.00	26.17	28.99
2012	—	7.62	33.04	29.80	23.60	23.18	72.11	30.58	16.84	29.94	29.93	23.65	29.91
2013	—	R 7.47	32.71	29.17	23.27	22.10	69.42	29.70	16.17	29.11	29.10	22.88	29.08
2014	—	R 7.39	33.16	29.00	25.30	20.90	69.44	28.73	15.63	28.37	28.36	22.42	28.34
2015	—	R 7.08	24.86	21.29	17.19	11.99	67.28	20.81	8.41	20.49	20.48	22.92	20.49
2016	—	R 7.21	21.62	17.74	16.38	9.49	65.78	18.81	6.11	18.03	18.03	22.38	18.04
2017	—	R 7.50	24.13	20.55	21.08	12.04	67.25	21.48	8.64	20.70	20.67	20.98	20.67
2018	—	R 7.82	27.04	24.46	22.38	15.86	72.37	23.52	10.80	23.32	R 23.29	22.79	23.28
2019	—	R 7.99	25.57	23.78	18.68	14.64	74.92	22.19	10.17	22.14	22.11	21.28	22.11
2020	—	R 7.96	22.34	20.44	17.62	8.97	75.34	19.17	7.41	19.17	19.14	25.15	19.15
2021	—	R 8.25	28.86	24.95	24.89	14.28	81.25	25.62	11.20	24.94	24.90	20.06	24.89
2022	—	R 9.65	36.02	38.93	25.44	26.76	97.37	33.59	19.41	34.86	34.76	22.89	34.73
2023	—	10.43	32.62	33.02	21.23	21.27	105.48	29.88	15.98	30.30	30.26	29.92	30.26
	Expenditures in million dollars												
1970	0.4	—	7.3	99.5	0.7	36.9	40.9	1,503.8	14.6	1,703.6	1,704.0	2.3	1,706.3
1975	0.1	—	7.4	254.4	1.7	96.2	49.7	2,635.5	65.5	3,110.4	3,110.5	5.6	3,116.1
1980	—	—	15.3	885.1	2.9	360.1	114.3	5,461.1	113.4	6,952.3	6,952.3	9.6	6,961.9
1985	—	—	10.5	989.1	9.7	334.6	131.7	4,745.5	55.7	6,276.8	6,276.8	26.3	6,303.1
1990	—	(s)	6.8	1,187.3	7.4	380.7	168.0	5,184.8	99.1	7,034.0	7,034.0	29.3	7,063.3
1995	—	0.8	5.3	1,372.8	8.8	269.9	169.1	5,633.2	77.9	7,537.1	7,537.9	28.7	7,566.6
2000	—	1.8	8.5	2,341.2	4.1	734.5	192.7	7,387.6	102.1	10,770.5	10,772.3	26.5	10,798.9
2005	—	3.8	9.4	4,064.8	14.7	1,205.6	246.8	11,532.8	194.8	17,268.8	17,272.6	63.5	17,336.2
2006	—	4.4	24.5	4,748.6	14.9	1,359.5	299.5	13,062.4	202.1	19,711.6	19,716.0	60.9	19,776.8
2007	—	3.3	11.5	4,842.6	11.9	1,387.6	332.4	14,278.9	166.3	21,031.2	21,034.6	67.6	21,102.2
2008	—	2.4	13.7	5,673.2	30.6	1,888.5	360.7	16,292.1	266.5	24,525.3	24,527.7	65.3	24,593.0
2009	—	1.4	7.1	R 3,809.7	17.8	890.3	329.9	12,092.9	123.6	R 17,271.2	R 17,272.6	68.3	R 17,340.9
2010	—	1.1	13.5	R 4,702.1	2.5	1,120.2	322.5	14,172.6	55.6	R 20,389.0	R 20,390.1	70.1	R 20,460.2
2011	—	1.0	18.5	R 6,249.7	2.8	1,556.3	367.8	17,673.2	42.6	R 25,910.9	R 25,911.9	75.0	R 25,986.9
2012	—	2.4	20.3	R 6,578.4	2.4	1,574.0	359.9	18,024.3	126.2	R 26,685.4	R 26,687.8	70.6	R 26,758.4
2013	—	R 2.4	17.5	R 6,282.6	2.8	1,547.2	357.5	17,612.9	102.2	R 25,922.7	R 25,925.1	63.5	R 25,988.6
2014	—	R 3.1	16.3	R 6,405.8	3.5	1,450.1	364.6	16,809.0	55.9	R 25,105.1	R 25,108.1	63.3	R 25,171.4
2015	—	R 4.0	12.8	R 4,564.6	5.0	830.7	370.5	11,869.9	17.4	R 17,671.1	R 17,675.1	60.7	R 17,735.7
2016	—	R 3.7	7.9	R 3,516.4	5.3	667.6	331.7	10,804.9	16.2	R 15,350.0	R 15,353.7	60.1	R 15,413.8
2017	—	11.8	8.9	R 4,078.4	16.4	874.4	311.9	12,428.7	10.7	R 17,729.3	R 17,741.2	54.0	R 17,795.2
2018	—	R 14.6	10.0	R 5,156.7	10.9	R 1,182.7	320.5	13,204.3	13.7	R 19,898.8	R 19,913.5	54.7	R 19,968.2
2019	—	R 13.9	10.9	5,101.4	6.9	R 1,139.5	R 320.4	12,506.3	17.2	R 19,102.5	R 19,116.4	44.9	R 19,161.4
2020	—	R 13.2	7.6	R 4,163.6	3.1	404.8	R 280.5	9,154.9	5.0	R 14,019.4	R 14,032.6	36.5	R 14,069.1
2021	—	R 14.6	11.1	R 5,252.6	9.9	R 752.6	R 321.9	13,310.8	16.1	R 19,675.1	R 19,689.8	27.9	R 19,717.7
2022	—	R 31.0	14.4	R 8,370.5	16.0	R 1,516.7	R 409.5	17,117.8	28.6	R 27,473.7	R 27,504.6	41.4	R 27,546.0
2023	—	17.9	12.4	6,984.5	11.8	1,334.6	319.4	15,180.5	19.6	23,862.7	23,880.6	44.3	23,924.9

[a] Transportation use of natural gas as vehicle fuel only.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET7. Electric power sector price and expenditure estimates, selected years, 1970-2023, Pennsylvania

Year	Coal	Natural gas [a]	Petroleum: Distillate fuel oil	Petroleum: Petroleum coke	Petroleum: Residual fuel oil	Petroleum: Total	Nuclear fuel	Biomass: Wood and waste [b]	Electricity imports [c]	Total energy [d]
	Prices in dollars per million Btu									
1970	0.31	0.41	0.49	—	0.47	0.47	0.21	—	—	0.34
1975	0.96	1.47	2.27	—	2.07	2.12	0.25	—	—	0.93
1980	1.33	3.60	5.85	0.72	4.52	4.60	0.42	—	—	1.55
1985	1.56	5.08	5.85	1.27	4.32	4.30	0.92	—	—	1.61
1990	1.52	2.95	5.48	0.90	3.31	3.52	0.83	0.46	—	1.35
1995	1.36	1.98	3.80	0.55	2.55	2.43	0.56	0.70	6.21	1.09
2000	1.15	3.71	6.57	0.74	3.58	4.57	0.48	0.67	—	1.00
2005	1.58	9.94	12.32	1.21	6.71	7.16	0.37	2.28	16.53	1.61
2006	1.71	7.50	13.54	1.21	7.47	9.00	0.40	2.32	17.32	1.56
2007	1.74	7.77	12.77	—	7.38	9.20	0.44	2.42	18.25	1.73
2008	2.09	10.12	20.30	2.01	12.27	15.22	0.47	2.66	18.28	2.10
2009	2.29	4.47	12.15	1.72	8.10	9.06	0.57	2.20	12.10	1.89
2010	2.40	5.13	16.26	—	12.26	14.75	0.65	2.40	13.31	2.12
2011	2.55	4.72	22.44	—	18.24	21.30	0.69	2.44	11.53	2.23
2012	2.43	3.05	23.56	—	20.68	23.02	0.75	2.21	9.51	1.97
2013	2.47	4.00	24.43	—	19.32	23.64	0.82	2.26	11.49	2.16
2014	2.51	4.84	23.67	—	17.75	22.49	0.78	2.73	13.31	2.36
2015	2.28	2.42	14.70	—	—	14.70	0.71	2.62	10.54	1.70
2016	1.90	1.87	10.23	1.23	—	10.21	0.68	2.54	8.74	1.39
2017	1.88	2.56	13.96	—	—	13.96	0.74	2.40	9.18	1.59
2018	2.09	3.06	15.58	—	12.46	15.56	0.73	2.22	10.74	1.81
2019	1.88	2.35	14.06	—	11.95	14.02	0.68	2.33	—	1.54
2020	1.73	1.63	9.49	—	8.81	9.46	0.64	1.80	—	1.24
2021	2.88	3.31	15.06	—	13.27	15.04	0.63	2.39	—	2.19
2022	3.20	R 6.10	25.10	—	22.94	25.01	0.63	2.69	—	R 3.54
2023	2.31	2.07	19.74	—	18.98	19.70	0.64	2.93	—	1.52
	Expenditures in million dollars									
1970	213.6	4.0	11.3	—	66.6	77.8	1.1	—	—	296.5
1975	822.7	1.8	45.2	—	133.8	178.9	44.3	—	—	1,047.7
1980	1,364.4	10.5	76.2	1.4	489.2	566.8	55.4	—	—	1,997.2
1985	1,592.7	8.0	48.5	6.0	315.7	370.2	257.5	—	—	2,228.4
1990	1,605.3	41.2	68.3	5.4	138.4	212.1	506.8	4.1	—	2,369.5
1995	1,443.8	80.5	31.0	4.3	77.4	112.7	387.6	19.5	0.5	2,044.5
2000	1,391.0	78.9	99.1	0.1	106.8	205.9	371.0	21.0	—	2,068.0
2005	1,939.4	830.6	91.2	3.7	297.8	392.7	298.5	57.0	1.7	3,519.9
2006	2,130.6	783.3	51.2	1.2	44.6	97.0	316.0	59.0	1.9	3,387.8
2007	2,164.0	1,153.1	61.9	—	70.3	132.2	356.5	64.0	9.8	3,879.6
2008	2,484.6	1,475.0	93.2	1.6	54.1	148.9	382.3	76.1	55.4	4,622.3
2009	2,447.8	968.5	41.6	1.4	39.5	82.4	457.6	62.9	25.5	4,044.6
2010	2,687.9	1,294.1	69.0	—	31.5	100.5	528.1	72.3	34.9	4,717.7
2011	2,618.0	1,485.4	86.9	—	26.4	113.4	549.2	70.0	26.2	4,862.2
2012	2,193.4	1,240.4	68.1	—	13.8	82.0	594.4	61.0	44.2	4,215.3
2013	2,234.9	1,511.0	80.5	—	11.7	92.2	672.7	62.1	44.8	4,617.7
2014	2,040.6	1,955.8	136.8	—	25.4	162.2	639.3	73.6	26.2	4,897.7
2015	1,525.2	1,103.7	88.3	—	—	88.3	601.7	71.4	20.4	3,410.7
2016	1,089.8	972.2	34.5	(s)	—	34.5	588.2	69.3	9.4	2,763.3
2017	942.9	1,395.3	41.7	—	—	41.7	647.7	65.9	1.0	3,094.4
2018	976.6	1,707.1	121.3	—	0.7	122.1	635.1	59.3	2.1	3,502.3
2019	749.9	1,634.2	30.6	—	0.5	31.1	588.4	56.0	—	3,059.7
2020	442.0	1,401.1	9.1	—	0.5	9.6	513.3	40.0	—	2,406.0
2021	923.5	2,923.2	20.9	—	0.3	21.2	502.1	47.7	—	4,417.7
2022	855.5	R 5,579.5	80.1	—	3.4	83.5	503.0	44.6	—	R 7,066.0
2023	352.1	2,032.1	13.6	—	0.7	14.4	505.1	48.4	—	2,952.0

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[c] Electricity imported from Canada and Mexico.
[d] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET1. Primary energy, electricity, and total energy price and expenditure estimates, selected years, 1970-2023, Rhode Island

Year	Primary energy														Electric power sector [i,k,l]	Electricity [m]	Total energy [h,i,j]
	Coal				Petroleum								Biomass				
	Coking coal	Steam coal	Total	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Nuclear fuel	Wood and waste [g,h]	Total [h,i,j,k]			
	Prices in dollars per million Btu																
1970	—	0.94	0.94	1.38	1.35	1.66	0.75	2.90	0.43	1.38	1.41	—	2.56	1.42	0.43	6.85	1.92
1975	—	2.64	2.64	2.74	2.76	3.42	2.09	4.50	1.92	2.53	3.17	—	2.51	3.10	1.84	13.78	4.14
1980	—	1.92	1.92	5.09	7.06	6.40	6.51	9.72	4.03	5.83	7.59	—	2.85	6.96	3.91	20.67	8.95
1985	—	2.62	2.62	6.66	8.01	12.18	6.10	9.13	4.66	5.80	7.65	—	3.22	7.40	4.74	24.73	9.56
1990	—	2.90	2.90	5.49	8.45	12.65	6.03	10.03	3.41	4.82	8.25	—	2.05	7.37	2.36	26.81	10.48
1995	—	2.49	2.49	4.15	6.98	12.16	4.19	10.52	2.97	5.88	8.32	—	1.80	6.13	2.28	30.43	9.89
2000	—	2.23	2.23	6.11	10.11	16.05	6.91	12.85	4.63	11.86	11.17	—	2.19	8.88	5.76	29.82	13.14
2005	—	3.30	3.30	11.28	16.00	22.44	12.74	18.46	7.41	14.02	16.68	—	5.25	14.21	9.70	35.08	19.02
2006	—	3.68	3.68	11.17	18.74	25.47	14.92	21.30	9.04	18.05	19.78	—	2.99	15.71	7.57	40.96	22.56
2007	—	3.75	3.75	10.76	20.36	28.77	16.47	22.69	9.21	38.42	21.62	—	3.22	16.08	8.05	38.44	22.96
2008	—	—	—	12.34	26.30	34.16	23.06	26.44	12.77	13.27	24.90	—	3.76	18.51	10.37	47.00	26.42
2009	—	—	—	8.96	18.21	29.76	12.87	19.72	8.75	19.25	18.66	—	3.69	13.68	5.13	41.68	21.52
2010	—	—	—	8.92	22.15	30.38	16.41	23.47	12.98	R 18.75	R 22.33	—	4.27	R 15.37	5.54	41.25	R 23.64
2011	—	—	—	8.02	26.83	34.84	22.95	30.07	16.99	R 22.72	R 28.10	—	4.95	R 16.98	5.18	38.22	R 26.21
2012	—	—	—	6.88	29.15	30.87	23.55	31.05	19.42	R 22.67	R 29.45	—	5.37	R 17.07	3.88	37.34	R 26.61
2013	—	—	—	R 8.66	28.30	30.22	22.59	30.30	19.40	R 21.50	R 28.52	—	7.29	R 18.37	5.80	40.20	R 26.24
2014	—	—	—	9.68	27.54	34.10	21.02	29.12	18.56	R 21.78	R 27.73	—	R 5.10	R 18.53	6.65	45.17	R 26.60
2015	—	—	—	R 7.47	19.14	25.87	12.79	20.59	10.39	R 19.05	R 19.77	—	R 4.10	R 13.32	3.85	49.86	R 22.63
2016	—	—	—	6.94	16.05	26.44	10.41	18.53	7.60	R 15.88	R 17.49	—	R 3.52	R 11.80	3.43	47.71	R 21.29
2017	—	—	—	7.02	R 18.09	28.95	12.30	20.81	9.59	16.63	19.61	—	R 3.64	12.66	3.65	48.13	R 22.32
2018	—	—	—	R 8.03	R 20.99	32.12	16.27	23.22	11.82	19.65	R 22.35	—	R 3.58	14.39	4.21	53.05	24.86
2019	—	—	—	R 7.58	R 20.40	27.94	15.21	21.76	10.71	20.83	R 21.30	—	R 3.92	13.68	3.20	54.18	R 24.33
2020	—	—	—	R 6.35	R 17.05	25.99	10.58	18.32	10.08	R 18.86	18.06	—	R 2.89	R 11.06	2.30	54.34	R 23.06
2021	—	—	—	R 7.87	R 20.25	31.87	15.33	24.91	12.97	R 20.76	R 22.95	—	R 3.91	14.32	4.32	54.05	R 25.61
2022	—	—	—	R 11.35	R 31.96	35.25	26.99	33.54	21.82	R 26.40	R 32.30	—	R 5.66	R 21.02	R 8.30	56.56	R 31.84
2023	—	—	—	8.31	28.10	32.54	21.67	29.53	19.03	24.36	28.54	—	5.07	16.72	3.72	63.37	31.52
	Expenditures in million dollars																
1970	—	0.2	0.2	35.2	67.9	2.3	0.6	122.0	25.7	15.0	233.6	—	6.8	275.8	-9.3	90.7	357.1
1975	—	0.4	0.4	64.3	128.5	6.2	3.2	211.9	52.9	30.8	433.4	—	5.0	503.0	-18.1	209.3	694.2
1980	—	0.3	0.3	142.7	207.0	6.9	12.8	429.7	63.9	60.4	780.7	—	8.3	932.0	-47.5	361.9	1,246.4
1985	—	0.6	0.6	204.6	230.6	22.7	17.1	415.6	65.5	124.5	875.9	—	6.5	1,101.0	-40.9	458.2	1,518.4
1990	—	0.4	0.4	221.6	260.0	23.6	26.4	461.7	30.5	60.1	862.4	—	6.2	1,091.6	-30.0	587.3	1,648.8
1995	—	0.2	0.2	427.4	237.1	21.0	11.8	488.6	17.4	46.5	822.4	—	5.9	1,282.9	-97.0	688.9	1,874.8
2000	—	0.1	0.1	559.0	321.1	26.7	50.3	632.7	19.8	34.8	1,085.5	—	7.0	1,763.2	-335.3	743.0	2,170.9
2005	—	0.2	0.2	921.8	575.1	36.0	59.6	883.3	33.9	50.1	1,638.0	—	2.4	2,585.4	-449.9	963.4	3,098.9
2006	—	0.2	0.2	868.1	579.6	39.0	50.2	1,088.0	27.2	60.1	1,844.0	—	6.7	2,743.0	-356.6	1,090.0	3,476.4
2007	—	0.1	0.1	962.1	680.7	44.6	31.3	1,135.2	23.8	43.6	1,959.2	—	7.6	2,963.5	-456.6	1,051.0	3,558.0
2008	—	—	—	1,114.6	765.0	52.2	39.2	1,313.0	19.4	124.5	2,313.3	—	9.4	3,478.1	-606.9	1,253.8	4,124.9
2009	—	—	—	842.1	588.0	44.6	50.6	948.2	30.1	120.7	1,782.2	—	10.2	2,667.0	-313.7	1,083.2	3,436.5
2010	—	—	—	840.2	693.9	41.6	57.8	1,115.4	18.9	R 134.2	R 2,061.9	—	12.2	R 2,937.0	-340.4	1,097.7	R 3,694.2
2011	—	—	—	813.1	R 777.8	53.0	87.8	1,345.5	19.1	R 124.0	R 2,407.3	—	13.1	R 3,257.4	-358.1	1,008.3	R 3,907.7
2012	—	—	—	670.3	803.2	45.3	81.0	1,346.6	6.0	R 135.0	R 2,417.0	—	11.3	R 3,098.6	-247.5	982.1	R 3,833.1
2013	—	—	—	R 754.8	R 825.1	52.0	74.8	1,323.0	4.5	R 162.6	R 2,441.9	—	12.0	R 3,214.7	-285.5	1,067.3	R 3,996.4
2014	—	—	—	R 854.6	R 897.4	72.5	62.5	1,287.8	5.3	R 167.9	R 2,493.4	—	R 16.3	R 3,372.2	-327.9	1,178.0	R 4,222.3
2015	—	—	—	R 696.9	R 597.1	52.2	40.7	940.3	3.1	R 140.0	R 1,773.4	—	R 14.1	R 2,490.3	-211.1	1,304.0	R 3,583.1
2016	—	—	—	R 596.1	R 339.5	56.6	31.0	833.3	3.0	R 99.2	R 1,362.6	—	R 10.9	R 1,973.8	-175.0	1,225.0	R 3,023.8
2017	—	—	—	R 645.0	R 396.0	66.3	34.3	933.3	1.6	111.8	R 1,543.2	—	R 10.9	R 2,205.2	-201.7	1,212.7	R 3,216.3
2018	—	—	—	R 821.5	R 575.9	96.1	40.5	1,086.9	0.3	127.2	R 1,927.0	—	R 11.0	R 2,764.5	-261.1	1,372.8	R 3,876.2
2019	—	—	—	R 723.3	R 492.0	74.2	R 34.7	1,000.2	0.6	121.7	R 1,723.4	—	R 13.3	R 2,460.0	-176.7	1,358.8	R 3,642.2
2020	—	—	—	R 626.8	R 377.5	64.5	18.2	704.6	0.2	R 125.4	R 1,290.5	—	R 12.0	R 1,929.2	-145.0	1,362.9	R 3,147.1
2021	—	—	—	R 812.5	R 576.7	80.7	23.1	1,039.9	1.1	R 140.4	R 1,861.8	—	R 13.2	R 2,687.5	-284.5	1,364.3	R 3,767.3
2022	—	—	—	R 1,030.5	R 930.8	88.1	R 56.7	1,428.9	1.8	R 173.3	R 2,679.6	—	R 21.2	R 3,731.3	R -452.1	1,462.2	R 4,741.5
2023	—	—	—	909.1	807.3	73.1	46.7	1,265.0	1.3	134.4	2,327.8	—	19.5	3,256.5	-279.6	1,578.5	4,555.4

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[l] Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
[m] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET2. Total end-use energy price and expenditure estimates, selected years, 1970-2023, Rhode Island

Year	Primary energy											Electricity [k]	Total energy [h,i,j]
			Petroleum							Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g,h]	Total [h,i,j]		
	Prices in dollars per million Btu												
1970	0.94	1.48	1.36	1.66	0.75	2.90	0.42	1.38	1.54	2.56	1.54	6.85	1.92
1975	2.64	2.74	2.76	3.42	2.09	4.50	1.96	2.53	3.27	2.51	3.18	13.78	4.14
1980	1.92	5.20	7.07	6.40	6.51	9.72	4.13	5.83	8.00	2.85	7.26	20.67	8.95
1985	2.62	6.97	8.02	12.18	6.10	9.13	4.96	5.80	7.80	3.22	7.56	24.73	9.56
1990	2.90	6.50	8.46	12.65	6.03	10.03	3.35	4.82	8.35	2.83	7.84	26.81	10.48
1995	2.49	5.43	6.99	12.16	4.19	10.52	2.99	5.88	8.35	2.30	7.11	30.43	9.89
2000	2.23	8.13	10.13	16.05	6.91	12.85	4.63	11.86	11.18	3.40	10.17	29.82	13.14
2005	3.30	13.46	16.02	22.44	12.74	18.46	7.41	14.02	16.69	5.25	15.76	35.08	19.02
2006	3.68	15.97	18.76	25.47	14.92	21.30	9.04	18.05	19.79	5.99	18.72	40.96	22.56
2007	3.75	14.93	20.39	28.77	16.47	22.69	9.21	38.42	21.63	6.62	19.64	38.44	22.96
2008	—	15.39	26.34	34.16	23.06	26.44	12.77	13.27	24.92	8.18	22.18	47.00	26.42
2009	—	15.17	R 18.23	29.76	12.87	19.72	8.75	19.25	18.67	6.33	17.60	41.68	21.52
2010	—	14.56	22.18	30.38	16.41	23.47	12.98	R 18.75	R 22.34	7.38	R 20.03	41.25	R 23.64
2011	—	13.46	26.85	34.84	22.95	30.07	16.99	R 22.72	R 28.11	8.52	R 23.63	38.22	R 26.21
2012	—	12.29	29.19	30.87	23.55	31.05	19.42	R 22.67	R 29.46	9.40	R 24.21	37.34	R 26.61
2013	—	R 12.32	28.38	30.22	22.59	30.30	19.40	R 21.50	R 28.54	9.30	R 23.30	40.20	R 26.24
2014	—	13.10	27.68	34.10	21.02	29.12	18.56	R 21.78	R 27.79	R 9.12	R 22.95	45.17	R 26.60
2015	—	R 12.19	19.21	25.87	12.79	20.59	10.39	R 19.05	R 19.80	R 6.38	R 17.25	49.86	R 22.63
2016	—	R 11.50	16.12	26.44	10.41	18.53	7.60	R 15.88	R 17.52	R 5.36	R 15.46	47.71	R 21.29
2017	—	R 11.63	18.17	28.95	12.30	20.81	9.59	16.63	19.64	R 5.95	16.85	48.13	R 22.32
2018	—	R 13.36	21.11	32.12	16.27	23.22	11.82	19.65	R 22.40	R 6.31	19.25	53.05	24.86
2019	—	R 13.02	20.41	27.94	15.21	21.76	10.71	20.83	21.30	6.31	R 18.32	54.18	R 24.33
2020	—	R 12.60	R 17.06	25.99	10.58	18.32	10.08	R 18.86	18.06	R 5.24	R 16.02	54.34	R 23.06
2021	—	R 13.53	R 20.26	31.87	15.33	24.91	12.97	R 20.76	R 22.96	R 6.24	R 19.72	54.05	R 25.61
2022	—	R 15.27	R 32.16	35.25	26.99	33.54	21.82	R 26.40	R 32.37	R 9.64	R 26.65	56.56	R 31.84
2023	—	17.40	28.16	32.54	21.67	29.53	19.03	24.36	28.56	8.75	24.88	63.37	31.52
	Expenditures in million dollars												
1970	0.2	34.3	67.7	2.3	0.6	122.0	17.5	15.0	225.2	6.8	266.5	90.7	357.1
1975	0.4	64.3	128.2	6.2	3.2	211.9	35.1	30.8	415.3	5.0	484.9	209.3	694.2
1980	0.3	137.0	206.0	6.9	12.8	429.7	23.1	60.4	738.9	8.3	884.5	361.9	1,246.4
1985	0.6	195.7	229.9	22.7	17.1	415.6	47.5	124.5	857.3	6.5	1,060.1	458.2	1,518.4
1990	0.4	201.3	259.5	23.6	26.4	461.7	22.8	60.1	854.1	5.8	1,061.6	587.3	1,648.8
1995	0.2	359.8	236.5	21.0	11.8	488.6	16.4	46.5	820.8	5.2	1,185.9	688.9	1,874.8
2000	0.1	337.8	319.6	26.7	50.3	632.7	19.8	34.8	1,084.0	6.1	1,427.9	743.0	2,170.9
2005	0.2	496.8	573.2	36.0	59.6	883.3	33.9	50.1	1,636.1	2.4	2,135.5	963.4	3,098.9
2006	0.2	541.9	577.6	39.0	50.2	1,088.0	27.2	60.1	1,842.0	2.5	2,386.5	1,090.0	3,476.4
2007	0.1	547.9	677.5	44.6	31.3	1,135.2	23.8	43.6	1,956.0	3.0	2,507.0	1,051.0	3,558.0
2008	—	558.3	760.5	52.2	39.2	1,313.0	19.4	124.5	2,308.8	4.0	2,871.2	1,253.8	4,124.9
2009	—	566.3	R 586.4	44.6	50.6	948.2	30.1	120.7	1,780.7	6.3	R 2,353.2	1,083.2	3,436.5
2010	—	528.9	691.8	41.6	57.8	1,115.4	18.9	R 134.2	R 2,059.8	7.9	R 2,596.6	1,097.7	R 3,694.2
2011	—	485.7	774.9	53.0	87.8	1,345.5	19.1	R 124.0	R 2,404.3	9.3	R 2,899.4	1,008.3	R 3,907.7
2012	—	429.2	R 799.2	45.3	81.0	1,346.6	6.0	R 135.0	R 2,413.1	8.7	R 2,851.0	982.1	R 3,833.1
2013	—	R 484.0	R 817.4	52.0	74.8	1,323.0	4.5	R 162.6	R 2,434.2	10.9	R 2,929.2	1,067.3	R 3,996.4
2014	—	R 552.2	R 885.4	72.5	62.5	1,287.8	5.3	R 167.9	R 2,481.3	R 10.8	R 3,044.3	1,178.0	R 4,222.3
2015	—	R 510.8	R 583.3	52.2	40.7	940.3	3.1	R 140.0	R 1,759.7	R 8.6	R 2,279.1	1,304.0	R 3,583.1
2016	—	R 432.9	R 337.1	56.6	31.0	833.3	3.0	R 99.2	R 1,360.2	R 5.8	R 1,798.8	1,225.0	R 3,023.8
2017	—	R 460.5	R 389.6	66.3	34.3	933.3	1.6	111.8	R 1,536.9	R 6.2	R 2,003.6	1,212.7	R 3,216.3
2018	—	R 580.4	R 565.6	96.1	40.5	1,086.9	0.3	127.2	R 1,916.6	6.5	R 2,503.5	1,372.8	R 3,876.2
2019	—	R 552.6	R 490.8	74.2	R 34.7	1,000.2	0.6	121.7	R 1,722.2	R 8.6	R 2,283.3	1,358.8	R 3,642.2
2020	—	R 487.1	R 377.3	64.5	18.2	704.6	0.2	R 125.4	R 1,290.2	R 6.8	R 1,784.2	1,362.9	R 3,147.1
2021	—	R 534.4	R 575.1	80.7	23.1	1,039.9	1.1	R 140.4	R 1,860.2	R 8.3	R 2,403.0	1,364.3	R 3,767.3
2022	—	R 596.2	R 918.8	88.1	R 56.7	1,428.9	1.8	R 173.3	R 2,667.6	R 15.4	R 3,279.3	1,462.2	R 4,741.5
2023	—	641.9	802.1	73.1	46.7	1,265.0	1.3	134.4	2,322.6	12.4	2,976.9	1,578.5	4,555.4

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. · Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2023, Rhode Island

Year	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
	Prices in dollars per million Btu									
1970	0.98	1.79	1.49	2.51	1.70	1.52	0.56	1.58	8.44	2.18
1975	2.62	3.04	2.85	5.49	3.16	2.89	1.11	2.91	15.43	4.30
1980	4.47	5.58	7.29	8.57	8.15	7.33	2.85	6.31	22.64	8.68
1985	4.39	7.62	8.15	11.44	8.61	8.28	3.22	7.79	26.77	10.45
1990	4.21	7.03	8.38	13.81	6.69	8.60	2.83	7.59	28.84	11.26
1995	4.01	7.79	6.75	15.14	4.75	7.07	2.30	7.15	33.62	11.67
2000	4.12	9.39	9.72	19.40	10.44	10.14	3.50	9.55	33.06	13.80
2005	5.42	14.49	15.45	27.25	15.29	15.81	5.48	15.12	38.21	19.79
2006	5.69	17.28	18.28	31.09	18.17	18.78	6.31	17.93	44.30	23.90
2007	5.69	16.23	20.22	33.59	22.69	20.82	6.97	18.40	41.17	23.56
2008	—	16.49	24.96	38.70	27.36	25.65	8.59	20.84	51.15	27.63
2009	—	16.66	18.48	35.40	22.32	19.28	6.45	17.72	45.73	23.59
2010	—	16.11	22.78	36.34	25.30	23.35	7.61	19.46	46.67	25.67
2011	—	14.97	25.91	40.79	29.58	26.66	9.15	20.38	42.01	25.48
2012	—	13.87	29.34	38.64	31.66	29.76	10.19	21.49	42.22	26.52
2013	—	14.11	28.38	39.01	31.60	28.88	9.98	R 20.86	44.55	26.22
2014	—	14.72	27.66	42.51	31.99	28.67	9.73	20.79	50.32	27.14
2015	—	13.85	18.98	35.87	17.13	R 19.96	6.71	16.45	56.53	R 24.90
2016	—	13.39	16.15	36.96	13.66	18.18	5.73	R 15.06	54.56	25.15
2017	—	13.60	18.10	38.89	17.08	R 20.30	6.41	R 15.87	53.69	R 25.26
2018	—	15.20	20.04	40.07	24.67	R 22.33	7.09	18.07	60.23	R 27.29
2019	—	14.92	19.18	35.73	23.04	R 21.19	6.82	17.08	63.70	R 27.60
2020	—	14.63	15.75	32.65	14.96	R 17.90	5.64	R 15.61	64.50	R 27.89
2021	—	15.72	18.36	36.92	23.63	R 20.29	6.77	R 17.49	65.36	R 28.44
2022	—	17.61	27.88	41.47	39.51	R 29.29	R 10.47	R 22.51	68.03	R 33.05
2023	—	19.97	25.68	38.36	34.72	26.95	9.58	22.84	79.18	35.69
	Expenditures in million dollars									
1970	0.1	21.9	50.7	1.2	3.2	55.2	0.3	77.4	40.0	117.4
1975	0.1	40.2	89.6	2.4	1.6	93.6	0.6	134.4	88.7	223.1
1980	0.1	79.5	140.0	3.0	2.5	145.5	8.1	233.1	142.1	375.2
1985	0.1	118.0	181.3	9.6	6.4	197.3	6.4	321.8	180.0	501.8
1990	0.1	127.9	148.1	11.5	1.4	161.1	5.2	294.3	233.8	528.1
1995	(s)	139.0	136.1	12.9	0.7	149.8	4.6	293.4	283.5	576.9
2000	(s)	183.4	184.6	16.2	3.8	204.6	5.1	393.1	300.5	693.6
2005	(s)	282.3	335.5	19.1	5.1	359.7	2.0	644.0	413.5	1,057.5
2006	(s)	296.6	304.4	21.3	4.1	329.8	2.1	628.4	454.7	1,083.2
2007	(s)	294.4	346.5	27.0	2.1	375.5	2.5	672.4	439.9	1,112.4
2008	—	298.8	410.8	33.4	1.6	445.9	3.5	748.2	531.0	1,279.2
2009	—	305.6	325.1	30.0	3.0	358.1	5.5	669.2	458.2	1,127.4
2010	—	279.2	385.4	26.4	2.5	414.4	6.9	700.5	496.5	1,197.0
2011	—	258.5	403.4	32.8	2.2	438.4	8.1	705.0	448.5	1,153.5
2012	—	227.0	449.8	27.8	1.1	478.7	7.5	713.2	449.6	1,162.8
2013	—	265.1	R 461.4	31.3	1.2	R 493.8	9.6	R 768.5	481.0	R 1,249.6
2014	—	298.6	R 437.5	48.3	1.5	R 487.3	9.5	R 795.4	527.1	R 1,322.6
2015	—	285.4	R 327.0	38.1	0.5	R 365.5	7.4	R 658.4	604.8	R 1,263.2
2016	—	237.4	R 175.3	43.7	0.4	R 219.4	R 4.9	R 461.6	573.7	R 1,035.2
2017	—	258.3	R 185.7	47.3	0.3	R 233.3	5.2	R 496.8	554.8	R 1,051.6
2018	—	321.2	R 287.1	73.9	0.5	R 361.4	5.4	R 688.0	642.0	R 1,330.0
2019	—	305.5	R 225.1	57.9	0.4	R 283.5	R 7.3	R 596.3	648.3	R 1,244.6
2020	—	275.3	R 168.1	50.7	0.2	R 218.9	R 5.4	R 499.6	692.8	R 1,192.4
2021	—	300.6	R 261.5	61.1	0.5	R 323.1	R 6.7	R 630.4	698.4	R 1,328.8
2022	—	331.1	R 394.5	67.5	0.7	R 462.7	R 13.0	R 806.9	735.4	R 1,542.3
2023	—	353.7	365.8	59.7	1.1	426.7	10.1	790.6	809.2	1,599.7

[a] Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2023, Rhode Island

Year	Primary energy										Electricity [j]	Total energy [g,h,i]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f,g]	Total [g,h,i]		
	Prices in dollars per million Btu											
1970	0.90	1.44	1.10	1.18	0.78	2.90	0.44	0.86	0.56	1.01	7.02	2.07
1975	2.65	2.71	2.44	2.58	2.59	4.50	1.81	2.28	1.11	2.39	13.84	5.21
1980	1.67	5.00	6.46	5.06	—	9.72	3.96	6.03	2.85	5.41	20.45	10.62
1985	2.39	6.45	6.92	11.96	8.61	9.13	4.96	6.30	3.22	6.35	24.56	12.37
1990	2.58	6.04	6.95	10.91	6.69	10.03	3.35	5.70	2.83	5.81	26.21	12.79
1995	2.26	6.23	5.49	10.18	4.75	10.52	3.00	4.79	2.30	5.61	29.78	13.18
2000	2.00	8.17	8.42	12.67	10.44	12.85	4.65	7.29	3.50	7.81	28.95	15.16
2005	3.12	13.05	14.41	17.04	15.29	18.46	7.41	11.95	5.48	12.56	34.33	21.24
2006	3.48	15.67	16.54	18.93	18.17	21.30	9.05	14.55	6.31	15.21	39.59	25.89
2007	3.54	14.52	18.11	21.00	22.69	22.69	9.21	16.08	6.97	15.00	37.13	24.29
2008	—	15.16	24.74	24.51	27.36	26.44	12.80	22.19	8.59	17.24	45.12	29.57
2009	—	14.79	16.39	19.76	22.32	19.72	9.91	15.63	6.45	15.03	40.03	25.54
2010	—	14.13	19.74	22.82	25.30	23.47	14.17	19.53	7.61	15.74	38.39	25.86
2011	—	13.02	26.03	26.30	29.58	30.07	17.66	25.49	9.15	16.12	36.25	25.27
2012	—	11.95	26.73	21.98	31.66	31.05	19.48	25.98	10.19	15.24	34.78	24.52
2013	—	12.00	25.54	21.30	31.60	30.30	20.08	R 24.94	9.98	R 15.04	37.86	25.10
2014	—	12.53	25.17	22.93	31.99	29.12	18.81	24.80	9.73	R 16.08	42.67	26.53
2015	—	11.66	15.65	14.83	17.13	20.59	10.40	16.43	6.71	R 12.93	46.24	R 27.02
2016	—	10.83	13.13	13.72	13.66	18.53	7.65	14.42	5.73	R 11.69	43.60	R 26.17
2017	—	10.97	14.95	17.89	17.08	20.81	10.41	R 17.02	6.41	12.30	44.54	R 26.67
2018	—	12.60	19.47	19.39	24.67	23.22	—	20.44	7.09	14.39	48.59	R 28.86
2019	—	12.50	18.13	15.67	23.04	21.76	12.82	18.58	6.82	13.80	48.02	R 28.46
2020	—	11.96	12.55	14.89	14.96	18.32	10.08	15.17	5.64	R 12.56	46.73	R 28.17
2021	—	12.83	19.37	22.36	23.63	24.91	15.08	R 21.12	6.77	R 15.14	45.45	R 28.09
2022	—	14.81	31.61	23.73	39.51	33.54	24.83	R 30.89	R 10.47	R 19.30	47.57	R 31.74
2023	—	16.90	24.73	19.46	34.72	29.53	22.59	25.23	9.58	19.25	51.82	33.81
	Expenditures in million dollars											
1970	0.1	7.5	9.4	0.3	(s)	0.6	2.7	12.9	(s)	20.5	30.8	51.2
1975	0.2	11.6	19.3	0.6	(s)	1.0	6.9	27.7	(s)	39.5	74.4	113.9
1980	0.1	34.5	23.2	0.9	—	2.5	4.5	31.1	0.2	65.8	132.0	197.9
1985	0.2	50.6	19.9	5.0	0.2	1.5	17.2	43.8	0.2	94.8	181.0	275.7
1990	0.3	50.1	32.4	4.5	0.1	2.0	12.6	51.6	0.6	102.5	240.4	342.9
1995	0.1	77.3	23.7	4.3	0.8	0.5	9.4	38.7	0.6	116.8	283.5	400.3
2000	0.1	110.9	30.8	5.3	1.1	0.6	12.2	50.1	0.8	162.0	320.3	482.3
2005	0.2	147.1	57.5	6.8	0.8	1.1	20.3	86.7	0.3	234.3	425.0	659.3
2006	0.2	158.6	58.5	5.5	1.0	1.1	14.6	80.7	0.3	239.8	486.2	726.0
2007	0.1	167.7	72.0	7.2	0.1	1.2	13.6	94.0	0.4	262.2	470.1	732.3
2008	—	168.4	82.5	8.6	0.2	1.4	13.1	105.8	0.5	274.7	569.7	844.4
2009	—	162.4	80.7	6.9	(s)	1.0	9.4	98.0	0.8	261.2	504.1	765.3
2010	—	151.2	78.9	7.3	0.1	1.2	5.7	93.2	0.9	245.3	483.8	729.1
2011	—	144.5	79.2	9.9	0.1	1.5	4.9	95.6	1.0	241.2	452.7	693.9
2012	—	124.2	72.4	7.0	(s)	1.5	3.0	84.0	1.0	209.2	432.0	641.1
2013	—	143.9	R 80.4	8.3	(s)	1.5	3.2	R 93.4	1.2	R 238.5	473.7	R 712.2
2014	—	169.9	R 123.2	10.1	0.1	1.4	3.9	R 138.6	R 1.1	309.6	532.6	842.2
2015	—	144.1	R 48.7	6.2	(s)	20.8	1.9	R 77.8	R 1.0	R 222.9	584.5	R 807.4
2016	—	119.9	R 28.7	5.8	(s)	18.8	1.2	R 54.5	R 0.7	R 175.2	543.2	R 718.4
2017	—	128.1	R 30.4	7.2	(s)	21.5	0.1	R 59.2	R 0.8	R 188.2	547.5	R 735.7
2018	—	165.3	R 42.5	14.9	0.1	24.4	—	R 81.8	R 0.7	R 247.8	613.1	R 860.9
2019	—	159.8	R 31.1	14.0	0.1	23.0	(s)	R 68.3	R 0.9	R 229.0	597.1	R 826.1
2020	—	133.0	R 14.7	12.5	0.1	19.5	0.1	R 46.9	R 1.1	R 181.0	566.2	R 747.2
2021	—	148.4	R 55.6	17.2	0.1	26.8	(s)	R 99.7	R 1.3	R 249.4	558.9	R 808.3
2022	—	170.1	R 88.9	16.2	0.1	36.6	0.1	R 141.9	R 2.0	R 314.0	607.9	R 921.9
2023	—	181.1	70.0	11.2	0.2	32.2	(s)	113.7	1.8	296.5	645.4	942.0

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[g] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[j] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: Expenditure totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2023, Rhode Island

Year	Primary energy												Electricity [i]	Total energy [f,g,h]
	Coal			Natural gas [a]	Petroleum						Biomass	Total [f,g,h]		
	Coking coal	Steam coal	Total		Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e,f]			
	Prices in dollars per million Btu													
1970	—	0.90	0.90	0.85	0.71	1.25	2.90	0.42	1.01	0.62	3.00	0.78	4.83	1.16
1975	—	2.65	2.65	2.10	2.34	2.80	4.50	2.05	2.19	2.17	3.00	2.19	11.36	3.20
1980	—	1.67	1.67	4.45	5.65	5.51	9.72	4.24	4.78	4.80	—	4.70	18.39	7.27
1985	—	2.39	2.39	5.70	7.11	13.43	9.13	4.96	5.42	5.58	—	5.59	21.93	7.50
1990	—	2.58	2.58	5.18	7.53	12.15	10.03	3.35	4.11	4.63	—	4.75	24.46	8.26
1995	—	—	—	3.98	5.11	8.00	10.52	3.00	4.96	4.83	—	4.19	26.01	6.14
2000	—	—	—	5.14	7.90	12.62	12.85	4.65	9.67	8.09	1.47	6.22	25.69	11.26
2005	—	—	—	11.00	14.58	20.10	18.46	7.41	10.86	11.85	1.63	11.43	29.32	15.89
2006	—	—	—	13.10	17.36	21.95	21.30	9.05	14.20	15.04	1.92	14.03	36.67	19.46
2007	—	—	—	12.25	18.53	25.85	22.69	9.21	38.10	20.32	1.92	15.08	35.29	20.57
2008	—	—	—	12.95	25.13	33.03	26.44	12.80	11.44	13.83	1.92	13.47	41.70	18.25
2009	—	—	—	12.29	15.71	25.89	19.72	9.91	17.18	16.37	1.92	14.46	35.80	17.97
2010	—	—	—	11.86	19.91	24.45	23.47	14.17	R 16.58	R 17.46	1.92	R 14.75	34.66	R 17.93
2011	—	—	—	10.72	24.50	30.26	30.07	17.66	R 19.62	R 21.25	1.87	R 15.75	33.04	R 18.74
2012	—	—	—	9.49	25.68	24.42	31.05	19.48	R 20.12	R 21.66	1.75	R 15.22	31.29	R 17.93
2013	—	—	—	8.77	24.75	23.49	30.30	20.08	R 19.46	R 20.75	1.63	R 14.84	34.65	R 17.88
2014	—	—	—	9.98	24.55	25.70	29.12	18.81	R 19.53	R 20.88	2.17	R 15.65	37.70	R 18.90
2015	—	—	—	9.01	15.75	14.73	20.59	10.40	R 16.66	R 16.68	2.05	R 12.75	40.32	R 16.44
2016	—	—	—	8.44	12.91	13.23	18.53	7.65	R 13.39	R 13.56	1.59	R 10.82	39.52	R 14.69
2017	—	—	—	8.23	14.05	17.58	20.81	10.41	14.38	15.00	1.48	11.53	42.69	15.38
2018	—	—	—	10.16	18.35	19.08	23.22	13.45	17.17	17.87	2.22	13.71	45.10	17.65
2019	—	—	—	9.42	16.83	15.35	21.76	12.82	18.15	18.22	2.45	13.24	45.69	17.31
2020	—	—	—	8.90	12.06	14.56	18.32	10.08	16.81	R 16.24	2.36	12.39	46.18	16.21
2021	—	—	—	9.53	16.51	22.01	24.91	15.08	R 18.33	R 18.68	2.29	R 13.83	47.06	R 17.64
2022	—	—	—	10.65	28.50	23.36	33.54	24.83	R 23.17	R 24.61	R 2.53	R 17.20	52.64	R 21.28
2023	—	—	—	12.42	24.13	19.08	29.53	22.59	21.14	22.27	2.59	16.71	55.64	21.46
	Expenditures in million dollars													
1970	—	(s)	(s)	5.0	2.8	0.7	(s)	8.3	7.8	19.7	6.5	31.2	19.9	51.1
1975	—	0.1	0.1	12.4	6.0	2.9	0.1	24.7	21.6	55.3	4.4	72.3	46.2	118.4
1980	—	0.2	0.2	23.1	13.6	2.9	0.1	17.4	39.6	73.7	—	96.9	87.8	184.7
1985	—	0.2	0.2	27.2	11.4	6.9	1.3	30.3	109.4	159.3	—	186.7	97.3	284.0
1990	—	(s)	(s)	23.3	12.2	6.5	1.8	9.5	47.7	77.8	—	101.1	113.0	214.2
1995	—	—	—	143.3	8.3	3.3	3.0	7.0	35.0	56.6	—	200.0	121.9	321.8
2000	—	—	—	43.3	7.6	5.1	2.2	7.5	18.9	41.3	0.1	84.7	122.1	206.8
2005	—	—	—	66.2	17.3	9.7	10.1	13.5	29.9	80.4	(s)	146.7	125.0	271.7
2006	—	—	—	85.2	21.7	11.8	12.7	12.4	36.5	95.1	0.1	180.4	149.0	329.4
2007	—	—	—	84.3	17.5	10.2	18.0	10.2	21.1	77.1	0.1	161.5	141.0	302.5
2008	—	—	—	89.8	14.0	9.5	21.0	6.2	101.9	152.6	0.1	242.5	153.0	395.5
2009	—	—	—	97.4	14.7	7.3	14.9	14.3	99.3	150.4	0.1	247.9	121.0	368.8
2010	—	—	—	97.4	17.1	7.7	13.4	7.8	R 110.9	R 156.8	0.1	R 254.4	113.6	R 368.0
2011	—	—	—	81.9	17.5	10.3	16.8	10.5	R 98.8	R 153.8	0.2	R 236.0	103.3	R 339.2
2012	—	—	—	76.7	15.0	10.4	18.2	2.9	R 113.0	R 159.5	0.2	R 236.3	98.6	R 334.9
2013	—	—	—	73.8	12.3	12.4	18.5	0.7	R 140.3	R 184.2	0.2	R 258.1	109.1	R 367.3
2014	—	—	—	82.2	16.3	14.0	17.4	1.2	R 142.3	R 191.2	0.2	R 273.6	114.1	R 387.7
2015	—	—	—	79.9	8.6	7.8	12.4	1.1	R 115.5	R 145.4	0.2	R 225.5	109.9	R 335.3
2016	—	—	—	73.7	8.7	6.9	11.2	1.8	R 78.8	R 107.4	0.2	R 181.3	103.0	R 284.3
2017	—	—	—	72.5	13.2	11.7	12.8	0.9	91.7	130.4	0.1	203.0	105.7	308.8
2018	—	—	—	92.2	20.3	6.4	14.5	0.1	105.3	146.6	0.4	239.2	113.1	352.3
2019	—	—	—	85.5	17.7	1.6	13.7	0.2	100.0	133.1	0.4	219.0	108.4	327.5
2020	—	—	—	76.6	13.6	1.3	11.5	0.1	R 107.0	R 133.5	0.4	210.5	100.0	310.5
2021	—	—	—	83.0	14.1	2.3	15.7	0.6	R 118.1	R 150.8	0.4	R 234.2	103.4	R 337.5
2022	—	—	—	92.0	24.7	4.3	21.8	1.0	R 144.4	R 196.2	0.4	R 288.6	114.8	R 403.4
2023	—	—	—	104.1	20.4	2.2	19.3	0.7	110.8	153.4	0.4	258.0	119.4	377.4

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[i] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.
Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET6. Transportation sector energy price and expenditure estimates, selected years, 1970-2023, Rhode Island

Year	Primary energy											Electricity [g]	Total energy [f]
			Petroleum										
	Coal	Natural gas[a]	Aviation gasoline	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Lubricants	Motor gasoline [e]	Residual fuel oil	Total	Total [f]		
	Prices in dollars per million Btu												
1970	0.90	—	2.17	1.36	1.18	0.75	5.08	2.90	0.41	2.17	2.17	—	2.17
1975	2.65	—	3.45	2.90	2.58	2.09	7.48	4.50	1.71	4.19	4.19	—	4.19
1980	—	—	9.02	7.41	5.06	6.51	14.36	9.72	3.34	9.40	9.40	—	9.40
1985	—	—	9.99	8.89	13.14	6.10	18.18	9.13	—	9.03	9.03	—	9.03
1990	—	3.77	9.32	9.93	12.91	6.03	20.61	10.03	3.42	9.77	9.77	—	9.77
1995	—	5.69	8.36	8.84	12.88	4.19	21.75	10.52	2.55	10.05	10.05	—	10.05
2000	—	5.06	10.87	12.18	15.72	6.91	23.20	12.85	3.20	12.16	12.16	—	12.16
2005	—	8.66	18.56	18.34	19.12	12.74	35.22	18.46	—	18.11	18.09	—	18.09
2006	—	9.81	22.31	20.66	21.07	14.92	43.88	21.30	8.01	20.99	20.96	—	20.96
2007	—	10.67	23.70	21.62	22.77	16.47	47.16	22.69	9.06	22.46	22.43	—	22.43
2008	—	12.32	27.23	29.73	26.63	23.06	55.12	26.44	9.57	26.98	26.95	—	26.95
2009	—	10.47	20.32	19.05	20.92	12.87	56.07	19.72	6.13	19.14	19.12	—	19.12
2010	—	11.45	25.19	22.33	24.36	16.41	58.80	23.47	10.78	22.98	22.96	40.24	22.99
2011	—	8.41	31.64	28.82	28.22	22.95	69.54	30.07	14.73	29.55	29.51	41.35	29.53
2012	—	15.84	33.04	29.93	24.02	23.55	72.11	31.05	16.39	30.61	30.59	24.27	30.58
2013	—	R 16.28	32.71	29.59	23.35	22.59	69.42	30.30	15.74	29.93	R 29.91	38.18	R 29.92
2014	—	R 16.47	33.16	29.07	24.94	21.02	69.44	29.12	15.21	28.92	28.90	43.63	28.92
2015	—	R 16.08	24.86	20.98	17.11	12.79	67.28	20.59	8.19	20.50	R 20.49	54.32	R 20.54
2016	—	R 17.26	21.62	17.28	16.08	10.41	65.78	18.53	5.94	18.17	R 18.16	54.85	R 18.23
2017	—	R 14.90	24.13	19.54	19.43	12.30	67.25	20.81	8.40	20.41	R 20.40	50.07	R 20.45
2018	—	R 16.84	27.04	23.50	20.60	16.27	72.37	23.22	10.51	23.20	R 23.19	49.84	23.23
2019	—	R 17.91	25.57	22.73	17.91	15.21	74.92	21.76	9.89	21.90	R 21.90	54.20	R 21.95
2020	—	R 22.43	22.34	19.78	16.64	10.58	75.34	18.32	—	18.60	R 18.61	65.15	R 18.67
2021	—	R 23.30	28.86	23.41	22.29	15.33	81.25	24.91	10.90	24.60	R 24.60	57.88	R 24.64
2022	—	R 28.69	36.02	38.23	22.96	26.99	97.37	33.54	18.86	34.53	R 34.52	51.35	R 34.55
2023	—	34.66	32.62	32.74	19.87	21.67	105.48	29.53	15.52	30.12	30.12	50.67	30.16
	Expenditures in million dollars												
1970	(s)	—	1.6	4.8	0.1	0.6	2.4	121.4	6.5	137.4	137.4	—	137.4
1975	(s)	—	5.0	13.3	0.3	3.2	2.6	210.8	3.5	238.7	238.7	—	238.7
1980	—	—	12.2	29.2	0.2	12.8	6.1	427.1	1.2	488.7	488.7	—	488.7
1985	—	—	1.5	17.3	1.1	17.1	7.0	412.8	—	456.9	456.9	—	456.9
1990	—	(s)	2.0	66.8	0.9	26.4	8.9	457.8	0.7	563.6	563.7	—	563.7
1995	—	0.1	0.9	68.3	0.4	11.8	9.0	485.1	(s)	575.7	575.7	—	575.7
2000	—	0.2	0.7	96.6	0.1	50.3	10.3	629.8	0.1	787.9	788.1	—	788.1
2005	—	1.2	1.1	162.9	0.4	59.6	13.1	872.2	—	1,109.3	1,110.5	—	1,110.5
2006	—	1.5	2.5	192.9	0.4	50.2	16.0	1,074.2	0.2	1,336.4	1,337.9	—	1,337.9
2007	—	1.4	2.6	241.4	0.3	31.3	17.7	1,116.0	0.1	1,409.4	1,410.8	—	1,410.8
2008	—	1.2	1.6	253.2	0.7	39.2	19.2	1,290.6	0.2	1,604.6	1,605.8	—	1,605.8
2009	—	0.9	0.7	165.9	0.5	50.6	17.6	932.3	6.5	1,174.1	1,175.0	—	1,175.0
2010	—	1.0	0.6	210.4	0.1	57.8	20.1	1,100.8	5.5	1,395.4	R 1,396.4	3.7	1,400.2
2011	—	0.7	0.7	R 274.7	0.1	87.8	22.1	1,327.2	3.8	R 1,716.4	R 1,717.2	3.8	R 1,721.0
2012	—	1.4	0.8	R 262.0	0.1	81.0	20.1	1,326.9	0.1	1,691.0	R 1,692.3	2.0	1,694.3
2013	—	R 1.2	0.6	R 263.3	0.1	74.8	20.5	1,302.9	0.6	R 1,662.8	R 1,664.0	3.4	R 1,667.5
2014	—	R 1.5	1.4	R 308.4	0.2	62.5	22.5	1,269.0	0.3	R 1,664.2	R 1,665.7	4.2	R 1,669.8
2015	—	R 1.5	1.1	R 199.0	0.2	40.7	22.8	907.1	(s)	R 1,170.9	R 1,172.4	4.8	R 1,177.2
2016	—	R 1.9	1.0	124.5	0.2	31.0	19.0	803.3	0.1	R 978.9	R 980.8	5.1	R 985.9
2017	—	R 1.6	1.1	160.3	(s)	34.3	18.6	899.0	0.6	R 1,113.9	R 1,115.5	4.7	R 1,120.2
2018	—	R 1.7	1.2	215.8	0.9	40.5	20.2	1,048.0	0.1	1,326.7	R 1,328.4	4.6	R 1,333.0
2019	—	R 1.8	1.0	216.8	0.7	R 34.7	20.1	963.6	0.4	R 1,237.3	R 1,239.0	5.0	R 1,244.0
2020	—	R 2.2	0.7	180.9	(s)	18.2	17.4	673.6	—	890.8	R 893.1	3.9	R 897.0
2021	—	R 2.4	1.2	243.9	(s)	23.1	20.5	997.5	0.4	R 1,286.6	R 1,289.0	3.6	R 1,292.6
2022	—	R 3.0	1.5	R 410.7	0.1	R 56.7	R 26.6	1,370.5	0.8	R 1,866.8	R 1,869.8	4.0	R 1,873.9
2023	—	3.0	1.3	345.8	(s)	46.7	21.0	1,213.5	0.5	1,628.8	1,631.8	4.5	1,636.3

[a] Transportation use of natural gas as vehicle fuel only.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET7. Electric power sector price and expenditure estimates, selected years, 1970-2023, Rhode Island

Year	Coal	Natural gas [a]	Petroleum: Distillate fuel oil	Petroleum: Petroleum coke	Petroleum: Residual fuel oil	Petroleum: Total	Nuclear fuel	Biomass: Wood and waste [b]	Electricity imports [c]	Total energy [d]
	Prices in dollars per million Btu									
1970	—	0.39	0.48	—	0.44	0.44	—	—	—	0.43
1975	—	1.15	2.00	—	1.84	1.84	—	—	—	1.84
1980	—	3.32	6.03	—	3.97	4.00	—	—	—	3.91
1985	—	3.37	5.83	—	4.03	4.08	—	—	9.34	4.74
1990	—	2.17	5.53	—	3.59	3.68	—	0.46	8.37	2.36
1995	—	1.85	4.12	—	2.57	2.97	—	0.70	6.21	2.28
2000	—	4.43	6.81	—	—	6.81	—	0.67	16.78	5.76
2005	—	9.48	11.75	—	—	11.75	—	—	16.53	9.70
2006	—	7.45	14.06	—	—	14.06	—	2.32	17.32	7.57
2007	—	7.86	15.77	—	—	15.77	—	2.42	18.25	8.05
2008	—	10.29	20.27	—	—	20.27	—	2.66	18.28	10.37
2009	—	4.87	11.84	—	—	11.84	—	2.20	12.10	5.13
2010	—	5.38	16.50	—	—	16.50	—	2.40	13.31	5.54
2011	—	5.01	22.15	—	—	22.15	—	2.44	11.53	5.18
2012	—	3.86	23.43	—	—	23.43	—	2.21	—	3.88
2013	—	5.66	22.00	—	—	22.00	—	2.26	11.49	5.80
2014	—	6.56	20.01	—	—	20.01	—	2.73	13.31	6.65
2015	—	3.62	16.73	—	—	16.73	—	2.62	10.54	3.85
2016	—	3.39	9.76	—	—	9.76	—	2.54	8.74	3.43
2017	—	3.53	14.05	—	—	14.05	—	2.40	9.18	3.65
2018	—	4.09	15.87	—	—	15.87	—	2.22	10.74	4.21
2019	—	3.22	16.64	—	—	16.64	—	2.33	—	3.20
2020	—	2.32	9.58	—	—	9.58	—	1.80	—	2.30
2021	—	4.36	16.48	—	—	16.48	—	2.39	—	4.32
2022	—	R 8.39	21.71	—	—	21.71	—	2.69	—	R 8.30
2023	—	3.69	21.04	—	—	21.04	—	2.93	—	3.72
	Expenditures in million dollars									
1970	—	0.9	0.2	—	8.2	8.4	—	—	—	9.3
1975	—	(s)	0.3	—	17.8	18.1	—	—	—	18.1
1980	—	5.7	1.0	—	40.8	41.8	—	—	—	47.5
1985	—	8.8	0.7	—	17.9	18.6	—	—	13.4	40.9
1990	—	20.3	0.6	—	7.7	8.3	—	0.5	1.0	30.0
1995	—	67.6	0.6	—	1.0	1.6	—	0.7	27.0	97.0
2000	—	221.3	1.6	—	—	1.6	—	0.9	111.5	335.3
2005	—	425.1	1.9	—	—	1.9	—	—	23.0	449.9
2006	—	326.2	2.0	—	—	2.0	—	4.2	24.1	356.6
2007	—	414.3	3.2	—	—	3.2	—	4.6	34.4	456.6
2008	—	556.3	4.5	—	—	4.5	—	5.3	40.8	606.9
2009	—	275.8	1.6	—	—	1.6	—	3.9	32.5	313.7
2010	—	311.3	2.2	—	—	2.2	—	4.3	22.7	340.4
2011	—	327.4	2.9	—	—	2.9	—	3.8	23.9	358.1
2012	—	241.0	3.9	—	—	3.9	—	2.6	—	247.5
2013	—	270.8	7.7	—	—	7.7	—	1.1	6.0	285.5
2014	—	302.4	12.0	—	—	12.0	—	5.5	7.9	327.9
2015	—	186.0	13.8	—	—	13.8	—	5.5	5.8	211.1
2016	—	163.2	2.4	—	—	2.4	—	5.1	4.2	175.0
2017	—	184.5	6.4	—	—	6.4	—	4.7	6.2	201.7
2018	—	241.1	10.4	—	—	10.4	—	4.5	5.1	261.1
2019	—	170.6	1.3	—	—	1.3	—	4.8	—	176.7
2020	—	139.6	0.3	—	—	0.3	—	5.1	—	145.0
2021	—	278.0	1.6	—	—	1.6	—	4.9	—	284.5
2022	—	R 434.2	12.0	—	—	12.0	—	5.8	—	R 452.1
2023	—	267.2	5.2	—	—	5.2	—	7.1	—	279.6

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[c] Electricity imported from Canada and Mexico.
[d] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET1. Primary energy, electricity, and total energy price and expenditure estimates, selected years, 1970-2023, South Carolina

Year	Primary energy														Electric power sector [i,k,l]	Electricity [m]	Total energy [h,i,j]
	Coal			Natural gas [a]	Petroleum							Nuclear fuel	Biomass				
	Coking coal	Steam coal	Total		Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total		Wood and waste [g,h]	Total [h,i,j,k]			
	Prices in dollars per million Btu																
1970	—	0.47	0.47	0.57	1.03	1.90	0.73	2.75	0.42	1.42	1.89	0.19	1.30	1.21	0.42	3.98	1.82
1975	—	1.24	1.24	1.16	2.68	3.41	2.03	4.35	1.40	2.86	3.43	0.19	1.47	1.85	0.56	7.72	3.74
1980	—	1.59	1.59	3.07	6.84	5.53	6.46	10.18	3.43	6.60	8.09	0.44	2.27	4.02	1.14	11.11	7.17
1985	—	1.88	1.88	5.06	7.09	10.19	6.11	8.84	4.36	7.24	8.02	0.62	2.48	3.79	1.11	15.99	8.77
1990	—	1.72	1.72	4.01	7.62	10.61	6.07	8.80	3.11	5.88	8.01	0.53	1.10	3.39	0.95	16.40	8.58
1995	—	1.55	1.55	4.06	6.70	10.09	4.21	8.39	2.68	5.69	7.56	0.51	1.28	3.09	0.86	16.68	8.44
2000	—	1.42	1.42	5.98	9.57	13.66	6.92	11.14	4.34	5.70	10.08	0.42	1.61	4.03	0.90	16.49	10.31
2005	—	2.23	2.23	11.07	16.04	19.42	13.24	17.48	7.04	6.45	15.30	0.40	2.64	6.60	1.58	19.70	14.93
2006	—	2.40	2.40	10.24	17.97	21.43	14.92	19.52	8.52	7.66	17.35	0.39	2.78	7.31	1.59	20.47	16.12
2007	—	2.38	2.38	10.05	19.17	23.93	15.75	21.35	9.46	8.39	19.05	0.38	2.69	7.56	1.58	21.03	17.20
2008	—	2.92	2.92	11.85	26.45	28.69	22.61	25.60	13.53	11.04	24.08	0.40	3.07	9.32	1.90	23.02	20.56
2009	—	3.64	3.64	6.95	16.49	23.88	12.74	17.86	9.71	7.99	16.29	0.47	2.78	6.94	1.90	24.67	16.76
2010	—	3.70	3.70	6.96	20.03	26.72	16.62	21.31	11.03	R 15.46	20.17	0.55	2.88	8.02	2.13	24.89	18.55
2011	—	3.85	3.85	6.18	25.89	30.07	23.06	27.05	14.72	R 20.96	25.83	0.58	3.00	9.49	2.10	25.78	R 21.41
2012	—	3.98	3.98	5.14	26.71	25.33	23.58	27.69	16.14	R 19.76	R 26.43	0.63	2.58	R 9.66	2.03	26.68	21.83
2013	—	3.76	3.76	6.22	26.46	25.68	22.52	27.04	15.50	R 24.00	R 26.32	0.68	2.63	R 9.93	1.93	27.09	21.96
2014	—	3.65	3.65	6.84	25.60	28.60	20.96	26.05	15.13	R 23.09	R 25.49	0.64	2.99	9.62	2.03	28.33	21.91
2015	—	3.57	3.57	5.07	17.94	20.59	12.24	18.54	8.01	R 17.20	R 17.94	0.66	2.71	R 7.37	1.79	28.08	18.05
2016	—	3.21	3.21	R 4.86	15.12	19.65	10.28	16.91	5.96	R 15.75	R 16.03	0.68	2.68	6.70	1.63	28.68	R 17.08
2017	—	3.31	3.31	5.35	17.34	23.69	12.18	18.82	8.20	17.19	17.95	0.70	2.63	7.54	1.68	29.21	18.26
2018	—	3.34	3.34	5.62	20.57	25.51	15.50	20.48	10.21	19.81	20.08	0.65	2.47	8.24	1.94	28.33	19.15
2019	—	3.22	3.22	4.83	19.79	21.53	14.45	19.08	9.64	R 19.68	19.15	0.62	2.43	7.66	1.57	29.36	R 18.85
2020	—	3.15	3.15	4.34	16.38	20.00	10.41	16.05	7.53	R 19.56	16.19	0.61	2.02	6.40	1.43	29.01	17.15
2021	—	2.93	2.93	5.94	21.18	26.53	14.39	22.36	10.64	22.46	21.62	1.01	R 2.55	R 8.82	1.99	29.19	20.21
2022	—	3.57	3.57	R 8.68	R 33.07	27.86	24.62	28.72	18.28	32.85	R 29.64	0.57	R 2.77	R 11.69	2.48	31.46	R 25.37
2023	—	3.62	3.62	5.98	27.96	25.19	20.04	25.88	15.10	22.19	25.77	0.55	2.95	9.98	1.77	30.76	23.07
	Expenditures in million dollars																
1970	—	66.2	66.2	91.4	56.7	21.0	12.4	415.8	14.2	46.5	566.6	(s)	15.6	739.9	-65.0	294.7	969.5
1975	—	174.4	174.4	143.3	130.7	40.9	29.5	809.3	67.5	79.4	1,157.4	40.6	18.0	1,533.8	-205.4	782.8	2,111.1
1980	—	391.2	391.2	441.2	424.9	65.1	107.1	1,899.0	155.3	191.3	2,842.7	83.4	22.3	3,780.9	-467.6	1,412.5	4,725.8
1985	—	493.2	493.2	495.3	506.4	120.2	105.3	1,752.1	80.0	210.3	2,774.3	210.7	29.2	4,002.7	-597.5	2,523.7	5,928.9
1990	—	498.9	498.9	525.8	660.2	115.2	97.4	1,999.1	47.2	186.2	3,105.2	240.6	46.3	4,421.3	-654.6	3,113.3	6,880.0
1995	—	486.8	486.8	621.3	565.3	143.4	24.5	2,051.8	44.7	204.1	3,033.8	264.0	86.2	4,492.0	-672.2	3,703.0	7,522.8
2000	—	613.1	613.1	965.4	1,051.7	251.0	73.0	3,074.2	63.4	245.2	4,758.5	222.8	81.1	6,640.9	-830.8	4,331.8	10,141.8
2005	—	960.3	960.3	1,946.5	2,010.8	260.3	120.8	5,382.3	223.1	394.7	8,392.2	223.0	157.3	11,679.2	-1,584.0	5,461.6	15,556.8
2006	—	1,037.2	1,037.2	1,839.3	2,274.1	257.3	152.7	6,253.3	192.2	473.8	9,603.3	206.9	178.9	12,865.7	-1,562.8	5,648.1	16,951.0
2007	—	1,057.4	1,057.4	1,803.1	2,425.8	254.6	168.0	6,733.1	191.9	444.8	10,218.1	213.2	167.6	13,459.4	-1,630.9	5,879.8	17,708.3
2008	—	1,301.2	1,301.2	2,051.3	3,011.4	332.5	224.5	8,149.8	209.5	530.3	12,458.0	217.4	196.3	16,224.2	-1,927.4	6,334.5	20,631.3
2009	—	1,355.7	1,355.7	1,351.0	R 1,776.9	239.6	77.7	5,944.3	170.0	465.0	R 8,673.5	255.2	151.8	R 11,787.1	-1,872.0	6,431.9	R 16,346.9
2010	—	1,500.1	1,500.1	1,547.6	2,368.0	304.6	290.1	6,806.4	198.7	R 641.3	R 10,608.9	300.6	198.1	R 14,155.4	-2,184.8	7,003.9	R 18,974.5
2011	—	1,410.6	1,410.6	1,432.6	R 3,042.9	300.1	352.7	8,385.0	295.8	R 703.0	R 13,079.5	321.6	235.6	R 16,479.9	-2,120.5	7,081.3	R 21,440.7
2012	—	1,189.5	1,189.5	1,268.9	R 2,821.0	213.6	323.7	8,716.2	255.4	R 641.3	R 12,971.4	337.7	212.2	R 15,979.8	-1,930.8	7,079.7	R 21,128.6
2013	—	968.4	968.4	1,458.2	R 3,131.4	225.1	285.7	8,682.9	167.7	R 806.0	R 13,298.7	384.1	212.4	R 16,321.8	-1,770.2	7,264.7	R 21,816.2
2014	—	1,115.3	1,115.3	R 1,598.3	R 2,986.0	300.8	310.7	8,322.5	109.1	R 807.0	R 12,836.0	351.3	R 265.2	R 16,166.2	-1,919.4	7,889.8	R 22,136.6
2015	—	860.0	860.0	1,427.8	R 2,191.7	190.0	187.4	6,262.7	86.7	R 713.8	R 9,632.3	366.0	R 224.6	R 12,510.9	-1,695.9	7,792.2	R 18,607.1
2016	—	711.7	711.7	R 1,368.8	R 1,971.3	181.1	170.2	5,806.3	63.5	R 631.2	R 8,823.5	399.5	R 221.9	R 11,525.5	-1,555.6	7,788.2	R 17,758.1
2017	—	638.6	638.6	1,525.1	R 2,277.0	224.5	218.9	6,509.0	125.0	560.7	R 9,915.1	395.9	223.6	R 12,698.3	-1,528.3	7,782.6	R 18,952.6
2018	—	685.1	685.1	R 1,890.3	R 2,823.8	248.9	R 298.6	6,965.0	164.5	624.5	R 11,125.4	359.0	R 208.7	R 14,268.6	-1,840.5	7,891.2	R 20,319.3
2019	—	517.6	517.6	1,669.1	R 2,778.2	188.6	R 292.3	6,505.8	11.6	R 638.3	R 10,414.8	363.4	R 202.8	R 13,167.7	-1,487.2	8,035.7	R 19,716.2
2020	—	432.7	432.7	R 1,482.5	R 2,228.7	180.2	173.4	4,856.7	9.0	R 508.1	R 7,956.1	350.5	R 159.0	R 10,380.8	-1,300.8	7,596.7	R 16,676.7
2021	—	477.1	477.1	2,063.9	R 2,889.7	258.8	R 267.5	7,415.8	119.2	R 591.5	R 11,542.5	564.1	R 202.7	R 14,850.2	-1,828.0	7,947.4	R 20,969.6
2022	—	538.7	538.7	R 3,112.9	R 4,439.7	276.7	R 436.5	9,298.3	209.9	R 776.2	R 15,437.3	325.2	R 226.5	R 19,640.6	R -2,306.8	8,884.8	R 26,218.6
2023	—	587.7	587.7	2,061.7	3,658.2	217.4	361.4	8,660.1	143.9	715.4	13,756.4	321.5	225.1	16,952.4	-1,672.7	8,523.2	23,802.9

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[l] Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
[m] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.
Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET2. Total end-use energy price and expenditure estimates, selected years, 1970-2023, South Carolina

Year	Primary energy											Electricity [k]	Total energy [h,i,j]
			Petroleum							Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g,h]	Total [h,i,j]		
	Prices in dollars per million Btu												
1970	0.54	0.65	1.06	1.90	0.73	2.75	0.40	1.42	1.97	1.30	1.47	3.98	1.82
1975	1.58	1.23	2.68	3.41	2.03	4.35	1.75	2.86	3.64	1.47	2.87	7.72	3.74
1980	1.73	3.09	6.90	5.53	6.46	10.18	3.42	6.60	8.30	2.27	6.23	11.11	7.17
1985	1.78	5.06	7.11	10.19	6.11	8.84	4.36	7.24	8.03	2.48	6.57	15.99	8.77
1990	1.74	4.14	7.63	10.61	6.07	8.80	3.11	5.88	8.01	1.10	6.16	16.40	8.58
1995	1.71	4.17	6.73	10.09	4.21	8.39	2.69	5.69	7.57	1.28	5.71	16.68	8.44
2000	1.64	6.00	9.67	13.66	6.92	11.14	4.35	5.70	10.11	1.61	8.06	16.49	10.31
2005	2.93	11.35	16.09	19.42	13.24	17.48	7.05	6.69	15.38	2.88	13.20	19.70	14.93
2006	3.19	11.26	18.00	21.43	14.92	19.52	8.52	7.67	17.36	2.80	14.57	20.47	16.12
2007	3.07	10.95	19.22	23.93	15.75	21.35	9.47	8.39	19.06	2.72	15.77	21.03	17.20
2008	3.74	12.51	26.52	28.69	22.61	25.60	13.53	11.13	24.12	3.12	19.63	23.02	20.56
2009	3.71	8.88	16.52	23.88	12.74	17.86	9.71	8.44	16.40	2.89	13.88	24.67	16.76
2010	3.65	8.43	20.07	26.72	16.62	21.31	11.03	R 15.55	20.19	2.94	16.15	24.89	18.55
2011	4.09	7.71	25.92	30.07	23.06	27.05	14.72	R 20.96	R 25.84	3.07	19.75	25.78	R 21.41
2012	4.35	6.55	26.75	25.33	23.58	27.69	16.14	R 19.76	26.43	2.90	20.00	26.68	21.83
2013	4.03	7.35	26.49	25.68	22.52	27.04	15.50	R 24.00	R 26.33	2.96	R 20.07	27.09	21.96
2014	4.11	8.04	25.67	28.60	20.96	26.05	15.13	R 23.09	R 25.50	3.51	R 19.47	28.33	21.91
2015	3.87	6.76	17.99	20.59	12.24	18.54	8.01	R 17.20	R 17.96	3.24	R 14.36	28.08	18.05
2016	3.59	6.38	15.15	19.65	10.28	16.91	5.96	R 15.75	R 16.04	3.13	R 12.98	28.68	R 17.08
2017	3.62	7.11	17.37	23.69	12.18	18.82	8.20	17.19	17.96	3.08	14.47	29.21	18.26
2018	3.75	7.25	20.65	25.51	15.50	20.48	10.21	19.81	20.10	2.85	15.88	28.33	19.15
2019	3.85	6.79	19.82	21.53	14.45	19.08	9.64	R 19.68	19.15	2.81	15.12	29.36	R 18.85
2020	3.89	6.36	16.41	20.00	10.41	16.05	7.53	R 19.56	16.20	2.30	12.78	29.01	17.15
2021	4.10	7.87	21.22	26.53	14.39	22.36	10.64	22.46	21.63	R 2.92	R 17.02	29.19	20.21
2022	5.51	10.55	R 33.15	27.86	24.62	28.72	18.28	32.85	R 29.65	R 3.20	R 23.08	31.46	R 25.37
2023	7.56	8.45	28.00	25.19	20.04	25.88	15.10	22.19	25.78	3.34	20.25	30.76	23.07
	Expenditures in million dollars												
1970	27.2	74.4	53.6	21.0	12.4	415.8	8.3	46.5	557.7	15.6	674.8	294.7	969.5
1975	53.5	132.6	129.1	40.9	29.5	809.3	35.9	79.4	1,124.1	18.0	1,328.3	782.8	2,111.1
1980	84.6	427.8	405.8	65.1	107.1	1,899.0	110.3	191.3	2,778.6	22.3	3,313.4	1,412.5	4,725.8
1985	114.8	493.0	500.3	120.2	105.3	1,752.1	79.9	210.3	2,768.2	29.2	3,405.2	2,523.7	5,928.9
1990	101.5	513.5	655.9	115.2	97.4	1,999.1	47.1	186.2	3,100.8	46.3	3,766.7	3,113.3	6,880.0
1995	95.3	610.4	560.6	143.4	24.5	2,051.8	43.6	204.1	3,028.0	86.2	3,819.8	3,703.0	7,522.8
2000	82.4	916.3	1,028.0	251.0	73.0	3,074.2	59.0	245.2	4,730.3	81.1	5,810.1	4,331.8	10,141.8
2005	113.8	1,468.0	1,986.1	260.3	120.8	5,382.3	220.1	392.2	8,361.8	151.6	10,095.2	5,461.6	15,556.8
2006	124.9	1,435.1	2,254.8	257.3	152.7	6,253.3	190.7	473.6	9,582.3	160.6	11,302.9	5,648.1	16,951.0
2007	100.9	1,389.3	2,396.5	254.6	168.0	6,733.1	189.4	444.8	10,186.3	152.0	11,828.5	5,879.8	17,708.3
2008	112.3	1,567.6	2,993.9	332.5	224.5	8,149.8	209.1	529.0	12,438.8	178.1	14,296.8	6,334.5	20,631.3
2009	86.4	1,041.9	R 1,763.0	239.6	77.7	5,944.3	167.9	461.2	R 8,653.7	133.1	R 9,915.0	6,431.9	R 16,346.9
2010	87.2	1,120.6	2,345.9	304.6	290.1	6,806.4	197.8	R 641.0	R 10,585.8	177.1	R 11,970.6	7,003.9	R 18,974.5
2011	95.1	992.4	R 3,021.4	300.1	352.7	8,385.0	295.8	R 703.0	R 13,058.0	214.0	R 14,359.4	7,081.3	R 21,440.7
2012	56.1	837.3	R 2,797.1	213.6	323.7	8,716.2	255.4	R 641.3	R 12,947.4	208.1	R 14,048.9	7,079.7	R 21,128.6
2013	53.5	1,019.8	R 3,107.1	225.1	285.7	8,682.9	167.7	R 806.0	R 13,274.4	203.8	R 14,551.5	7,264.7	R 21,816.2
2014	59.1	R 1,158.9	R 2,924.5	300.8	310.7	8,322.5	109.1	R 807.0	R 12,774.6	R 254.1	R 14,246.7	7,889.8	R 22,136.6
2015	43.9	955.3	R 2,162.4	190.0	187.4	6,262.7	86.7	R 713.8	R 9,603.0	212.8	R 10,814.9	7,792.2	R 18,607.1
2016	30.4	918.6	R 1,960.5	181.1	170.2	5,806.3	63.5	R 631.2	R 8,812.7	R 208.3	R 9,969.9	7,788.2	R 17,758.1
2017	24.4	1,035.0	R 2,263.4	224.5	218.9	6,509.0	125.0	560.7	R 9,901.5	R 209.1	R 11,170.0	7,782.6	R 18,952.6
2018	20.0	R 1,145.9	R 2,765.8	248.9	R 298.6	6,965.0	164.5	624.5	R 11,067.4	R 194.8	R 12,428.1	7,891.2	R 20,319.3
2019	16.5	1,073.0	R 2,765.7	188.6	R 292.3	6,505.8	11.6	R 638.3	R 10,402.3	R 188.8	R 11,680.5	8,035.7	R 19,716.2
2020	13.7	R 972.2	R 2,221.1	180.2	173.4	4,856.7	9.0	R 508.1	R 7,948.5	R 145.6	R 9,080.0	7,596.7	R 16,676.7
2021	13.9	1,289.9	R 2,875.9	258.8	R 267.5	7,415.8	119.2	R 591.5	R 11,528.7	R 189.8	R 13,022.2	7,947.4	R 20,969.6
2022	13.2	R 1,725.9	R 4,384.3	276.7	R 436.5	9,298.3	209.9	R 776.2	R 15,382.0	R 212.7	R 17,333.8	8,884.8	R 26,218.6
2023	14.4	1,315.5	3,636.9	217.4	361.4	8,660.1	143.9	715.4	13,735.0	214.7	15,279.7	8,523.2	23,802.9

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. · Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2023, South Carolina

Year	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
	Prices in dollars per million Btu									
1970	1.20	1.32	1.30	2.42	1.58	1.60	0.73	1.43	5.64	2.73
1975	2.47	2.08	2.69	4.28	3.16	3.23	1.45	2.58	9.60	5.65
1980	3.19	4.06	6.95	7.47	8.27	7.50	3.70	5.60	13.69	9.57
1985	3.48	6.44	7.19	9.72	7.93	8.16	4.19	7.01	20.54	14.40
1990	3.34	6.97	7.57	10.57	8.62	8.79	3.53	7.51	20.95	15.99
1995	3.10	7.34	6.67	11.67	7.30	9.24	2.87	7.55	22.07	16.73
2000	—	8.90	9.83	15.40	9.71	12.85	4.37	9.72	22.22	17.92
2005	—	14.30	15.55	21.22	14.70	18.79	6.83	15.16	25.42	22.36
2006	4.88	16.73	17.17	23.56	18.46	21.38	7.87	17.43	26.46	24.03
2007	4.55	16.55	18.52	25.90	20.91	24.13	8.70	17.79	26.92	24.58
2008	—	16.30	24.52	30.82	23.27	29.55	10.72	18.61	28.98	26.22
2009	—	14.46	17.37	26.51	21.85	24.98	8.05	16.16	30.61	26.78
2010	—	12.72	20.48	30.38	24.28	28.73	9.50	15.52	30.77	26.58
2011	—	12.66	27.36	33.72	27.64	32.71	11.42	15.99	32.40	28.31
2012	—	13.00	27.27	31.88	29.69	31.17	12.71	15.73	34.49	30.17
2013	—	12.39	28.29	31.77	29.52	31.37	12.45	14.88	35.15	29.77
2014	—	12.36	27.34	36.17	29.88	35.50	12.14	15.43	36.49	30.71
2015	—	12.25	17.90	31.31	16.97	29.33	8.37	14.46	36.84	31.19
2016	—	12.23	15.49	31.14	13.53	28.67	7.15	14.34	37.08	31.56
2017	—	14.02	17.64	34.31	16.92	32.30	8.00	16.60	38.15	32.98
2018	—	13.12	19.24	35.40	24.44	33.68	8.85	15.75	36.46	31.04
2019	—	12.72	18.78	31.59	22.82	30.12	8.51	14.79	38.08	32.15
2020	—	13.08	16.38	28.73	14.82	R 27.28	7.04	R 14.88	37.47	R 31.81
2021	—	13.86	19.57	34.76	23.41	32.97	8.45	R 16.19	37.70	R 31.88
2022	—	15.21	29.58	37.40	37.48	36.61	13.07	R 17.73	39.82	R 33.96
2023	—	16.97	28.06	36.15	33.35	35.18	11.95	19.14	40.10	34.74
	Expenditures in million dollars									
1970	3.9	25.6	18.2	13.1	18.0	49.2	2.1	80.8	141.3	222.2
1975	4.2	38.8	26.6	22.7	15.4	64.7	4.2	111.9	322.3	434.2
1980	3.2	79.1	64.0	34.2	56.3	154.5	12.8	249.6	587.6	837.2
1985	1.2	108.7	53.9	54.8	54.5	163.2	18.1	291.2	1,027.5	1,318.7
1990	0.1	131.8	52.9	53.9	26.9	133.7	8.2	273.8	1,305.1	1,578.9
1995	0.2	189.6	26.9	74.5	19.5	120.8	10.0	320.6	1,610.5	1,931.1
2000	—	265.9	27.6	106.3	28.3	162.2	12.2	440.2	1,916.2	2,356.4
2005	—	423.5	21.8	135.8	39.7	197.3	10.3	631.0	2,487.1	3,118.1
2006	0.9	432.7	21.0	120.5	37.8	179.4	10.5	623.6	2,576.3	3,199.8
2007	(s)	431.5	18.4	133.0	22.7	174.1	12.8	618.3	2,716.4	3,334.7
2008	—	456.4	21.7	177.8	10.5	210.0	17.6	684.0	2,939.0	3,623.0
2009	—	405.0	15.8	145.1	9.8	170.7	12.3	588.0	3,086.9	3,674.9
2010	—	421.9	17.6	188.5	17.0	223.0	15.6	660.5	3,449.6	4,110.1
2011	—	347.2	17.5	166.8	8.6	192.8	18.2	558.2	3,404.9	3,963.1
2012	—	302.6	17.0	116.3	3.4	136.7	16.9	456.2	3,338.1	3,794.3
2013	—	361.2	12.6	129.6	3.9	146.1	21.6	528.9	3,455.7	3,984.6
2014	—	403.6	6.5	174.2	6.7	187.5	21.3	612.4	3,824.3	4,436.7
2015	—	358.6	9.2	124.3	2.7	136.3	6.1	500.9	3,778.5	R 4,279.4
2016	—	347.8	7.6	118.5	2.6	128.7	4.5	481.0	3,873.8	4,354.8
2017	—	369.5	8.2	139.5	1.5	149.2	4.1	522.8	3,804.3	4,327.1
2018	—	430.6	8.4	158.8	3.7	170.9	6.0	607.6	3,962.9	R 4,570.5
2019	—	396.2	8.0	123.8	3.0	134.7	5.5	536.4	4,048.1	4,584.5
2020	—	392.7	6.7	118.8	1.8	127.3	R 3.4	R 523.4	3,940.9	R 4,464.3
2021	—	474.5	9.4	151.7	3.4	164.5	R 4.1	R 643.0	4,037.5	R 4,680.5
2022	—	524.3	14.2	155.0	4.8	174.0	R 7.6	R 706.0	4,387.0	R 5,093.0
2023	—	533.6	12.7	135.3	7.4	155.4	4.3	693.3	4,228.1	4,921.4

[a] Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2023, South Carolina

Year	Primary energy										Electricity [j]	Total energy [g,h,i]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f,g]	Total [g,h,i]		
	Prices in dollars per million Btu											
1970	0.50	0.86	1.01	1.37	0.63	2.75	0.46	1.29	0.73	0.97	4.85	2.37
1975	1.53	1.22	2.32	2.59	2.29	4.35	1.15	2.57	1.45	1.62	8.55	4.75
1980	1.70	3.11	6.33	4.05	5.15	10.18	3.41	6.17	3.70	3.55	12.07	7.51
1985	1.77	5.60	6.22	9.94	7.93	8.84	4.50	7.50	4.19	6.13	18.01	12.66
1990	1.74	5.74	5.52	9.95	8.62	8.80	3.25	7.40	1.94	6.15	17.92	13.63
1995	1.71	5.93	4.32	9.04	7.30	8.39	2.72	5.95	1.67	5.70	18.52	13.70
2000	—	7.51	7.31	12.27	9.71	11.14	4.40	9.32	2.05	7.76	18.59	14.89
2005	—	13.24	13.08	17.00	14.70	17.48	7.11	14.35	3.12	13.11	21.66	19.02
2006	3.18	13.58	15.03	18.86	18.46	19.52	8.26	16.59	2.82	13.22	22.29	19.49
2007	3.07	13.06	16.47	21.15	20.91	21.35	9.56	18.32	3.37	13.89	22.70	20.17
2008	4.77	13.80	24.20	25.51	23.27	25.60	13.88	24.80	3.98	15.84	24.69	22.03
2009	5.22	10.82	14.22	19.59	21.85	17.86	10.11	16.53	2.91	11.59	25.61	21.63
2010	4.79	10.11	18.02	22.98	24.28	21.31	—	20.29	9.50	12.20	26.08	22.03
2011	—	9.48	24.19	26.75	27.64	27.05	16.81	25.36	11.42	12.74	27.25	23.19
2012	5.39	8.50	24.81	20.66	29.69	27.69	—	23.00	12.71	11.62	28.22	23.60
2013	—	8.94	24.30	20.72	29.52	27.04	—	22.78	12.45	11.52	28.95	23.82
2014	—	9.33	22.39	22.55	29.88	26.05	17.01	22.57	12.14	11.91	30.12	24.56
2015	—	8.27	13.86	13.02	16.97	18.54	9.40	16.00	8.37	10.78	29.94	23.67
2016	—	8.16	11.97	12.13	13.53	16.91	7.38	R 14.42	7.15	10.26	30.12	23.61
2017	—	9.03	14.01	16.12	16.92	18.82	9.64	16.85	8.00	11.75	30.99	24.62
2018	—	9.13	17.19	17.58	24.44	20.48	10.19	18.86	8.85	12.32	29.63	23.74
2019	—	8.40	15.81	13.85	22.82	19.08	9.71	17.14	8.51	11.19	31.00	R 24.27
2020	—	8.35	10.62	13.05	14.82	16.05	7.64	14.05	7.04	10.24	30.34	23.46
2021	—	9.59	16.17	20.34	23.41	22.36	11.42	20.34	8.45	13.04	31.28	24.83
2022	—	11.79	28.28	21.58	37.48	28.72	17.01	27.02	13.07	16.86	31.82	26.90
2023	—	11.16	22.40	17.29	33.35	25.88	15.00	23.33	11.95	15.24	30.46	25.70
	Expenditures in million dollars											
1970	1.3	12.3	4.2	3.6	0.2	3.0	0.2	11.2	(s)	24.8	70.1	94.9
1975	6.1	21.5	6.8	6.7	0.3	5.1	1.2	20.2	0.1	47.9	207.8	255.7
1980	6.5	73.5	17.8	9.1	0.7	12.8	0.7	41.1	0.3	121.4	358.4	479.8
1985	2.3	88.0	34.0	27.5	2.2	10.7	2.3	76.6	0.4	167.3	600.8	768.1
1990	0.2	90.8	23.2	24.9	0.6	11.8	0.4	60.9	1.4	153.3	776.3	929.6
1995	0.6	115.0	25.2	28.3	1.1	1.4	0.7	56.6	2.2	174.4	939.5	1,113.9
2000	—	170.7	32.3	41.5	3.0	2.0	1.4	80.2	2.8	253.7	1,169.5	1,423.2
2005	—	302.9	47.3	48.0	2.3	3.1	3.5	104.1	3.7	410.7	1,514.9	1,925.7
2006	6.2	291.5	60.5	52.4	2.8	3.5	0.9	120.2	3.4	421.3	1,591.1	2,012.4
2007	(s)	283.4	65.9	55.0	2.2	3.9	0.9	127.8	4.1	415.3	1,684.1	2,099.4
2008	1.6	317.8	89.7	82.4	2.4	4.6	(s)	179.1	4.8	503.2	1,825.8	2,329.0
2009	0.5	245.0	42.0	41.1	0.8	3.2	(s)	87.1	2.7	335.3	1,873.1	2,208.4
2010	0.2	249.4	62.9	62.4	2.5	3.7	—	131.5	2.0	383.2	1,986.4	2,369.6
2011	—	214.1	77.4	65.8	0.7	4.8	0.1	148.8	2.3	365.2	2,007.5	2,372.7
2012	(s)	185.7	75.3	56.5	0.3	4.8	—	137.0	2.3	325.0	2,046.0	2,371.0
2013	—	217.1	R 69.8	51.8	0.2	4.9	—	R 126.7	2.6	R 346.4	2,086.1	R 2,432.5
2014	—	242.6	R 68.9	67.8	0.2	4.5	0.2	R 141.7	R 2.5	386.7	2,225.6	2,612.3
2015	—	202.4	R 44.4	34.7	0.1	109.8	0.3	R 189.4	R 0.8	392.5	2,239.7	2,632.2
2016	—	199.8	R 42.7	31.6	0.1	104.4	0.6	R 179.4	R 0.7	380.0	2,289.0	2,668.9
2017	—	215.6	R 49.6	48.6	0.1	117.6	0.1	R 216.0	0.7	R 432.2	2,300.9	2,733.0
2018	—	239.4	R 59.8	45.6	0.4	134.6	1.9	R 242.4	R 0.8	482.6	2,247.5	2,730.1
2019	—	221.9	R 52.1	35.9	0.3	125.3	(s)	R 213.6	R 0.7	436.1	2,344.6	2,780.7
2020	—	205.6	R 32.4	33.7	0.2	105.8	0.3	R 172.3	0.7	R 378.6	2,156.6	2,535.1
2021	—	255.7	49.3	58.8	0.2	148.3	0.9	R 257.5	R 0.8	R 514.0	2,253.8	R 2,767.7
2022	—	315.7	85.4	62.4	0.3	212.5	1.3	R 362.1	1.2	R 679.0	2,619.6	3,298.5
2023	—	288.9	63.6	46.4	0.5	194.5	1.0	306.0	0.8	595.7	2,618.0	3,213.7

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[g] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[j] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: Expenditure totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2023, South Carolina

	Primary energy													
	Coal				Petroleum						Biomass			
	Coking coal	Steam coal	Total	Natural gas [a]	Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e,f]	Total [f,g,h]	Electricity [i]	Total energy [f,g,h]
Year	Prices in dollars per million Btu													
1970	—	0.50	0.50	0.45	0.58	1.44	2.75	0.40	1.00	0.83	1.48	0.61	2.41	0.90
1975	—	1.53	1.53	1.00	2.12	2.82	4.35	1.82	2.49	2.26	1.48	1.54	5.80	2.43
1980	—	1.70	1.70	2.89	4.62	4.42	10.18	3.53	5.32	4.40	1.46	3.05	8.56	4.20
1985	—	1.77	1.77	4.57	6.49	11.16	8.84	4.50	6.09	6.22	1.46	3.96	12.02	6.26
1990	—	1.74	1.74	3.26	5.88	11.09	8.80	3.25	4.58	5.20	0.94	2.99	12.24	5.37
1995	—	1.71	1.71	3.03	4.55	8.45	8.39	2.72	4.69	4.64	1.18	2.71	11.73	5.05
2000	—	1.64	1.64	4.79	7.62	12.67	11.14	4.40	4.54	6.14	1.43	3.98	10.96	6.06
2005	—	2.93	2.93	9.66	13.45	18.09	17.48	7.11	5.42	8.28	2.75	6.87	13.33	8.74
2006	—	3.18	3.18	8.87	15.44	20.37	19.52	8.26	6.27	9.32	2.68	6.95	13.81	8.93
2007	—	3.07	3.07	8.53	16.63	22.88	21.35	9.56	6.84	10.00	2.54	6.97	14.15	9.12
2008	—	3.72	3.72	10.67	24.62	28.04	25.60	13.88	9.60	14.13	2.87	8.99	15.73	11.04
2009	—	3.71	3.71	5.88	15.28	21.84	17.86	10.11	7.15	9.40	2.71	6.22	16.97	9.39
2010	—	3.64	3.64	5.98	18.34	21.51	21.31	12.85	R 11.85	R 13.81	2.74	R 6.85	16.83	R 9.90
2011	—	4.09	4.09	5.48	24.35	26.11	27.05	16.81	R 16.23	R 18.81	2.85	R 7.37	17.41	R 10.46
2012	—	4.35	4.35	4.22	25.38	19.76	27.69	17.59	R 15.24	R 18.41	2.69	R 6.81	17.65	R 10.19
2013	—	4.03	4.03	5.18	24.85	19.82	27.04	17.38	R 19.81	R 21.01	2.68	R 7.59	17.61	R 10.78
2014	—	4.11	4.11	6.00	24.17	21.72	26.05	17.01	R 18.98	R 20.40	3.27	R 8.07	18.44	R 11.34
2015	—	3.87	3.87	4.50	15.41	11.79	18.54	9.40	R 13.05	R 13.68	3.17	R 6.32	17.72	R 9.92
2016	—	3.59	3.59	4.07	12.91	10.87	16.91	7.38	R 11.62	R 12.03	3.09	R 5.70	17.85	R 9.27
2017	—	3.62	3.62	4.71	14.66	14.84	18.82	9.64	12.40	13.47	3.03	6.03	18.13	9.67
2018	—	3.75	3.75	4.80	17.71	16.28	20.48	10.19	14.80	15.90	2.78	6.52	17.88	9.94
2019	—	3.85	3.85	4.53	16.38	12.52	19.08	9.71	R 14.86	15.38	2.74	R 6.30	17.92	9.74
2020	—	3.89	3.89	3.80	11.64	11.71	16.05	7.64	14.14	13.26	2.26	5.27	17.52	8.86
2021	—	4.10	4.10	5.43	16.06	18.90	22.36	11.42	16.22	16.74	2.87	6.78	17.79	10.15
2022	—	5.51	5.51	8.66	27.61	20.04	28.72	17.01	R 24.92	R 25.56	3.10	R 9.94	20.90	R 13.25
2023	—	7.56	7.56	5.01	23.96	15.70	25.88	15.00	16.84	19.06	3.28	7.60	19.57	11.07
	Expenditures in million dollars													
1970	—	22.0	22.0	36.4	8.9	4.1	4.8	4.0	18.5	40.3	13.4	112.1	83.3	195.4
1975	—	43.2	43.2	72.3	25.2	10.6	4.8	30.7	51.6	122.9	13.8	252.2	252.6	504.8
1980	—	74.9	74.9	275.2	50.4	21.3	5.1	94.2	104.8	275.8	9.2	635.2	466.5	1,101.6
1985	—	111.3	111.3	296.3	71.7	31.9	32.6	63.1	120.6	319.9	10.7	738.2	895.4	1,633.6
1990	—	101.2	101.2	290.9	79.4	32.5	32.5	38.6	120.6	303.5	36.8	732.4	1,031.9	1,764.3
1995	—	94.4	94.4	305.8	50.4	37.2	18.6	36.1	144.8	287.1	74.0	761.3	1,152.9	1,914.2
2000	—	82.4	82.4	479.7	99.4	99.9	19.3	48.0	171.5	437.9	66.1	1,066.0	1,246.1	2,312.1
2005	—	113.8	113.8	741.5	240.4	68.0	93.8	148.8	292.1	843.1	137.6	1,836.0	1,459.6	3,295.6
2006	—	117.7	117.7	710.7	227.0	74.4	109.9	95.0	361.1	867.3	146.8	1,842.6	1,480.8	3,323.4
2007	—	100.9	100.9	674.4	219.9	58.7	78.3	96.4	340.9	794.1	135.1	1,704.5	1,479.3	3,183.7
2008	—	110.7	110.7	793.3	316.8	54.8	99.7	90.2	434.8	996.3	155.7	2,056.0	1,569.7	3,625.7
2009	—	85.9	85.9	391.8	147.4	44.6	67.6	58.4	375.4	693.4	118.0	1,289.1	1,471.9	2,761.0
2010	—	87.0	87.0	449.2	155.6	51.5	56.0	53.9	R 439.7	R 756.7	159.5	R 1,452.4	1,567.9	R 3,020.2
2011	—	95.1	95.1	431.0	198.4	64.6	69.4	55.4	R 487.5	R 875.3	193.4	R 1,594.8	1,668.8	R 3,263.7
2012	—	56.1	56.1	349.0	248.5	38.7	73.5	36.3	R 451.9	R 848.9	188.9	R 1,442.9	1,695.6	R 3,138.5
2013	—	53.5	53.5	441.3	169.2	41.1	75.3	19.1	R 604.3	R 909.0	179.6	R 1,583.4	1,722.9	R 3,306.3
2014	—	59.1	59.1	512.3	207.5	56.7	61.0	19.5	R 602.3	R 947.1	230.3	R 1,748.8	1,840.0	R 3,588.8
2015	—	43.9	43.9	393.9	143.6	29.2	55.8	3.9	R 495.2	R 727.7	205.9	R 1,371.4	1,774.0	R 3,145.4
2016	—	30.4	30.4	370.2	129.9	28.8	50.8	8.4	R 425.2	R 643.0	203.1	R 1,246.7	1,625.5	R 2,872.1
2017	—	24.4	24.4	448.1	167.4	32.0	57.0	3.1	365.3	624.8	204.3	1,301.6	1,677.4	2,979.1
2018	—	20.0	20.0	474.7	209.0	39.8	64.0	9.3	420.5	742.7	188.0	1,425.4	1,680.8	3,106.2
2019	—	16.5	16.5	453.6	191.7	25.8	59.7	3.5	R 437.4	R 718.0	182.6	R 1,370.7	1,643.1	R 3,013.8
2020	—	13.7	13.7	373.0	148.5	24.3	50.7	7.4	R 329.4	R 560.2	141.5	1,088.4	1,499.3	R 2,587.7
2021	—	13.9	13.9	558.8	173.0	43.6	69.6	6.4	R 379.7	R 672.3	185.0	R 1,429.9	1,656.2	R 3,086.1
2022	—	13.2	13.2	884.7	300.6	52.6	93.1	9.8	R 514.3	R 970.3	R 203.9	R 2,072.1	1,878.2	R 3,950.4
2023	—	14.4	14.4	492.2	254.6	30.2	85.2	7.2	502.2	879.3	209.7	1,595.6	1,677.1	3,272.7

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[i] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET6. Transportation sector energy price and expenditure estimates, selected years, 1970-2023, South Carolina

Year	Primary energy											Electricity [g]	Total energy [f]
			Petroleum										
	Coal	Natural gas[a]	Aviation gasoline	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Lubricants	Motor gasoline [e]	Residual fuel oil	Total	Total [f]		
	Prices in dollars per million Btu												
1970	0.50	—	2.17	1.32	1.37	0.73	5.08	2.75	0.41	2.34	2.34	—	2.34
1975	1.53	—	3.45	3.01	2.59	2.03	7.48	4.35	1.52	4.04	4.04	—	4.04
1980	—	—	9.02	7.63	4.05	6.46	14.36	10.18	2.90	9.42	9.42	—	9.42
1985	—	—	9.99	7.36	11.33	6.11	18.18	8.84	3.82	8.39	8.39	—	8.39
1990	—	—	9.32	8.17	11.76	6.07	20.61	8.80	2.58	8.53	8.53	—	8.53
1995	—	4.54	8.36	7.35	11.46	4.21	21.75	8.39	2.53	8.13	8.13	—	8.13
2000	—	5.35	10.87	10.09	15.59	6.92	23.20	11.14	4.11	10.80	10.80	—	10.80
2005	—	9.58	18.56	16.67	20.05	13.24	35.22	17.48	6.90	17.02	17.02	—	17.02
2006	—	14.62	22.31	18.48	21.57	14.92	43.88	19.52	8.79	18.99	18.99	—	18.99
2007	—	10.46	23.70	19.65	23.45	15.75	47.16	21.35	9.37	20.62	20.62	—	20.62
2008	—	12.87	27.23	26.88	27.54	22.61	55.12	25.60	13.27	25.65	25.65	—	25.65
2009	—	12.12	20.32	16.71	20.94	12.74	56.07	17.86	9.51	17.43	17.43	—	17.43
2010	—	10.91	25.19	20.28	24.99	16.62	58.80	21.31	10.48	20.81	20.81	—	20.81
2011	—	8.66	31.64	26.09	29.37	23.06	69.54	27.05	14.31	26.48	26.48	—	26.48
2012	—	9.58	33.04	26.95	23.04	23.58	72.11	27.69	15.92	27.29	27.29	—	27.29
2013	—	R 10.08	32.71	26.64	23.10	22.52	69.42	27.04	15.29	26.83	26.83	—	26.83
2014	—	R 10.36	33.16	25.89	24.99	20.96	69.44	26.05	14.77	25.96	25.96	—	25.96
2015	—	R 10.17	24.86	18.34	15.09	12.24	67.28	18.54	7.95	18.38	18.38	—	18.38
2016	—	R 8.19	21.62	15.44	14.17	10.28	65.78	16.91	5.77	16.41	16.41	—	16.41
2017	—	R 10.10	24.13	17.74	18.48	12.18	67.25	18.82	8.17	18.28	18.27	—	18.27
2018	—	R 9.84	27.04	21.05	20.18	15.50	72.37	20.48	10.21	20.39	20.39	—	20.39
2019	—	R 9.56	25.57	20.26	16.45	14.45	74.92	19.08	9.61	19.47	19.47	—	19.47
2020	—	R 8.76	22.34	17.07	15.52	10.41	75.34	16.05	7.01	16.42	16.42	—	16.42
2021	—	R 8.41	28.86	21.81	24.22	14.39	81.25	22.36	10.59	21.96	21.95	—	21.95
2022	—	R 11.12	36.02	33.80	24.69	24.62	97.37	28.72	18.35	R 29.99	R 29.99	—	R 29.99
2023	—	8.49	32.62	28.51	19.77	20.04	105.48	25.88	15.10	26.42	26.41	—	26.41
	Expenditures in million dollars												
1970	(s)	—	2.5	22.3	0.3	12.4	7.3	408.0	4.1	457.0	457.0	—	457.0
1975	(s)	—	2.5	70.5	0.8	29.5	9.7	799.5	4.0	916.4	916.4	—	916.4
1980	—	—	6.8	273.6	0.5	107.1	22.7	1,881.0	15.4	2,307.1	2,307.1	—	2,307.1
1985	—	—	6.9	340.7	6.1	105.3	26.2	1,708.8	14.6	2,208.5	2,208.6	—	2,208.6
1990	—	—	4.8	500.5	3.9	97.4	33.4	1,954.8	8.1	2,602.8	2,607.2	—	2,607.2
1995	—	(s)	5.2	458.1	3.4	24.5	33.6	2,031.8	6.9	2,563.5	2,563.5	—	2,563.5
2000	—	0.1	4.2	868.7	3.3	73.0	38.3	3,052.9	9.6	4,050.0	4,050.1	—	4,050.1
2005	—	0.1	9.1	1,676.6	8.5	120.8	49.0	5,285.5	67.8	7,217.4	7,217.5	—	7,217.5
2006	—	0.1	12.3	1,946.2	10.0	152.7	59.5	6,139.8	94.8	8,415.3	8,415.5	—	8,415.5
2007	—	0.1	12.9	2,092.3	8.0	168.0	66.1	6,650.9	92.1	9,090.3	9,090.4	—	9,090.4
2008	—	0.1	9.7	2,565.7	17.5	224.5	71.7	8,045.5	118.9	11,053.4	11,053.6	—	11,053.6
2009	—	0.1	9.6	R 1,557.8	8.8	77.7	65.6	5,873.5	109.5	R 7,702.5	R 7,702.7	—	R 7,702.7
2010	—	0.1	10.2	2,109.8	2.2	290.1	171.6	6,746.6	144.0	R 9,474.5	9,474.6	—	9,474.6
2011	—	0.1	11.2	R 2,728.1	2.9	352.7	195.0	8,310.9	240.4	R 11,841.1	R 11,841.2	—	R 11,841.2
2012	—	0.1	7.0	R 2,456.2	2.1	323.7	178.7	8,637.9	219.1	R 11,824.8	R 11,824.9	—	R 11,824.9
2013	—	0.2	6.1	R 2,855.5	2.5	285.7	191.5	8,602.7	148.5	R 12,092.6	R 12,092.8	—	R 12,092.8
2014	—	R 0.4	8.6	R 2,641.6	2.1	310.7	189.1	8,257.0	89.3	R 11,498.3	R 11,498.8	—	R 11,498.8
2015	—	0.4	6.5	R 1,965.1	1.7	187.4	209.2	6,097.1	82.5	R 8,549.6	R 8,550.1	—	R 8,550.1
2016	—	R 0.7	5.8	R 1,780.3	2.2	170.2	197.5	5,651.1	54.5	R 7,861.5	R 7,862.2	—	R 7,862.2
2017	—	1.8	6.8	R 2,038.2	4.4	218.9	187.0	6,334.4	121.8	R 8,911.5	R 8,913.4	—	R 8,913.4
2018	—	R 1.2	8.2	R 2,488.6	4.7	R 298.6	191.5	6,766.4	153.3	R 9,911.4	R 9,912.6	—	R 9,912.6
2019	—	1.3	8.6	2,514.0	3.2	R 292.3	R 189.0	6,320.9	8.0	R 9,335.9	R 9,337.2	—	R 9,337.2
2020	—	R 0.9	6.5	R 2,033.6	3.4	173.4	R 170.2	4,700.2	1.4	R 7,088.7	R 7,089.6	—	R 7,089.6
2021	—	R 0.8	9.7	R 2,644.2	4.7	R 267.5	R 198.5	7,197.9	111.9	R 10,434.5	R 10,435.3	—	R 10,435.3
2022	—	R 1.1	12.6	R 3,984.0	6.8	R 436.5	R 244.2	8,992.7	198.8	R 13,875.6	R 13,876.7	—	R 13,876.7
2023	—	0.7	10.8	3,305.9	5.5	361.4	194.5	8,380.4	135.8	12,394.3	12,395.1	—	12,395.1

[a] Transportation use of natural gas as vehicle fuel only.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET7. Electric power sector price and expenditure estimates, selected years, 1970-2023, South Carolina

Year	Coal	Natural gas [a]	Petroleum: Distillate fuel oil	Petroleum: Petroleum coke	Petroleum: Residual fuel oil	Petroleum: Total	Nuclear fuel	Biomass: Wood and waste [b]	Electricity imports [c]	Total energy [d]
	Prices in dollars per million Btu									
1970	0.43	0.37	0.70	—	0.46	0.52	0.19	—	—	0.42
1975	1.14	0.71	2.41	—	1.14	1.17	0.19	—	—	0.56
1980	1.56	2.41	5.78	—	3.44	3.91	0.44	—	—	1.14
1985	1.91	4.54	5.73	—	3.94	5.72	0.62	—	—	1.11
1990	1.72	1.72	6.22	—	3.02	6.00	0.53	—	—	0.95
1995	1.51	1.60	4.11	—	2.48	3.67	0.51	—	—	0.86
2000	1.39	5.57	6.72	—	4.25	6.16	0.42	—	—	0.90
2005	2.16	10.27	12.81	1.01	6.83	6.18	0.40	0.83	—	1.58
2006	2.32	7.75	14.92	1.19	8.55	13.02	0.39	2.64	—	1.59
2007	2.33	7.86	15.87	—	8.90	14.94	0.38	2.42	—	1.58
2008	2.86	10.12	18.20	2.41	13.42	12.62	0.40	2.66	—	1.90
2009	3.64	4.01	13.36	1.07	9.39	4.07	0.47	2.20	—	1.90
2010	3.71	4.77	16.98	0.90	11.59	14.23	0.55	2.40	—	2.13
2011	3.84	4.26	22.33	—	—	22.33	0.58	2.44	—	2.10
2012	3.97	3.62	23.15	—	—	23.15	0.63	0.39	—	2.03
2013	3.75	4.58	23.10	—	—	23.10	0.68	0.73	—	1.93
2014	3.63	4.91	22.60	—	—	22.60	0.64	0.68	—	2.03
2015	3.55	3.37	14.83	—	—	14.83	0.66	0.69	—	1.79
2016	3.19	3.28	11.17	—	—	11.17	0.68	0.84	—	1.63
2017	3.30	3.51	12.99	—	—	12.99	0.70	0.85	—	1.68
2018	3.33	4.18	17.22	—	—	17.22	0.65	0.86	—	1.94
2019	3.20	3.18	15.13	—	—	15.13	0.62	0.87	—	1.57
2020	3.13	2.71	10.31	—	—	10.31	0.61	0.87	—	1.43
2021	2.91	4.22	15.50	—	—	15.50	1.01	0.88	—	1.99
2022	3.54	R 7.11	27.63	—	—	27.63	0.57	0.89	—	2.48
2023	3.57	3.95	22.28	—	—	22.28	0.55	0.85	—	1.77
	Expenditures in million dollars									
1970	39.0	17.1	3.1	—	5.9	9.0	(s)	—	—	65.0
1975	120.9	10.7	1.7	—	31.6	33.3	40.6	—	—	205.4
1980	306.6	13.4	19.1	—	45.0	64.1	83.4	—	—	467.6
1985	378.4	2.3	6.1	—	(s)	6.1	210.7	—	—	597.5
1990	397.4	12.3	4.3	—	0.2	4.4	240.6	—	—	654.6
1995	391.5	10.9	4.8	—	1.1	5.8	264.0	—	—	672.2
2000	530.8	49.1	23.7	—	4.5	28.1	222.8	—	—	830.8
2005	846.4	478.5	24.7	2.6	3.1	30.3	223.0	5.7	—	1,584.0
2006	912.3	404.2	19.3	0.2	1.5	21.0	206.9	18.3	—	1,562.8
2007	956.5	413.8	29.2	—	2.5	31.8	213.2	15.6	—	1,630.9
2008	1,188.9	483.7	17.5	1.3	0.4	19.2	217.4	18.2	—	1,927.4
2009	1,269.3	309.1	13.8	3.8	2.1	19.7	255.2	18.7	—	1,872.0
2010	1,412.9	427.0	22.1	0.2	0.8	23.2	300.6	21.1	—	2,184.8
2011	1,315.6	440.2	21.5	—	—	21.5	321.6	21.6	—	2,120.5
2012	1,133.5	431.6	24.0	—	—	24.0	337.7	4.1	—	1,930.8
2013	914.9	438.4	24.3	—	—	24.3	384.1	8.6	—	1,770.2
2014	1,056.2	439.4	61.5	—	—	61.5	351.3	11.0	—	1,919.4
2015	816.2	472.5	29.3	—	—	29.3	366.0	11.9	—	1,695.9
2016	681.3	450.2	10.8	—	—	10.8	399.5	13.7	—	1,555.6
2017	614.2	490.2	13.6	—	—	13.6	395.9	14.5	—	1,528.3
2018	665.1	744.4	58.0	—	—	58.0	359.0	13.9	—	1,840.5
2019	501.1	596.1	12.5	—	—	12.5	363.4	14.0	—	1,487.2
2020	419.0	510.3	7.6	—	—	7.6	350.5	13.4	—	1,300.8
2021	463.2	774.0	13.8	—	—	13.8	564.1	12.9	—	1,828.0
2022	525.5	R 1,387.0	55.3	—	—	55.3	325.2	13.7	—	R 2,306.8
2023	573.3	746.2	21.3	—	—	21.3	321.5	10.3	—	1,672.7

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[c] Electricity imported from Canada and Mexico.
[d] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET1. Primary energy, electricity, and total energy price and expenditure estimates, selected years, 1970-2023, South Dakota

Year	Primary energy														Electric power sector [i,k,l]	Electricity [m]	Total energy [h,i,j]
	Coal			Natural gas [a]	Petroleum							Nuclear fuel	Biomass				
	Coking coal	Steam coal	Total		Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total		Wood and waste [g,h]	Total [h,i,j,k]			
	Prices in dollars per million Btu																
1970	—	0.44	0.44	0.69	0.97	1.59	0.75	2.97	0.70	1.44	2.05	—	1.20	1.65	0.41	7.38	2.12
1975	—	0.53	0.53	1.04	2.60	3.06	2.09	4.70	2.15	2.90	3.77	—	1.41	2.72	0.58	8.21	3.63
1980	—	0.84	0.84	2.83	6.53	5.58	6.47	10.14	3.28	6.07	8.19	—	2.37	5.73	0.83	12.95	7.74
1985	—	1.37	1.37	5.01	6.76	8.11	6.29	9.26	4.43	7.07	8.08	—	2.63	6.09	1.22	17.38	8.55
1990	—	1.22	1.22	4.41	6.84	8.67	6.21	9.40	2.61	6.24	8.10	—	3.27	6.12	1.18	17.96	8.69
1995	—	1.08	1.08	4.17	6.38	7.25	4.54	9.16	2.36	6.44	7.61	—	2.63	5.64	1.07	18.18	8.28
2000	—	1.06	1.06	6.11	9.76	10.30	7.29	12.62	3.89	6.44	10.58	—	3.88	7.47	1.39	18.52	10.54
2005	—	1.49	1.49	9.84	16.36	15.77	13.41	18.13	6.53	7.54	15.97	—	5.91	12.04	2.19	19.35	15.18
2006	—	1.60	1.60	9.86	18.64	17.58	15.38	20.61	7.64	10.72	18.47	—	6.18	13.43	2.18	19.64	16.84
2007	—	1.66	1.66	8.91	20.13	19.39	17.10	22.92	8.43	13.43	20.71	—	6.81	14.74	2.70	20.19	17.69
2008	—	1.80	1.80	9.57	26.32	22.83	25.08	25.81	12.17	13.94	24.77	—	8.30	16.06	2.20	20.93	19.66
2009	—	1.81	1.81	6.96	16.91	18.00	12.61	19.16	7.83	20.51	18.12	—	6.38	12.12	1.88	21.65	15.42
2010	—	1.99	1.99	6.63	20.96	18.88	16.27	22.95	11.44	R 21.47	R 21.59	—	7.62	R 13.71	2.14	22.93	R 17.23
2011	—	2.15	2.15	6.77	27.10	21.48	22.56	29.19	15.33	R 26.87	R 27.55	—	10.09	R 17.32	2.33	23.58	R 20.47
2012	—	2.25	2.25	5.87	27.83	17.42	24.41	29.80	16.60	R 27.00	R 28.01	—	10.94	R 17.42	2.34	24.88	R 21.05
2013	—	2.08	2.08	6.04	27.60	17.62	22.06	29.07	16.37	R 28.09	R 27.47	—	11.07	R 16.47	2.34	25.96	R 20.25
2014	—	2.17	2.17	7.07	26.82	22.47	22.01	27.79	15.65	R 29.60	R 26.92	—	11.07	R 16.65	2.49	26.53	R 20.38
2015	—	2.26	2.26	5.48	18.23	12.68	13.12	19.95	10.08	R 27.15	R 18.97	—	R 7.78	R 12.70	2.56	27.76	R 16.32
2016	—	2.27	2.27	4.86	R 15.43	11.04	11.22	17.74	7.20	R 24.72	R 16.52	—	R 6.61	R 10.74	2.32	28.82	R 15.04
2017	—	2.21	2.21	5.34	17.99	15.00	12.10	19.92	9.66	22.22	18.73	—	R 7.08	12.07	2.41	29.46	16.31
2018	—	1.91	1.91	5.05	21.60	16.05	15.64	22.08	10.96	27.21	21.55	—	R 7.82	13.07	2.19	29.21	17.45
2019	—	1.84	1.84	4.72	20.48	14.10	14.37	21.05	11.16	25.95	20.34	—	R 7.41	12.13	2.04	29.18	16.65
2020	—	1.91	1.91	4.44	R 16.03	12.84	9.10	17.27	8.26	R 23.40	16.59	—	R 4.04	10.70	2.08	29.48	14.94
2021	—	1.96	1.96	6.06	22.05	19.74	14.48	24.40	12.36	R 28.51	23.15	—	R 4.37	R 14.60	2.76	30.57	18.85
2022	—	2.16	2.16	R 7.43	R 34.09	21.66	23.19	32.13	19.74	R 36.63	R 32.19	—	R 6.74	R 19.53	R 3.16	30.59	R 23.68
2023	—	2.35	2.35	5.94	28.54	18.34	19.27	28.49	17.70	35.96	28.02	—	6.44	16.62	2.65	30.73	21.31
	Expenditures in million dollars																
1970	—	2.5	2.5	25.2	24.8	16.5	4.7	154.6	1.4	10.8	212.9	—	0.4	241.0	-4.7	70.6	306.9
1975	—	12.9	12.9	33.7	58.2	33.9	11.9	262.4	2.9	20.6	390.0	—	0.7	437.2	-16.0	113.6	534.9
1980	—	30.8	30.8	67.7	182.6	52.3	46.0	516.3	2.5	35.1	834.7	—	1.8	935.1	-28.7	224.7	1,131.1
1985	—	47.4	47.4	125.9	202.9	37.3	34.6	451.3	1.0	50.4	777.7	—	2.5	956.6	-36.2	335.0	1,255.4
1990	—	42.4	42.4	111.0	236.8	117.4	36.8	443.9	1.0	42.1	878.0	—	2.4	1,038.4	-37.2	388.1	1,389.3
1995	—	40.3	40.3	131.7	232.1	62.1	36.1	477.0	0.2	43.7	851.1	—	1.9	1,025.0	-34.0	459.8	1,450.8
2000	—	53.8	53.8	188.4	342.9	100.1	42.3	676.4	3.2	82.7	1,247.6	—	2.2	1,492.7	-59.3	523.5	1,956.9
2005	—	54.9	54.9	359.2	651.8	128.4	75.8	966.9	2.5	99.4	1,924.9	—	3.1	2,342.1	-79.3	647.8	2,910.6
2006	—	63.4	63.4	344.3	740.1	140.5	82.4	1,091.7	1.4	130.7	2,186.7	—	3.3	2,597.8	-83.6	673.9	3,188.0
2007	—	55.2	55.2	426.0	907.0	172.2	85.4	1,217.4	1.8	108.5	2,492.2	—	4.0	2,977.4	-91.0	730.4	3,616.8
2008	—	77.7	77.7	575.9	1,097.5	228.5	93.7	1,327.9	3.4	123.6	2,874.6	—	5.3	3,533.6	-93.8	783.5	4,223.3
2009	—	67.9	67.9	435.1	R 708.4	182.1	50.6	1,050.1	1.1	161.1	R 2,153.4	—	5.2	2,661.7	-68.3	813.2	R 3,406.5
2010	—	77.8	77.8	441.1	909.5	147.7	71.1	1,230.1	0.2	R 201.5	R 2,560.0	—	6.5	R 3,085.4	-81.3	888.3	R 3,892.4
2011	—	69.0	69.0	451.0	R 1,250.5	149.0	83.3	1,568.0	3.7	R 168.6	R 3,223.1	—	7.4	R 3,750.6	-71.6	939.8	R 4,618.9
2012	—	80.0	80.0	376.1	R 1,284.7	108.7	109.5	1,649.1	(s)	R 243.6	R 3,395.6	—	7.0	R 3,858.7	-81.4	996.3	R 4,773.6
2013	—	71.2	71.2	462.0	R 1,264.0	133.0	90.0	1,581.2	0.2	R 163.3	R 3,231.7	—	8.7	R 3,773.7	-82.3	1,081.4	R 4,772.9
2014	—	71.7	71.7	549.3	R 1,220.9	162.5	122.8	1,543.0	0.4	R 169.1	R 3,218.6	—	R 8.6	R 3,848.2	-83.9	1,118.2	R 4,882.5
2015	—	44.3	44.3	418.2	R 839.5	79.7	69.0	1,149.2	0.3	R 159.5	R 2,297.3	—	R 6.4	R 2,766.2	-58.7	1,146.2	R 3,853.7
2016	—	60.4	60.4	380.0	R 678.9	77.1	53.2	1,036.1	0.4	R 121.3	R 1,967.0	—	R 4.6	R 2,412.0	-72.1	1,192.8	R 3,532.6
2017	—	57.8	57.8	418.9	R 779.3	100.7	R 56.7	1,148.9	0.6	129.7	R 2,215.7	—	R 5.0	R 2,697.4	-68.7	1,237.6	R 3,866.2
2018	—	52.6	52.6	447.2	R 997.1	122.3	R 58.8	1,272.8	0.6	151.8	R 2,603.3	—	R 8.7	R 3,111.8	-75.6	1,281.5	R 4,317.8
2019	—	57.7	57.7	426.7	R 951.0	126.5	R 58.5	1,175.9	0.6	R 160.2	2,472.7	—	R 7.3	R 2,964.4	-77.2	1,281.4	R 4,168.6
2020	—	41.5	41.5	380.2	R 845.3	94.4	R 34.2	933.9	0.5	166.9	R 2,075.3	—	R 6.1	R 2,503.2	-58.4	1,277.0	R 3,721.8
2021	—	42.4	42.4	548.3	R 1,027.2	147.0	R 58.4	1,447.4	0.7	R 204.0	R 2,884.7	—	R 8.1	R 3,483.5	-84.1	1,360.1	R 4,759.4
2022	—	53.4	53.4	R 680.6	R 1,594.4	158.3	R 98.0	1,870.4	1.1	R 257.6	R 3,979.8	—	R 14.1	R 4,728.0	R -105.9	1,405.5	R 6,027.5
2023	—	52.2	52.2	573.6	1,313.7	121.4	75.9	1,627.9	0.9	219.4	3,359.1	—	11.2	3,996.2	-98.4	1,416.3	5,314.1

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[l] Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
[m] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET2. Total end-use energy price and expenditure estimates, selected years, 1970-2023, South Dakota

Year	Primary energy											Electricity [k]	Total energy [h,i,j]
			Petroleum							Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g,h]	Total [h,i,j]		
	Prices in dollars per million Btu												
1970	1.09	0.74	0.97	1.59	0.75	2.97	0.69	1.44	2.08	1.20	1.75	7.38	2.12
1975	1.24	1.08	2.61	3.06	2.09	4.70	2.07	2.90	3.79	1.41	3.16	8.21	3.63
1980	1.83	2.83	6.53	5.58	6.47	10.14	3.29	6.07	8.20	2.37	7.04	12.95	7.74
1985	2.45	5.01	6.77	8.11	6.29	9.26	4.44	7.07	8.09	2.63	7.22	17.38	8.55
1990	1.77	4.43	6.85	8.67	6.21	9.40	2.61	6.24	8.10	3.27	7.24	17.96	8.69
1995	1.29	4.25	6.40	7.25	4.54	9.16	2.36	6.44	7.62	2.63	6.61	18.18	8.28
2000	1.28	6.36	9.84	10.30	7.29	12.62	3.89	6.44	10.61	3.88	9.11	18.52	10.54
2005	1.92	10.02	16.39	15.77	13.41	18.13	6.53	7.54	15.98	5.91	14.29	19.35	15.18
2006	2.29	9.99	18.64	17.58	15.38	20.61	7.64	10.72	18.47	6.18	16.22	19.64	16.84
2007	2.29	9.03	20.18	19.39	17.10	22.92	8.43	13.43	20.73	6.81	17.15	20.19	17.69
2008	2.55	9.67	26.36	22.83	25.08	25.81	12.17	13.94	24.79	8.52	19.39	20.93	19.66
2009	2.69	6.99	16.93	18.00	12.61	19.16	7.83	20.51	18.13	6.85	14.15	21.65	15.42
2010	2.49	6.66	20.97	18.88	16.27	22.95	11.44	R 21.47	R 21.59	7.62	R 16.06	22.93	R 17.23
2011	2.66	6.81	27.11	21.48	22.56	29.19	15.33	R 26.87	R 27.55	10.09	R 19.80	23.58	R 20.47
2012	2.77	5.97	27.85	17.42	24.41	29.80	16.60	R 27.00	R 28.01	10.94	R 20.23	24.88	R 21.05
2013	2.79	6.15	27.61	17.62	22.06	29.07	16.37	R 28.09	R 27.47	11.07	R 19.03	25.96	R 20.25
2014	2.85	7.20	26.83	22.47	22.01	27.79	15.65	R 29.60	R 26.92	11.07	R 19.07	26.53	R 20.38
2015	2.37	5.70	18.27	12.68	13.12	19.95	10.08	R 27.15	R 18.99	R 7.78	R 13.89	27.76	R 16.32
2016	2.37	5.12	R 15.44	11.04	11.22	17.74	7.20	R 24.72	R 16.52	R 6.61	R 12.09	28.82	R 15.04
2017	2.31	5.53	18.00	15.00	12.10	19.92	9.66	22.22	18.74	R 7.08	13.48	29.46	16.31
2018	2.20	5.33	21.61	16.05	15.64	22.08	10.96	27.21	21.55	R 7.82	14.91	29.21	17.45
2019	2.25	4.99	20.51	14.10	14.37	21.05	11.16	25.95	20.35	R 7.41	13.98	29.18	16.65
2020	2.16	4.70	16.05	12.84	9.10	17.27	8.26	R 23.40	R 16.60	R 4.04	11.88	29.48	14.94
2021	2.27	6.45	22.11	19.74	14.48	24.40	12.36	R 28.51	R 23.18	R 4.37	R 16.34	30.57	18.85
2022	2.53	R 7.90	34.15	21.66	23.19	32.13	19.74	R 36.63	32.21	R 6.74	R 22.16	30.59	R 23.68
2023	2.74	6.74	28.57	18.34	19.27	28.49	17.70	35.96	28.03	6.44	19.18	30.73	21.31
	Expenditures in million dollars												
1970	0.7	23.8	24.5	16.5	4.7	154.6	0.2	10.8	211.4	0.4	236.3	70.6	306.9
1975	1.9	31.6	57.3	33.9	11.9	262.4	0.9	20.6	387.1	0.7	421.3	113.6	534.9
1980	5.0	67.2	180.4	52.3	46.0	516.3	2.4	35.1	832.4	1.8	906.4	224.7	1,131.1
1985	12.6	125.9	201.6	37.3	34.6	451.3	1.0	50.4	776.3	2.5	920.4	335.0	1,255.4
1990	6.9	110.4	235.7	117.4	36.8	443.9	1.0	42.1	876.9	2.4	1,001.3	388.1	1,389.3
1995	8.9	130.2	231.0	62.1	36.1	477.0	0.2	43.7	850.0	1.9	991.0	459.8	1,450.8
2000	16.1	172.7	337.7	100.1	42.3	676.4	3.2	82.7	1,242.4	2.2	1,433.4	523.5	1,956.9
2005	8.9	329.8	648.1	128.4	75.8	966.9	2.5	99.4	1,921.1	3.1	2,262.8	647.8	2,910.6
2006	10.6	315.2	738.4	140.5	82.4	1,091.7	1.4	130.7	2,185.1	3.3	2,514.1	673.9	3,188.0
2007	10.6	393.4	893.2	172.2	85.4	1,217.4	1.8	108.5	2,478.5	4.0	2,886.4	730.4	3,616.8
2008	8.9	556.7	1,091.8	228.5	93.7	1,327.9	3.4	123.6	2,868.9	5.3	3,439.7	783.5	4,223.3
2009	6.1	430.4	R 706.7	182.1	50.6	1,050.1	1.1	161.1	R 2,151.7	5.2	R 2,593.3	813.2	R 3,406.5
2010	7.1	432.3	907.6	147.7	71.1	1,230.1	0.2	R 201.5	R 2,558.1	6.5	R 3,004.0	888.3	R 3,892.4
2011	8.3	443.0	R 1,247.7	149.0	83.3	1,568.0	3.7	R 168.6	R 3,220.3	7.4	R 3,679.0	939.8	R 4,618.9
2012	9.4	367.4	R 1,282.6	108.7	109.5	1,649.1	(s)	R 243.6	R 3,393.5	7.0	R 3,777.3	996.3	R 4,773.6
2013	9.5	444.3	R 1,261.2	133.0	90.0	1,581.2	0.2	R 163.3	R 3,228.9	8.7	R 3,691.4	1,081.4	R 4,772.9
2014	10.1	530.1	R 1,217.8	162.5	122.8	1,543.0	0.4	R 169.1	R 3,215.6	R 8.6	R 3,764.3	1,118.2	R 4,882.5
2015	7.9	397.9	R 837.4	79.7	69.0	1,149.2	0.3	R 159.5	R 2,295.2	R 6.4	R 2,707.5	1,146.2	R 3,853.7
2016	8.2	360.6	R 678.3	77.1	53.2	1,036.1	0.4	R 121.3	R 1,966.5	R 4.6	R 2,339.9	1,192.8	R 3,532.6
2017	8.7	400.3	R 778.3	100.7	R 56.7	1,148.9	0.6	129.7	R 2,214.7	R 5.0	R 2,628.6	1,237.6	R 3,866.2
2018	6.7	419.5	R 995.1	122.3	R 58.8	1,272.8	0.6	151.8	R 2,601.3	R 8.7	R 3,036.2	1,281.5	R 4,317.8
2019	8.2	401.6	948.2	126.5	R 58.5	1,175.9	0.6	R 160.2	R 2,469.9	R 7.3	R 2,887.1	1,281.4	R 4,168.6
2020	7.0	357.2	R 844.3	94.4	R 34.2	933.9	0.5	166.9	2,074.4	R 6.1	R 2,444.8	1,277.0	R 3,721.8
2021	8.3	506.3	R 1,019.3	147.0	R 58.4	1,447.4	0.7	R 204.0	R 2,876.7	R 8.1	R 3,399.4	1,360.1	R 4,759.4
2022	10.7	R 623.4	R 1,588.5	158.3	R 98.0	1,870.4	1.1	R 257.6	R 3,973.9	R 14.1	R 4,622.0	1,405.5	R 6,027.5
2023	11.7	523.4	1,306.0	121.4	75.9	1,627.9	0.9	219.4	3,351.5	11.2	3,897.8	1,416.3	5,314.1

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. · Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2023, South Dakota

Year	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
	Prices in dollars per million Btu									
1970	1.75	1.04	1.28	1.75	1.57	1.58	0.61	1.29	7.76	2.39
1975	3.61	1.40	2.55	3.41	2.91	3.15	1.20	2.23	8.97	3.81
1980	3.48	3.14	6.92	6.85	7.83	6.89	3.06	4.81	14.52	7.82
1985	2.65	5.69	7.64	7.56	7.85	7.62	3.46	6.35	19.13	10.53
1990	2.62	5.06	5.52	7.20	8.20	6.44	3.56	5.75	20.37	10.11
1995	2.64	4.98	4.99	6.90	4.92	6.22	2.90	5.40	20.75	10.65
2000	2.69	7.31	8.95	9.73	9.09	9.54	4.41	8.13	21.74	12.93
2005	3.46	11.60	15.02	14.80	15.19	14.84	6.91	12.56	22.77	16.85
2006	3.31	11.08	17.21	16.43	19.32	16.61	7.96	12.81	22.96	17.28
2007	3.92	10.46	19.28	18.07	21.91	18.28	8.79	12.91	23.66	17.61
2008	—	11.29	23.61	21.75	23.03	22.05	10.83	15.13	24.25	18.85
2009	—	9.12	15.96	17.02	23.25	16.92	8.13	11.62	24.87	17.24
2010	—	8.73	19.27	18.56	24.70	18.66	9.60	11.74	26.30	18.31
2011	—	8.55	26.84	20.96	27.95	21.71	11.54	12.45	27.42	19.23
2012	—	8.24	26.76	17.95	29.32	19.14	12.85	11.54	29.51	20.28
2013	—	7.98	27.75	17.66	29.97	18.70	12.58	10.88	30.06	19.51
2014	—	8.90	26.82	24.10	32.25	24.37	12.27	12.76	30.68	20.78
2015	—	7.88	17.56	13.86	16.65	14.26	8.45	9.51	32.47	20.36
2016	—	7.20	15.24	11.76	13.31	R 12.09	7.22	8.52	33.60	20.38
2017	—	7.76	17.40	15.80	16.68	15.94	8.08	9.81	34.49	21.47
2018	—	7.18	18.97	16.56	25.70	16.86	8.94	9.69	33.98	20.47
2019	—	6.73	18.27	15.47	22.50	15.71	8.60	9.27	33.86	19.77
2020	—	6.61	15.83	14.45	14.61	14.57	7.11	8.57	34.42	R 20.75
2021	—	9.03	20.09	21.37	23.08	21.24	R 8.53	R 12.17	35.82	R 23.51
2022	—	10.21	29.56	23.77	40.09	24.45	R 13.20	13.59	35.44	R 23.65
2023	—	9.62	27.02	20.92	35.75	21.70	12.07	12.53	36.12	23.75
	Expenditures in million dollars									
1970	0.6	14.3	5.7	13.4	0.1	19.2	0.1	34.2	42.0	76.2
1975	0.4	16.7	8.5	25.8	(s)	34.4	0.1	51.7	63.3	115.0
1980	0.2	33.1	30.7	30.2	0.4	61.4	1.3	96.0	129.9	225.9
1985	0.2	65.3	34.4	20.2	1.6	56.1	1.8	123.4	180.7	304.1
1990	(s)	52.5	30.1	47.3	0.2	77.6	2.0	132.1	199.2	331.2
1995	(s)	63.7	14.6	36.2	0.1	50.9	1.4	116.0	231.4	347.4
2000	(s)	92.5	18.3	61.4	0.2	79.9	1.8	174.2	253.9	428.1
2005	(s)	142.6	20.0	69.9	0.3	90.1	2.5	235.3	308.7	544.0
2006	(s)	127.9	21.9	71.7	0.2	93.9	2.6	224.4	317.3	541.7
2007	(s)	130.1	19.7	88.4	0.2	108.3	3.2	241.5	344.0	585.5
2008	—	153.6	29.8	142.4	0.2	172.3	4.4	330.3	364.5	694.8
2009	—	124.3	11.6	102.6	0.2	114.3	4.3	242.9	382.8	625.7
2010	—	112.4	14.2	93.6	0.2	108.0	5.4	225.8	415.3	641.1
2011	—	111.3	18.8	101.4	0.1	120.4	6.3	238.0	434.7	672.7
2012	—	90.1	16.8	72.4	(s)	89.2	5.9	185.2	448.4	633.6
2013	—	114.6	14.8	82.3	0.1	97.1	7.5	219.2	494.9	714.1
2014	—	131.8	13.2	107.0	0.1	120.3	7.4	R 259.5	505.3	764.8
2015	—	97.5	R 8.4	54.5	(s)	R 62.9	5.4	165.8	506.5	672.3
2016	—	88.6	R 6.5	50.4	0.6	R 57.5	3.7	149.8	529.6	679.4
2017	—	99.4	6.6	64.0	(s)	70.6	3.9	173.9	547.6	721.4
2018	—	109.4	R 12.5	78.7	(s)	91.2	7.1	207.7	581.8	R 789.5
2019	—	108.0	9.7	90.8	(s)	100.5	5.9	214.4	584.3	R 798.7
2020	—	93.9	6.6	62.5	0.1	69.2	R 3.3	R 166.4	595.5	R 761.9
2021	—	121.4	10.3	92.1	0.2	102.6	R 3.6	R 227.5	616.5	R 844.0
2022	—	160.2	16.4	103.4	0.3	120.1	R 9.2	R 289.5	643.7	R 933.2
2023	—	139.9	15.1	85.1	0.5	100.7	6.5	247.0	646.5	893.5

[a] Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2023, South Dakota

Year	Primary energy										Electricity [j]	Total energy [g,h,i]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f,g]	Total [g,h,i]		
	Prices in dollars per million Btu											
1970	0.49	0.63	1.06	1.11	—	2.97	0.66	1.21	0.60	0.77	7.53	1.94
1975	1.04	0.99	2.34	2.20	—	4.70	2.21	2.50	1.20	1.32	8.82	2.70
1980	1.79	2.72	6.45	4.17	—	10.14	3.08	6.14	3.06	3.67	13.11	5.95
1985	2.45	4.56	6.03	8.12	7.85	9.26	4.44	6.93	3.46	5.03	17.53	9.09
1990	1.76	4.14	5.44	9.19	8.20	9.40	2.61	7.27	3.56	4.97	18.09	9.42
1995	1.29	3.93	4.26	7.63	4.92	9.16	2.36	5.55	2.90	4.24	18.40	9.53
2000	1.28	6.03	6.98	10.85	9.09	12.62	3.89	8.27	4.41	6.50	18.42	11.59
2005	1.92	10.27	13.59	16.01	15.19	18.13	6.53	14.61	6.91	10.96	18.18	14.81
2006	2.29	9.43	15.70	17.77	19.32	20.61	7.64	16.77	7.96	10.56	18.95	15.16
2007	2.29	8.79	17.25	19.20	21.91	22.92	8.43	17.97	8.79	10.58	19.37	15.18
2008	2.27	9.73	23.58	22.86	23.03	25.81	12.17	22.97	10.83	11.86	20.42	16.20
2009	2.69	7.40	13.87	18.29	23.25	19.16	7.83	16.61	8.13	9.06	20.93	14.97
2010	2.29	7.09	17.58	19.24	24.70	22.95	11.44	18.56	9.60	9.17	22.13	15.87
2011	—	6.94	23.88	22.50	27.95	29.19	15.33	23.46	11.54	9.81	22.73	16.63
2012	3.57	6.34	24.43	16.56	29.32	29.80	16.60	21.19	12.85	8.84	23.73	17.39
2013	—	6.39	24.07	17.64	29.97	29.07	16.37	21.37	12.58	R 8.36	24.95	R 17.05
2014	—	7.35	22.44	19.82	32.25	27.79	—	21.07	12.27	9.30	26.05	17.84
2015	—	5.90	13.27	11.09	16.65	19.95	—	14.59	8.45	7.32	26.83	18.07
2016	—	5.34	11.14	10.34	13.31	17.74	—	12.80	7.22	6.60	28.09	18.33
2017	—	5.94	13.56	14.21	16.68	19.92	—	15.66	8.08	7.62	28.53	18.86
2018	—	5.54	16.93	15.62	25.70	22.08	10.96	17.77	8.94	7.34	28.20	18.06
2019	—	5.08	15.47	11.90	22.50	21.05	11.16	15.71	8.60	6.59	28.11	R 17.25
2020	—	4.90	10.45	11.09	14.61	17.27	8.26	12.19	7.11	6.24	28.29	17.36
2021	—	7.24	16.65	18.15	23.08	24.40	12.36	19.38	R 8.53	9.10	29.75	19.97
2022	—	R 8.59	28.01	19.25	40.09	32.13	19.74	26.81	R 13.20	11.15	29.92	20.61
2023	—	7.56	21.29	14.93	35.75	28.49	17.70	21.91	12.07	9.65	29.77	20.08
	Expenditures in million dollars											
1970	0.1	7.2	1.9	1.6	—	0.8	0.1	4.3	(s)	11.7	24.1	35.8
1975	0.3	11.4	3.1	3.2	—	1.4	0.3	8.0	(s)	19.7	29.9	49.7
1980	0.4	23.1	13.7	3.5	—	3.5	0.4	21.1	(s)	44.7	51.0	95.7
1985	0.6	46.0	10.1	4.2	(s)	4.8	0.5	19.6	(s)	66.3	111.5	177.8
1990	0.1	35.9	7.7	11.6	(s)	3.8	0.4	23.5	0.2	59.8	111.8	171.5
1995	0.1	42.6	7.5	7.7	(s)	0.5	(s)	15.7	0.2	58.7	152.2	210.9
2000	(s)	61.2	7.9	13.1	(s)	0.7	1.7	23.5	0.3	85.1	179.6	264.6
2005	(s)	101.5	16.1	11.4	0.3	1.1	(s)	28.9	0.4	130.9	248.0	378.8
2006	(s)	90.1	14.4	13.9	0.2	1.3	0.1	29.8	0.4	120.4	262.2	382.5
2007	(s)	91.1	22.5	21.3	(s)	1.4	0.6	45.8	0.5	137.5	276.4	413.8
2008	0.5	110.9	22.7	30.0	(s)	1.6	0.7	55.0	0.7	167.1	295.5	462.5
2009	0.5	85.8	13.8	29.8	(s)	1.2	0.2	44.9	0.6	131.8	302.6	434.4
2010	0.4	78.6	19.8	26.5	(s)	1.4	0.2	47.8	0.7	127.6	329.8	457.4
2011	—	77.5	32.0	20.9	(s)	1.7	(s)	54.7	0.8	133.0	344.9	477.9
2012	0.1	60.2	25.1	13.7	(s)	1.8	(s)	40.6	0.8	101.7	368.9	470.7
2013	—	80.1	23.4	14.6	(s)	1.8	(s)	39.9	0.9	R 120.9	396.8	517.7
2014	—	94.2	18.6	24.2	(s)	1.6	—	R 44.5	0.9	139.5	406.4	R 545.9
2015	—	64.9	R 10.3	7.8	(s)	13.0	—	31.1	R 0.7	R 96.7	434.8	531.5
2016	—	58.9	7.7	9.0	(s)	11.8	—	28.5	R 0.6	88.0	450.3	R 538.2
2017	—	67.7	8.3	15.6	(s)	13.4	—	37.3	R 0.6	R 105.6	459.8	R 565.4
2018	—	74.3	11.1	14.4	(s)	14.8	0.6	R 40.9	R 0.9	R 116.1	471.8	R 587.8
2019	—	73.7	12.8	9.8	(s)	14.2	0.6	37.5	R 0.7	R 112.0	468.8	R 580.8
2020	—	62.6	13.5	9.3	(s)	11.6	0.5	34.9	0.7	98.2	453.3	551.5
2021	—	89.6	13.6	13.0	(s)	16.5	0.5	43.5	R 0.7	R 133.9	486.4	620.2
2022	—	121.8	24.4	12.2	(s)	24.3	0.8	61.7	1.4	184.9	503.8	688.8
2023	—	102.6	18.7	9.3	(s)	21.8	0.6	50.4	1.2	154.1	511.2	665.3

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[g] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[j] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: Expenditure totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2023, South Dakota

Year	Primary energy												Electricity [i]	Total energy [f,g,h]
	Coal			Natural gas [a]	Petroleum						Biomass	Total [f,g,h]		
	Coking coal	Steam coal	Total		Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e,f]			
	Prices in dollars per million Btu													
1970	—	0.49	0.49	0.32	0.73	1.17	2.97	0.70	0.82	1.56	1.49	1.34	4.72	1.42
1975	—	1.04	1.04	0.60	2.57	2.40	4.70	2.02	2.20	3.16	1.49	2.63	6.00	2.94
1980	—	1.79	1.79	2.35	5.65	4.54	10.14	3.34	3.88	6.48	1.49	5.51	9.70	6.01
1985	—	2.45	2.45	4.11	6.28	9.12	9.26	4.44	5.12	6.66	1.49	5.60	12.34	6.31
1990	—	1.76	1.76	3.73	5.81	10.24	9.40	2.61	3.33	6.55	1.67	5.60	13.65	6.65
1995	—	1.29	1.29	3.39	4.83	7.76	9.16	2.36	3.84	5.38	1.62	4.25	12.97	5.43
2000	—	1.28	1.28	4.36	7.89	11.54	12.62	3.89	4.90	7.23	1.23	5.26	13.17	6.31
2005	—	1.92	1.92	7.98	14.25	17.34	18.13	6.53	5.49	11.38	1.65	9.59	14.51	10.19
2006	—	2.29	2.29	9.29	16.28	19.22	20.61	7.64	8.01	13.94	1.75	11.56	14.18	11.90
2007	—	2.29	2.29	8.30	18.33	21.63	22.92	8.43	8.99	16.56	1.75	11.82	14.92	12.21
2008	—	2.57	2.57	8.97	24.53	25.86	25.81	12.17	9.59	19.56	1.75	12.76	15.55	13.09
2009	—	2.69	2.69	6.06	14.62	20.04	19.16	7.83	16.98	16.29	1.75	9.75	16.56	10.50
2010	—	2.51	2.51	5.89	18.50	19.65	22.95	—	R 18.63	R 18.96	1.75	R 10.07	17.78	R 10.92
2011	—	2.66	2.66	6.22	25.02	22.68	29.19	15.33	R 22.05	R 24.35	2.41	R 12.01	18.17	R 12.74
2012	—	2.76	2.76	5.28	25.22	16.27	29.80	—	R 23.63	R 24.42	2.41	R 11.57	19.26	R 12.50
2013	—	2.79	2.79	5.50	24.63	17.44	29.07	16.37	R 23.13	R 23.92	2.41	R 10.98	20.42	R 12.08
2014	—	2.85	2.85	6.61	22.98	19.79	27.79	15.65	R 24.39	R 23.46	2.99	R 11.04	20.47	R 12.25
2015	—	2.37	2.37	5.07	14.75	10.36	19.95	10.08	R 21.74	R 16.60	2.99	R 8.14	21.59	R 9.76
2016	—	2.37	2.37	4.53	11.91	9.55	17.74	7.20	R 18.50	R 13.57	2.99	R 6.81	22.19	R 8.69
2017	—	2.31	2.31	4.85	14.42	13.43	19.92	9.66	17.04	15.44	3.08	7.48	22.97	9.41
2018	—	2.20	2.20	4.71	17.50	14.82	22.08	—	21.97	18.71	3.17	8.26	22.77	10.03
2019	—	2.25	2.25	4.41	16.49	11.09	21.05	—	R 21.18	17.51	3.17	7.79	22.88	9.60
2020	—	2.16	2.16	4.09	12.16	10.27	17.27	—	R 19.25	R 14.05	2.29	7.22	22.83	8.98
2021	—	2.27	2.27	5.61	17.17	17.27	24.40	12.36	R 24.14	19.79	2.83	R 9.19	23.51	10.94
2022	—	2.53	2.53	6.96	28.10	18.31	32.13	19.74	R 31.19	R 28.21	R 2.75	R 12.50	23.56	R 13.90
2023	—	2.74	2.74	5.67	23.11	13.96	28.49	17.70	30.99	24.85	3.23	10.48	23.48	12.16
	Expenditures in million dollars													
1970	—	(s)	(s)	2.2	9.9	1.3	34.5	0.2	4.9	50.7	0.3	53.3	4.5	57.8
1975	—	1.2	1.2	3.5	24.5	4.5	40.1	0.7	12.9	82.6	0.5	87.8	20.4	108.2
1980	—	4.4	4.4	11.0	54.0	17.5	78.5	2.0	16.6	168.5	0.5	184.4	43.8	228.1
1985	—	11.8	11.8	14.6	63.5	12.1	33.8	0.4	28.8	138.6	0.6	165.8	42.9	208.7
1990	—	6.8	6.8	22.0	80.5	57.6	24.1	0.6	17.6	180.4	0.2	209.6	77.1	286.7
1995	—	8.7	8.7	23.9	61.8	17.5	25.4	0.2	21.5	126.4	0.2	159.3	76.2	235.5
2000	—	16.1	16.1	18.9	88.6	24.7	27.4	1.5	56.8	199.0	0.1	234.1	90.0	324.1
2005	—	8.8	8.8	85.6	149.5	46.0	74.5	2.5	66.7	339.2	0.2	433.8	91.1	524.9
2006	—	10.5	10.5	97.2	160.2	53.8	90.3	1.3	88.9	394.6	0.3	502.5	94.4	596.9
2007	—	10.5	10.5	172.2	223.4	60.9	65.6	1.2	62.8	413.9	0.3	597.0	110.0	707.0
2008	—	8.4	8.4	292.2	271.4	51.6	52.9	2.7	75.8	454.4	0.3	755.3	123.6	878.8
2009	—	5.6	5.6	220.3	164.3	47.5	41.0	0.9	119.5	373.3	0.3	599.4	127.7	727.2
2010	—	6.7	6.7	241.3	187.4	27.3	37.6	—	R 160.0	R 412.4	0.4	R 660.7	143.2	R 803.9
2011	—	8.3	8.3	254.2	327.6	26.0	48.3	3.7	R 121.4	R 527.1	0.3	R 789.8	160.3	R 950.1
2012	—	9.3	9.3	217.1	285.8	22.1	46.7	—	R 195.3	R 549.8	0.3	R 776.4	179.0	R 955.4
2013	—	9.5	9.5	249.7	314.0	35.3	46.5	0.1	R 117.3	R 513.3	0.3	R 772.8	189.7	R 962.5
2014	—	10.1	10.1	304.1	249.7	30.4	41.6	0.4	R 119.9	R 442.0	0.3	R 756.5	206.4	R 962.9
2015	—	7.9	7.9	235.5	163.7	16.6	28.6	0.3	R 109.9	R 319.1	0.3	R 562.8	204.9	R 767.7
2016	—	8.2	8.2	213.0	130.3	17.0	23.1	0.4	R 75.8	R 246.6	0.3	R 468.2	212.9	R 681.1
2017	—	8.7	8.7	233.2	149.4	20.8	26.1	0.6	87.5	284.4	0.4	526.7	230.3	757.0
2018	—	6.7	6.7	235.8	189.5	27.7	29.2	—	107.3	353.7	0.7	596.9	228.0	824.9
2019	—	8.2	8.2	219.9	175.4	23.9	26.6	—	116.7	R 342.6	0.7	R 571.5	228.3	R 799.8
2020	—	7.0	7.0	200.7	191.1	22.2	22.2	—	R 124.8	R 360.3	2.2	570.2	228.2	798.4
2021	—	8.3	8.3	295.3	183.4	41.7	31.8	0.2	R 156.7	R 413.7	3.8	R 721.1	257.2	R 978.3
2022	—	10.7	10.7	R 341.3	303.3	42.1	43.0	0.4	R 197.4	R 586.2	R 3.6	R 941.8	257.9	R 1,199.7
2023	—	11.7	11.7	281.0	243.4	26.7	40.9	0.3	172.4	483.7	3.6	780.0	258.6	1,038.5

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[i] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET6. Transportation sector energy price and expenditure estimates, selected years, 1970-2023, South Dakota

Year	Primary energy											Electricity [g]	Total energy [f]
			Petroleum										
	Coal	Natural gas[a]	Aviation gasoline	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Lubricants	Motor gasoline [e]	Residual fuel oil	Total	Total [f]		
	Prices in dollars per million Btu												
1970	0.49	—	2.17	1.32	1.11	0.75	5.08	2.97	0.65	2.56	2.56	—	2.56
1975	1.04	—	3.45	2.72	2.20	2.09	7.48	4.70	1.82	4.23	4.23	—	4.23
1980	—	—	9.02	7.12	4.17	6.47	14.36	10.14	—	9.21	9.21	—	9.21
1985	—	—	9.99	6.93	9.45	6.29	18.18	9.26	—	8.65	8.65	—	8.65
1990	—	—	9.32	8.57	11.11	6.21	20.61	9.40	1.82	9.11	9.11	—	9.11
1995	—	3.84	8.36	7.89	12.25	4.54	21.75	9.16	—	8.53	8.53	—	8.53
2000	—	4.46	10.87	11.19	15.91	7.29	23.20	12.62	—	11.99	11.99	—	11.99
2005	—	—	18.56	17.42	21.33	13.41	35.22	18.13	—	17.75	17.75	—	17.75
2006	—	10.86	22.31	19.65	22.97	15.38	43.88	20.61	—	20.18	20.18	—	20.18
2007	—	—	23.70	21.10	25.17	17.10	47.16	22.92	—	22.19	22.19	—	22.19
2008	—	—	27.23	27.30	29.12	25.08	55.12	25.81	—	26.57	26.57	—	26.57
2009	—	—	20.32	17.96	23.95	12.61	56.07	19.16	—	18.76	18.76	—	18.76
2010	—	11.20	25.19	21.93	26.27	16.27	58.80	22.95	—	22.52	22.52	—	22.52
2011	—	—	31.64	28.14	29.50	22.56	69.54	29.19	—	28.82	28.82	—	28.82
2012	—	—	33.04	28.87	22.33	24.41	72.11	29.80	—	29.48	29.48	—	29.48
2013	—	—	32.71	28.92	23.63	22.06	69.42	29.07	—	28.97	28.97	—	28.97
2014	—	R 9.91	33.16	28.20	26.26	22.01	69.44	27.79	—	27.88	27.88	—	27.88
2015	—	R 10.02	24.86	19.57	15.72	13.12	67.28	19.95	—	19.79	19.79	—	19.79
2016	—	R 9.84	21.62	16.76	14.78	11.22	65.78	17.74	—	17.41	17.41	—	17.41
2017	—	—	24.13	19.26	19.04	12.10	67.25	19.92	—	19.60	19.60	—	19.60
2018	—	—	27.04	23.06	19.66	15.64	72.37	22.08	—	22.49	22.49	—	22.49
2019	—	—	25.57	21.91	16.13	14.37	74.92	21.05	—	R 21.39	R 21.39	—	R 21.39
2020	—	—	22.34	18.00	15.09	9.10	75.34	17.27	—	17.55	17.55	—	17.55
2021	—	—	28.86	23.81	23.97	14.48	81.25	24.40	—	24.10	24.10	—	24.10
2022	—	—	36.02	36.28	23.86	23.19	97.37	32.13	—	R 33.62	R 33.62	—	R 33.62
2023	—	—	32.62	30.49	19.02	19.27	105.48	28.49	—	29.16	29.16	—	29.16
	Expenditures in million dollars												
1970	(s)	—	1.1	7.1	0.2	4.7	4.7	119.3	(s)	137.2	137.2	—	137.2
1975	(s)	—	1.3	21.1	0.5	11.9	6.3	220.8	(s)	262.1	262.1	—	262.1
1980	—	—	4.4	82.0	1.1	46.0	13.6	434.3	—	581.3	581.3	—	581.3
1985	—	—	4.4	93.7	0.9	34.6	15.6	412.8	—	562.0	564.9	—	564.9
1990	—	—	4.4	117.5	1.0	36.8	20.0	415.9	(s)	595.5	599.8	—	599.8
1995	—	(s)	2.0	147.2	0.7	36.1	20.1	451.0	—	657.0	657.0	—	657.0
2000	—	0.1	2.8	222.9	0.9	42.3	22.9	648.2	—	940.0	940.1	—	940.1
2005	—	—	2.9	462.4	1.1	75.8	29.3	891.3	—	1,462.8	1,462.8	—	1,462.8
2006	—	(s)	5.7	541.9	1.1	82.4	35.6	1,000.1	—	1,666.8	1,666.8	—	1,666.8
2007	—	—	6.0	627.6	1.6	85.4	39.5	1,150.4	—	1,910.5	1,910.5	—	1,910.5
2008	—	—	4.7	767.9	4.5	93.7	42.9	1,273.4	—	2,187.2	2,187.2	—	2,187.2
2009	—	—	2.2	R 517.0	2.2	50.6	39.2	1,008.0	—	R 1,619.2	R 1,619.2	—	R 1,619.2
2010	—	(s)	3.7	686.2	0.3	71.1	37.5	1,191.1	—	1,989.9	1,989.9	—	1,989.9
2011	—	—	5.1	R 869.2	0.7	83.3	42.0	1,518.0	—	R 2,518.2	R 2,518.2	—	R 2,518.2
2012	—	—	5.4	R 955.0	0.5	109.5	42.9	1,600.7	—	R 2,713.9	R 2,713.9	—	R 2,713.9
2013	—	—	4.8	R 908.9	0.8	90.0	41.1	1,532.9	—	R 2,578.5	R 2,578.5	—	R 2,578.5
2014	—	(s)	5.5	R 936.3	0.9	122.8	43.5	1,499.8	—	R 2,608.9	R 2,608.9	—	R 2,608.9
2015	—	(s)	3.2	R 655.0	0.8	69.0	46.4	1,107.7	—	R 1,882.2	R 1,882.2	—	R 1,882.2
2016	—	(s)	2.8	R 533.8	0.7	53.2	42.2	1,001.2	—	R 1,633.9	R 1,633.9	—	R 1,633.9
2017	—	—	2.8	R 614.0	0.3	R 56.7	39.3	1,109.4	—	R 1,822.4	R 1,822.4	—	R 1,822.4
2018	—	—	3.4	R 782.0	1.4	R 58.8	41.0	1,228.9	—	R 2,115.5	R 2,115.5	—	R 2,115.5
2019	—	—	3.1	750.3	2.0	R 58.5	R 40.4	1,135.2	—	R 1,989.3	R 1,989.3	—	R 1,989.3
2020	—	—	2.8	633.0	0.4	R 34.2	39.3	900.2	—	R 1,609.9	R 1,609.9	—	R 1,609.9
2021	—	—	3.5	R 812.0	0.3	R 58.4	R 43.7	1,399.1	—	R 2,316.9	R 2,316.9	—	R 2,316.9
2022	—	—	4.5	R 1,244.4	0.6	R 98.0	R 55.3	1,803.0	—	R 3,205.9	R 3,205.9	—	R 3,205.9
2023	—	—	3.9	1,028.9	0.3	75.9	42.6	1,565.2	—	2,716.7	2,716.7	—	2,716.7

[a] Transportation use of natural gas as vehicle fuel only.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET7. Electric power sector price and expenditure estimates, selected years, 1970-2023, South Dakota

Year	Coal	Natural gas [a]	Petroleum: Distillate fuel oil	Petroleum: Petroleum coke	Petroleum: Residual fuel oil	Petroleum: Total	Nuclear fuel	Biomass: Wood and waste [b]	Electricity imports [c]	Total energy [d]
	Prices in dollars per million Btu									
1970	0.35	0.33	0.97	—	0.70	0.74	—	—	—	0.41
1975	0.48	0.64	2.29	—	2.19	2.22	—	—	—	0.58
1980	0.76	1.97	6.50	—	3.07	6.03	—	—	—	0.83
1985	1.18	3.73	5.81	—	3.99	5.75	—	—	—	1.22
1990	1.15	2.57	5.65	—	—	5.65	—	—	—	1.18
1995	1.03	1.58	3.98	—	—	3.98	—	—	—	1.07
2000	0.99	4.25	6.57	—	—	6.57	—	—	16.78	1.39
2005	1.42	8.18	12.45	—	—	12.45	—	—	—	2.19
2006	1.51	8.65	15.46	—	—	15.46	—	—	—	2.18
2007	1.56	7.63	17.01	—	—	17.01	—	—	—	2.70
2008	1.74	7.28	19.79	—	—	19.79	—	0.59	—	2.20
2009	1.76	5.18	12.45	—	—	12.45	—	0.67	12.10	1.88
2010	1.95	5.46	18.10	—	—	18.10	—	—	—	2.14
2011	2.09	5.03	23.29	—	—	23.29	—	—	11.53	2.33
2012	2.19	3.45	20.69	—	—	20.69	—	—	—	2.34
2013	2.00	4.22	23.32	—	—	23.32	—	—	—	2.34
2014	2.09	4.79	22.70	—	—	22.70	—	—	—	2.49
2015	2.23	3.13	9.48	—	—	9.48	—	—	—	2.56
2016	2.25	2.47	8.54	—	—	8.54	—	—	—	2.32
2017	2.19	3.07	11.98	—	—	11.98	—	—	—	2.41
2018	1.87	2.82	17.17	—	—	17.17	—	—	—	2.19
2019	1.78	2.53	14.19	—	—	14.19	—	—	—	2.04
2020	1.87	2.41	8.65	—	—	8.65	—	—	—	2.08
2021	1.90	3.48	16.26	—	—	16.26	—	—	—	2.76
2022	2.08	R 4.52	23.11	—	—	23.11	—	—	—	R 3.16
2023	2.25	2.66	24.42	—	—	24.42	—	—	—	2.65
	Expenditures in million dollars									
1970	1.8	1.5	0.3	—	1.2	1.5	—	—	—	4.7
1975	11.0	2.1	0.9	—	2.0	2.9	—	—	—	16.0
1980	25.8	0.5	2.2	—	0.2	2.4	—	—	—	28.7
1985	34.8	0.1	1.3	—	(s)	1.3	—	—	—	36.2
1990	35.5	0.6	1.1	—	—	1.1	—	—	—	37.2
1995	31.4	1.5	1.1	—	—	1.1	—	—	—	34.0
2000	37.8	15.6	5.2	—	—	5.2	—	—	0.7	59.3
2005	46.1	29.4	3.8	—	—	3.8	—	—	—	79.3
2006	52.9	29.1	1.7	—	—	1.7	—	—	—	83.6
2007	44.6	32.6	13.7	—	—	13.7	—	—	—	91.0
2008	68.8	19.3	5.7	—	—	5.7	—	(s)	—	93.8
2009	61.9	4.7	1.7	—	—	1.7	—	(s)	(s)	68.3
2010	70.6	8.8	1.9	—	—	1.9	—	—	—	81.3
2011	60.8	8.0	2.8	—	—	2.8	—	—	(s)	71.6
2012	70.6	8.7	2.1	—	—	2.1	—	—	—	81.4
2013	61.7	17.7	2.8	—	—	2.8	—	—	—	82.3
2014	61.6	19.2	3.0	—	—	3.0	—	—	—	83.9
2015	36.3	20.3	2.1	—	—	2.1	—	—	—	58.7
2016	52.2	19.4	0.6	—	—	0.6	—	—	—	72.1
2017	49.1	18.6	1.0	—	—	1.0	—	—	—	68.7
2018	46.0	27.7	2.0	—	—	2.0	—	—	—	75.6
2019	49.5	25.0	2.7	—	—	2.7	—	—	—	77.2
2020	34.5	23.0	0.9	—	—	0.9	—	—	—	58.4
2021	34.2	42.0	7.9	—	—	7.9	—	—	—	84.1
2022	42.7	R 57.3	5.9	—	—	5.9	—	—	—	R 105.9
2023	40.5	50.3	7.7	—	—	7.7	—	—	—	98.4

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[c] Electricity imported from Canada and Mexico.
[d] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET1. Primary energy, electricity, and total energy price and expenditure estimates, selected years, 1970-2023, Tennessee

Year	Primary energy														Electric power sector [i,k,l]	Electricity [m]	Total energy [h,i,j]
	Coal			Natural gas [a]	Petroleum							Nuclear fuel	Biomass				
	Coking coal	Steam coal	Total		Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total		Wood and waste [g,h]	Total [h,i,j,k]			
	Prices in dollars per million Btu																
1970	0.38	0.26	0.26	0.54	1.11	1.86	0.73	2.84	0.36	1.21	2.11	—	1.43	1.03	0.23	2.85	1.73
1975	1.60	0.90	0.91	0.93	2.68	3.39	2.03	4.58	1.78	2.82	3.79	—	1.69	2.12	0.89	5.83	3.53
1980	1.81	1.54	1.54	2.69	6.80	6.41	6.39	9.89	3.36	6.17	8.45	0.38	2.48	4.36	1.57	10.67	7.25
1985	1.93	1.55	1.55	4.46	6.58	9.28	5.83	8.85	4.80	6.72	7.90	0.78	2.94	4.24	1.42	14.65	8.08
1990	1.83	1.35	1.35	3.98	7.88	11.13	5.58	9.40	3.14	5.66	8.43	0.84	1.93	4.21	1.24	15.58	8.52
1995	—	1.19	1.19	4.23	7.07	9.96	3.93	9.08	2.40	5.74	7.87	0.58	1.58	3.93	1.04	15.30	8.15
2000	—	1.13	1.13	5.87	9.51	13.26	6.55	11.39	3.97	6.56	10.01	0.43	1.72	4.78	0.96	16.41	10.00
2005	—	1.64	1.64	11.32	16.47	19.15	12.95	17.74	6.87	7.69	15.81	0.34	3.18	8.06	1.21	18.53	14.65
2006	—	1.79	1.79	11.63	18.49	21.26	14.54	19.91	9.77	10.00	17.85	0.41	3.20	9.05	1.37	20.49	16.38
2007	—	1.99	1.99	10.73	19.68	23.53	15.98	21.80	8.66	11.81	19.65	0.35	3.29	9.50	1.46	20.78	17.32
2008	—	2.35	2.35	12.01	26.68	28.15	22.60	25.80	11.68	14.52	24.52	0.47	3.76	11.53	1.67	24.03	20.63
2009	—	2.66	2.66	9.41	16.60	24.58	12.61	18.24	8.06	19.26	17.50	0.55	3.17	9.06	1.75	25.53	17.14
2010	—	2.75	2.75	8.13	20.44	25.52	16.27	21.89	12.59	R 24.46	R 21.19	0.64	3.23	10.25	1.99	25.30	18.66
2011	—	2.96	2.96	7.61	26.40	26.33	22.56	27.84	15.77	R 28.79	R 26.98	0.67	3.54	R 12.70	2.10	27.26	22.05
2012	—	2.85	2.85	6.01	27.06	20.84	22.97	28.43	13.35	R 30.69	R 27.58	0.73	3.32	R 12.83	1.96	27.23	R 22.27
2013	—	2.63	2.63	6.83	27.09	21.69	22.06	27.73	12.72	R 30.53	R 27.11	0.77	3.46	12.71	1.79	26.81	R 21.65
2014	—	2.64	2.64	7.47	26.23	27.52	20.59	26.51	15.53	R 29.52	R 26.09	0.72	R 3.93	R 12.37	1.92	27.59	R 21.41
2015	—	2.58	2.58	5.98	18.09	17.88	11.88	19.03	8.93	R 22.13	R 18.28	0.72	3.49	R 9.44	1.78	27.31	R 17.45
2016	—	2.37	2.37	R 5.21	15.40	15.89	9.72	16.92	7.39	R 18.82	R 15.94	0.71	3.30	R 8.10	1.65	27.11	R 16.18
2017	—	2.38	2.38	R 5.93	17.75	19.78	12.10	19.00	7.34	21.81	18.09	0.71	3.21	9.12	1.64	27.75	17.51
2018	—	2.31	2.31	5.72	21.35	20.97	15.64	21.06	11.22	25.30	20.74	0.68	R 3.10	10.11	1.53	28.15	18.71
2019	—	2.34	2.34	5.32	20.26	18.13	14.37	20.08	10.69	R 25.77	19.70	0.65	3.10	9.85	1.47	28.48	R 18.31
2020	—	2.16	2.16	R 4.91	16.48	15.62	9.10	16.47	8.46	R 23.09	15.92	0.62	R 2.40	8.04	1.24	27.98	16.16
2021	—	2.15	2.15	6.31	21.97	23.14	14.48	23.27	11.75	R 26.40	21.94	0.73	2.97	10.97	1.55	28.72	19.57
2022	—	3.62	3.62	R 8.45	33.67	25.39	25.89	30.64	18.80	R 35.77	R 30.99	0.59	R 3.81	R 15.44	R 2.40	32.00	R 25.76
2023	—	3.78	3.78	6.37	28.23	21.67	20.75	27.17	16.69	31.40	26.78	0.59	3.75	13.21	1.73	31.41	23.31
	Expenditures in million dollars																
1970	2.5	101.7	104.2	123.6	70.8	22.5	13.6	625.1	1.1	82.7	815.8	—	13.3	1,056.9	-80.9	504.6	1,480.6
1975	8.9	421.9	430.7	186.1	272.8	49.2	45.1	1,292.7	4.3	178.7	1,842.8	—	16.0	2,475.6	-376.4	1,357.0	3,456.2
1980	5.0	882.8	887.8	570.9	759.3	66.2	149.8	2,853.4	28.2	321.4	4,178.4	2.1	30.3	5,669.5	-804.8	2,656.5	7,521.3
1985	8.0	921.2	929.2	813.4	865.1	78.0	160.1	2,698.9	9.6	371.7	4,183.3	79.6	48.4	6,075.0	-845.5	3,409.7	8,639.2
1990	3.3	809.6	812.8	804.6	1,125.1	119.5	131.7	2,862.8	4.5	352.9	4,596.5	124.8	44.9	6,402.6	-802.7	4,054.4	9,654.2
1995	—	797.1	797.1	1,016.7	1,062.4	127.0	180.5	3,062.8	2.9	346.7	4,782.3	95.5	52.9	6,744.5	-768.0	4,224.2	10,200.7
2000	—	797.6	797.6	1,524.1	1,552.6	272.1	477.3	4,078.0	1.0	425.1	6,806.1	116.8	59.7	9,304.2	-857.7	5,312.7	13,759.2
2005	—	1,075.6	1,075.6	2,524.5	3,336.0	323.7	1,021.6	6,850.0	15.2	656.3	12,202.9	98.6	152.6	16,054.2	-1,057.6	6,507.4	21,504.0
2006	—	1,213.9	1,213.9	2,497.3	3,663.1	368.0	1,171.3	7,733.4	11.2	899.9	13,846.9	105.5	131.2	17,794.8	-1,184.9	7,193.8	23,803.8
2007	—	1,340.7	1,340.7	2,282.7	4,020.3	354.1	1,251.2	8,528.0	9.2	918.2	15,081.0	105.5	128.1	18,938.1	-1,319.9	7,493.1	25,111.3
2008	—	1,511.1	1,511.1	2,649.7	4,774.6	356.8	1,623.5	9,701.6	14.7	1,102.9	17,574.1	133.9	181.6	22,050.4	-1,427.8	8,455.4	29,078.0
2009	—	1,269.3	1,269.3	1,917.6	R 2,606.8	308.9	799.6	7,052.8	1.9	838.0	R 11,608.1	156.3	108.9	R 15,060.1	-1,223.4	8,184.8	R 22,021.5
2010	—	1,419.1	1,419.1	1,997.0	R 3,463.9	359.0	1,150.2	8,492.9	0.4	R 1,046.2	R 14,512.5	184.2	144.7	R 18,257.5	-1,507.5	8,851.1	R 25,601.1
2011	—	1,425.4	1,425.4	1,886.9	R 4,526.5	322.5	1,534.9	10,640.7	2.4	R 1,301.2	R 18,328.2	189.1	144.9	R 21,974.5	-1,520.4	9,277.6	R 29,731.8
2012	—	1,204.3	1,204.3	1,578.8	R 4,391.2	187.9	1,468.4	10,734.4	5.6	R 1,222.6	R 18,010.2	191.0	151.9	R 21,136.3	-1,346.9	8,860.3	R 28,649.7
2013	—	1,052.0	1,052.0	1,850.0	R 4,346.0	212.7	1,458.8	10,598.9	5.1	R 1,458.9	R 18,080.4	228.3	160.0	R 21,370.7	-1,201.7	8,817.5	R 28,986.5
2014	—	1,127.7	1,127.7	R 2,233.7	R 4,490.6	299.0	1,374.3	10,232.7	3.9	R 1,472.6	R 17,873.1	209.7	R 191.4	R 21,635.5	-1,352.5	9,378.6	R 29,661.6
2015	—	955.3	955.3	R 1,837.0	R 3,095.6	174.1	833.0	7,547.7	2.0	R 1,108.9	R 12,761.3	187.6	R 167.8	R 15,909.0	-1,151.1	9,224.2	R 23,982.2
2016	—	900.9	900.9	R 1,680.0	R 2,566.4	151.3	721.2	6,980.1	0.9	R 975.8	R 11,395.7	219.6	R 150.4	R 14,346.6	-1,199.8	9,263.0	R 22,409.8
2017	—	795.0	795.0	R 1,890.8	R 3,018.7	182.1	938.2	7,874.3	1.0	782.5	R 12,796.7	237.8	R 144.6	15,865.6	-1,160.2	9,149.1	R 23,854.6
2018	—	581.6	581.6	R 2,224.9	R 3,900.4	224.7	R 1,213.8	8,574.0	2.9	869.1	R 14,784.9	256.7	R 148.7	R 17,996.9	-1,071.6	9,827.7	R 26,752.9
2019	—	507.5	507.5	R 2,117.0	R 3,764.1	209.5	R 1,191.5	8,258.2	4.8	R 887.4	R 14,315.6	242.0	R 137.7	R 17,319.8	-999.5	9,646.1	R 25,966.4
2020	—	380.8	380.8	R 1,831.3	R 2,818.9	174.6	R 709.2	6,185.2	4.1	R 754.4	R 10,646.5	237.8	R 93.4	R 13,189.8	-788.1	9,016.9	R 21,418.5
2021	—	484.5	484.5	R 2,445.4	R 3,957.6	260.1	R 1,371.7	9,380.8	3.4	R 905.4	R 15,879.1	269.0	R 137.4	R 19,215.3	-1,031.7	9,708.1	R 27,891.8
2022	—	740.3	740.3	R 3,502.1	R 6,179.1	301.7	R 2,213.4	12,432.3	5.4	R 1,148.5	R 22,280.5	218.8	R 108.6	R 26,850.3	R -1,618.4	11,089.6	R 36,321.4
2023	—	764.2	764.2	2,353.7	5,053.4	218.4	1,762.4	11,139.4	4.0	996.8	19,174.5	233.3	110.0	22,635.7	-1,168.7	10,553.1	32,020.2

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[l] Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
[m] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET2. Total end-use energy price and expenditure estimates, selected years, 1970-2023, Tennessee

Year	Primary energy											Electricity [k]	Total energy [h,i,j]
			Petroleum							Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g,h]	Total [h,i,j]		
	Prices in dollars per million Btu												
1970	0.39	0.56	1.11	1.86	0.73	2.84	0.36	1.21	2.11	1.43	1.44	2.85	1.73
1975	1.23	0.93	2.72	3.39	2.03	4.58	1.78	2.82	3.81	1.69	2.81	5.83	3.53
1980	1.41	2.69	6.81	6.41	6.39	9.89	3.36	6.17	8.46	2.48	6.17	10.67	7.25
1985	1.62	4.46	6.58	9.28	5.83	8.85	4.80	6.72	7.90	2.94	6.26	14.65	8.08
1990	1.41	3.98	7.91	11.13	5.58	9.40	3.14	5.66	8.43	1.93	6.41	15.58	8.52
1995	1.42	4.25	7.12	9.96	3.93	9.08	2.40	5.74	7.88	1.58	6.13	15.30	8.15
2000	1.30	5.92	9.64	13.26	6.55	11.39	3.97	6.56	10.05	1.73	8.03	16.41	10.00
2005	2.44	11.37	16.52	19.15	12.95	17.74	6.87	7.69	15.82	3.18	13.42	18.53	14.65
2006	2.58	11.78	18.52	21.26	14.54	19.91	9.77	10.00	17.86	3.21	15.08	20.49	16.38
2007	2.62	10.85	19.71	23.53	15.98	21.80	8.66	11.81	19.66	3.29	16.17	20.78	17.32
2008	3.76	12.06	26.83	28.15	22.60	25.80	11.68	14.52	24.55	3.76	19.50	24.03	20.63
2009	3.59	9.50	16.66	24.58	12.61	18.24	8.06	19.26	17.51	3.18	14.35	25.53	17.14
2010	3.45	8.46	20.48	25.52	16.27	21.89	12.59	R 24.46	R 21.20	3.24	R 16.39	25.30	18.66
2011	3.83	7.97	26.47	26.33	22.56	27.84	15.77	R 28.79	R 27.00	3.55	R 20.30	27.26	22.05
2012	4.12	7.01	27.11	20.84	22.97	28.43	13.35	R 30.69	R 27.59	3.33	R 20.59	27.23	R 22.27
2013	3.83	7.33	27.13	21.69	22.06	27.73	12.72	R 30.53	R 27.12	3.49	19.96	26.81	R 21.65
2014	3.76	8.00	26.33	27.52	20.59	26.51	15.53	R 29.52	R 26.12	3.96	R 19.40	27.59	R 21.41
2015	3.64	R 6.95	18.14	17.88	11.88	19.03	8.93	R 22.13	R 18.30	R 3.50	R 14.24	27.31	R 17.45
2016	3.29	6.19	15.44	15.89	9.72	16.92	7.39	R 18.82	R 15.95	R 3.31	R 12.60	27.11	R 16.18
2017	3.13	R 6.83	17.80	19.78	12.10	19.00	7.34	21.81	18.11	R 3.22	14.24	27.75	17.51
2018	3.17	R 6.65	21.38	20.97	15.64	21.06	11.22	25.30	20.75	R 3.12	15.66	28.15	18.71
2019	3.48	R 6.38	20.31	18.13	14.37	20.08	10.69	R 25.77	19.72	R 3.11	15.11	28.48	R 18.31
2020	3.46	5.87	16.52	15.62	9.10	16.47	8.46	R 23.09	15.93	R 2.41	12.36	27.98	16.16
2021	3.49	7.22	22.01	23.14	14.48	23.27	11.75	R 26.40	21.95	2.98	16.72	28.72	19.57
2022	4.43	R 9.55	33.75	25.39	25.89	30.64	18.80	R 35.77	31.00	R 3.85	R 23.73	32.00	R 25.76
2023	5.19	7.78	28.28	21.67	20.75	27.17	16.69	31.40	26.79	3.76	20.69	31.41	23.31
	Expenditures in million dollars												
1970	27.6	119.2	70.8	22.5	13.6	625.1	1.1	82.7	815.8	13.3	976.0	504.6	1,480.6
1975	71.1	186.1	256.1	49.2	45.1	1,292.7	4.3	178.7	1,826.1	16.0	2,099.2	1,357.0	3,456.2
1980	102.9	568.3	744.2	66.2	149.8	2,853.4	28.2	321.4	4,163.3	30.3	4,864.8	2,656.5	7,521.3
1985	171.4	813.4	857.0	78.0	160.1	2,698.9	9.6	371.7	4,175.3	48.4	5,229.5	3,409.7	8,639.2
1990	144.0	803.0	1,117.5	119.5	131.7	2,862.8	4.5	352.9	4,589.0	44.9	5,599.9	4,054.4	9,654.2
1995	140.0	1,012.0	1,051.9	127.0	180.5	3,062.8	2.9	346.7	4,771.7	52.8	5,976.5	4,224.2	10,200.7
2000	117.5	1,502.6	1,513.5	272.1	477.3	4,078.0	1.0	425.1	6,767.0	59.4	8,446.5	5,312.7	13,759.2
2005	200.7	2,470.6	3,306.7	323.7	1,021.6	6,850.0	15.2	656.3	12,173.5	151.8	14,996.6	6,507.4	21,504.0
2006	204.6	2,449.1	3,641.9	368.0	1,171.3	7,733.4	11.2	899.9	13,825.7	130.5	16,609.9	7,193.8	23,803.8
2007	207.6	2,227.8	3,994.5	354.1	1,251.2	8,528.0	9.2	918.2	15,055.2	127.5	17,618.2	7,493.1	25,111.3
2008	296.8	2,605.2	4,740.4	356.8	1,623.5	9,701.6	14.7	1,102.9	17,539.9	180.7	20,622.6	8,455.4	29,078.0
2009	245.4	1,900.4	R 2,581.6	308.9	799.6	7,052.8	1.9	838.0	R 11,582.8	108.1	R 13,836.7	8,184.8	R 22,021.5
2010	247.3	1,885.3	R 3,424.8	359.0	1,150.2	8,492.9	0.4	R 1,046.2	R 14,473.4	144.0	R 16,749.9	8,851.1	R 25,601.1
2011	262.8	1,765.3	R 4,480.2	322.5	1,534.9	10,640.7	2.4	R 1,301.2	R 18,282.0	144.0	R 20,454.1	9,277.6	R 29,731.8
2012	270.0	1,396.2	R 4,353.7	187.9	1,468.4	10,734.4	5.6	R 1,222.6	R 17,972.7	150.5	R 19,789.4	8,860.3	R 28,649.7
2013	253.5	1,709.8	R 4,313.2	212.7	1,458.8	10,598.9	5.1	R 1,458.9	R 18,047.6	158.1	R 20,169.0	8,817.5	R 28,986.5
2014	233.2	R 2,024.5	R 4,454.0	299.0	1,374.3	10,232.7	3.9	R 1,472.6	R 17,836.4	R 188.9	R 20,283.0	9,378.6	R 29,661.6
2015	204.0	R 1,645.9	R 3,076.7	174.1	833.0	7,547.7	2.0	R 1,108.9	R 12,742.4	R 165.6	R 14,757.9	9,224.2	R 23,982.2
2016	166.1	R 1,451.1	R 2,552.2	151.3	721.2	6,980.1	0.9	R 975.8	R 11,381.5	R 148.1	R 13,146.8	9,263.0	R 22,409.8
2017	123.2	R 1,660.3	R 3,001.4	182.1	938.2	7,874.3	1.0	782.5	R 12,779.4	R 142.4	14,705.4	9,149.1	R 23,854.6
2018	116.5	R 1,898.1	R 3,879.3	224.7	R 1,213.8	8,574.0	2.9	869.1	R 14,763.9	R 146.7	R 16,925.2	9,827.7	R 26,752.9
2019	112.6	R 1,778.6	R 3,741.9	209.5	R 1,191.5	8,258.2	4.8	R 887.4	R 14,293.4	R 135.7	R 16,320.3	9,646.1	R 25,966.4
2020	100.8	R 1,575.2	R 2,806.5	174.6	R 709.2	6,185.2	4.1	R 754.4	R 10,634.0	R 91.7	R 12,401.7	9,016.9	R 21,418.5
2021	106.9	R 2,086.6	R 3,933.3	260.1	R 1,371.7	9,380.8	3.4	R 905.4	R 15,854.7	R 135.5	R 18,183.7	9,708.1	R 27,891.8
2022	122.0	R 2,779.9	R 6,122.2	301.7	R 2,213.4	12,432.3	5.4	R 1,148.5	R 22,223.6	R 106.3	R 25,231.9	11,089.6	R 36,321.4
2023	150.3	2,062.4	5,024.8	218.4	1,762.4	11,139.4	4.0	996.8	19,145.9	108.5	21,467.1	10,553.1	32,020.2

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. · Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2023, Tennessee

Year	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
	Prices in dollars per million Btu									
1970	0.74	0.89	1.24	2.12	1.62	1.80	0.85	1.12	3.34	2.09
1975	1.75	1.25	2.49	3.84	3.38	3.56	1.69	1.91	6.62	4.41
1980	1.97	2.85	6.89	7.65	9.09	7.95	4.31	3.78	10.43	7.74
1985	1.85	4.96	6.59	9.23	6.88	7.85	4.88	5.40	14.28	10.73
1990	1.77	4.94	6.59	11.90	7.93	10.26	3.53	5.51	16.68	12.19
1995	1.50	5.59	5.42	11.06	6.54	9.46	2.87	5.92	17.33	12.44
2000	1.65	7.22	9.12	14.31	8.58	13.19	4.37	8.14	18.54	14.18
2005	3.44	13.04	15.45	20.14	15.63	19.29	6.83	13.58	20.47	17.87
2006	3.60	14.20	17.70	22.91	19.87	22.17	7.87	14.97	22.72	19.93
2007	3.33	12.92	19.84	24.77	22.54	24.19	8.70	14.20	22.98	19.92
2008	—	13.69	24.29	29.71	23.69	28.90	10.72	15.14	26.12	22.01
2009	—	11.82	16.42	25.83	23.92	24.94	8.05	13.49	27.33	22.15
2010	—	10.22	19.83	27.13	25.41	26.51	9.50	12.41	27.06	21.60
2011	—	10.06	27.62	28.14	28.76	28.15	11.42	11.97	29.25	23.18
2012	—	9.80	27.53	24.89	30.16	25.13	12.71	11.10	29.60	23.80
2013	—	9.26	28.55	24.60	30.83	24.89	12.45	10.49	29.25	22.33
2014	—	9.85	27.60	31.06	33.18	31.02	12.14	11.71	30.26	23.08
2015	—	9.29	18.07	21.32	17.13	21.09	8.37	10.28	30.19	23.04
2016	—	8.87	15.64	19.42	13.66	19.07	7.15	9.71	30.52	23.66
2017	—	9.92	17.81	23.55	17.08	23.14	8.00	11.01	31.43	24.63
2018	—	9.08	19.43	24.21	26.31	24.13	8.85	10.27	31.38	23.63
2019	—	9.08	18.70	21.78	23.04	21.75	8.51	10.23	31.87	24.02
2020	—	8.60	16.21	19.80	14.96	R 19.51	7.04	9.46	31.53	R 23.75
2021	—	9.88	20.57	27.23	23.63	26.84	8.45	11.20	32.44	R 24.74
2022	—	R 11.96	30.27	30.08	41.05	30.35	13.07	R 13.54	35.89	27.75
2023	—	11.25	27.71	27.04	36.66	27.51	11.95	12.63	35.73	27.82
	Expenditures in million dollars									
1970	5.3	42.5	1.2	17.8	18.6	37.6	2.5	87.9	204.2	292.1
1975	4.0	56.8	3.4	38.5	25.3	67.2	5.1	133.1	520.6	653.7
1980	2.3	129.8	12.4	41.6	28.3	82.3	15.0	229.3	932.6	1,161.9
1985	1.7	202.0	10.3	40.4	28.8	79.5	30.1	313.3	1,244.6	1,557.9
1990	1.9	236.8	10.6	74.0	14.5	99.1	25.3	363.1	1,636.6	1,999.7
1995	0.7	346.0	8.2	85.3	13.8	107.3	16.6	470.6	1,831.5	2,302.1
2000	0.5	512.5	9.3	178.8	18.4	206.5	13.7	733.2	2,316.4	3,049.6
2005	0.2	894.7	9.1	195.3	25.2	229.6	30.7	1,155.3	2,872.4	4,027.7
2006	0.3	899.4	11.0	199.2	31.9	242.2	31.4	1,173.3	3,164.3	4,337.6
2007	0.6	815.1	14.6	217.9	26.0	258.6	38.3	1,112.5	3,362.6	4,475.1
2008	—	982.4	22.4	232.2	9.3	264.0	52.8	1,299.2	3,738.9	5,038.1
2009	—	803.2	15.6	252.8	13.9	282.4	24.1	1,109.8	3,755.4	4,865.2
2010	—	777.3	17.6	293.6	18.4	329.6	30.5	1,137.5	4,172.4	5,309.8
2011	—	686.0	7.2	214.5	8.3	230.0	35.6	951.6	4,298.0	5,249.6
2012	—	535.4	6.5	110.1	3.0	119.6	33.1	688.1	4,015.6	4,703.7
2013	—	672.5	6.5	132.3	4.0	R 142.8	42.3	857.6	4,083.1	4,940.7
2014	—	794.1	6.2	224.2	7.3	237.7	41.8	1,073.6	4,392.0	5,465.6
2015	—	647.5	5.3	137.0	2.8	145.1	25.1	817.8	4,291.9	R 5,109.7
2016	—	542.7	3.1	112.2	3.4	118.6	R 19.1	R 680.4	4,349.6	5,029.9
2017	—	584.2	R 4.1	128.2	2.9	R 135.2	17.0	736.3	4,213.5	4,949.8
2018	—	707.6	3.8	160.6	4.5	168.8	R 24.9	R 901.3	4,751.7	5,652.9
2019	—	653.6	3.0	159.1	4.9	167.0	R 25.1	R 845.6	4,628.9	R 5,474.5
2020	—	588.5	2.7	116.0	3.8	122.4	R 12.2	R 723.1	4,420.3	R 5,143.4
2021	—	737.9	5.8	166.6	4.4	176.9	R 15.1	R 930.0	4,741.6	R 5,671.6
2022	—	R 907.3	8.9	201.7	7.1	217.7	R 29.5	R 1,154.5	5,339.5	R 6,494.0
2023	—	735.8	7.4	151.7	10.4	169.5	22.9	928.3	5,041.4	5,969.6

[a] Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2023, Tennessee

Year	Primary energy										Electricity [j]	Total energy [g,h,i]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f,g]	Total [g,h,i]		
	Prices in dollars per million Btu											
1970	0.35	0.70	1.06	1.25	0.78	2.84	0.42	1.45	0.85	0.78	4.97	1.92
1975	1.17	1.09	2.29	2.32	2.32	4.58	1.77	2.83	1.69	1.38	8.27	3.46
1980	1.39	2.95	6.49	4.75	6.16	9.89	3.44	6.95	4.31	3.55	13.29	7.91
1985	1.60	4.75	6.12	8.57	6.88	8.85	4.80	6.44	4.88	5.16	17.05	8.97
1990	1.40	4.63	5.52	9.32	7.93	9.40	3.16	7.30	2.45	4.74	18.02	10.42
1995	1.42	5.02	4.34	7.78	6.54	9.08	2.40	5.57	1.83	4.82	19.96	8.56
2000	1.30	6.59	7.12	11.06	8.58	11.39	—	8.50	2.06	6.57	18.69	13.45
2005	2.44	12.04	13.98	16.47	15.63	17.74	—	14.86	6.83	12.18	21.01	17.54
2006	2.58	12.58	16.15	18.29	19.87	19.91	—	17.21	7.87	12.89	23.45	19.39
2007	2.62	11.55	17.75	19.75	22.54	21.80	8.67	18.37	8.70	12.13	23.71	19.30
2008	4.46	12.54	24.26	23.52	23.69	25.80	12.52	24.04	10.72	13.39	27.08	21.66
2009	5.39	10.38	14.27	18.81	23.92	18.24	8.06	15.19	8.05	10.84	28.16	21.16
2010	4.40	9.18	18.08	19.79	25.41	21.89	—	18.57	9.50	10.23	28.30	20.94
2011	5.04	8.91	24.56	23.15	28.76	27.84	—	24.27	11.42	10.94	30.09	22.58
2012	5.37	8.23	25.13	17.04	30.16	28.43	—	23.64	12.71	10.32	30.21	22.95
2013	5.11	8.25	24.76	18.15	30.83	27.73	16.84	22.97	12.45	9.59	29.30	22.31
2014	4.96	9.05	23.09	20.39	33.18	26.51	—	22.63	12.14	10.36	30.42	22.94
2015	4.84	8.17	13.65	11.41	17.13	19.03	—	16.19	8.37	9.69	29.77	22.44
2016	—	7.51	11.43	10.61	13.66	16.92	—	R 14.10	7.15	R 8.86	29.87	R 22.49
2017	—	8.41	13.88	14.55	17.08	19.00	—	R 16.44	8.00	R 10.16	30.92	23.38
2018	—	8.07	17.33	15.99	26.31	21.06	—	18.90	8.85	10.18	30.81	23.02
2019	—	7.77	15.84	12.19	23.04	20.08	—	17.31	8.51	R 9.71	31.22	23.09
2020	—	7.41	10.70	11.36	14.96	16.47	—	R 13.71	7.04	R 8.71	30.95	22.54
2021	—	8.75	17.05	18.58	23.63	23.27	—	20.28	8.45	11.03	31.86	23.71
2022	—	11.08	28.68	19.71	41.05	30.64	—	28.13	13.07	14.35	35.23	27.06
2023	—	9.97	21.83	15.31	36.66	27.17	—	23.54	11.95	12.74	34.57	26.52
	Expenditures in million dollars											
1970	2.0	30.4	2.6	2.6	1.8	5.9	(s)	12.8	(s)	45.3	107.8	153.1
1975	6.3	47.9	7.9	5.7	3.4	10.1	(s)	27.1	0.1	81.3	210.0	291.3
1980	6.1	132.1	38.4	6.4	3.6	24.2	1.0	73.6	0.4	212.2	644.5	856.8
1985	5.1	213.2	114.2	9.3	6.5	15.7	2.9	148.5	0.7	367.7	573.3	941.0
1990	6.0	208.9	23.8	14.3	3.1	22.9	0.7	64.7	3.5	283.2	803.8	1,087.0
1995	4.5	265.3	18.7	14.8	3.0	2.3	0.2	39.0	3.2	312.1	424.5	736.6
2000	3.4	364.5	44.6	34.1	5.1	2.9	—	86.8	3.1	457.7	1,710.1	2,167.8
2005	1.8	676.7	63.4	30.9	3.6	5.0	—	102.8	4.9	786.2	2,089.7	2,875.9
2006	2.4	673.1	61.0	47.2	3.1	5.6	—	116.9	5.3	797.7	2,323.1	3,120.8
2007	4.1	612.2	97.8	34.1	3.1	6.2	0.4	141.6	6.2	764.0	2,426.0	3,190.0
2008	10.5	703.8	101.8	49.2	1.2	7.3	0.4	159.8	8.0	882.1	2,717.9	3,600.0
2009	12.6	553.5	100.2	27.0	1.3	5.1	0.2	133.8	3.4	703.3	2,694.7	3,398.0
2010	9.8	527.7	124.2	33.4	1.3	6.1	—	164.9	4.0	706.4	2,838.7	3,545.1
2011	8.9	471.5	146.0	60.0	1.2	7.7	—	215.0	4.6	700.0	2,980.0	3,680.0
2012	8.6	375.6	147.2	26.3	0.5	7.9	—	181.9	4.5	570.6	2,901.7	3,472.2
2013	8.4	453.2	R 95.9	31.7	0.7	8.0	0.2	R 136.4	5.1	R 603.0	3,356.8	R 3,959.8
2014	7.6	534.1	R 115.8	33.5	1.1	7.2	—	R 157.6	R 5.0	704.3	3,476.8	4,181.1
2015	0.7	448.8	R 65.2	17.1	0.2	129.0	—	R 211.6	R 3.4	R 664.5	3,553.0	R 4,217.5
2016	—	388.5	R 51.8	21.4	0.4	115.4	—	R 189.0	R 2.9	R 580.5	3,612.2	R 4,192.7
2017	—	428.6	R 75.6	28.3	0.3	131.2	—	R 235.5	R 2.7	R 666.8	3,558.7	R 4,225.5
2018	—	493.4	R 94.2	37.6	0.5	148.1	—	R 280.4	R 3.2	R 777.1	3,881.9	R 4,658.9
2019	—	461.0	R 92.5	26.6	0.4	142.7	—	R 262.2	R 3.1	R 726.3	3,850.7	R 4,577.0
2020	—	406.3	R 47.0	30.9	0.4	116.9	—	R 195.2	R 2.4	R 604.0	3,535.4	R 4,139.4
2021	—	533.5	R 86.5	54.2	0.5	166.0	—	R 307.2	R 2.9	R 843.6	3,789.8	R 4,633.5
2022	—	R 697.4	R 149.8	49.9	0.7	221.5	—	R 421.9	R 4.5	R 1,123.8	4,293.1	R 5,416.9
2023	—	552.4	102.5	34.6	1.1	196.7	—	334.8	4.1	891.3	4,139.6	5,030.9

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[g] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[j] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: Expenditure totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2023, Tennessee

Year	Primary energy												Electricity [i]	Total energy [f,g,h]
	Coal			Natural gas [a]	Petroleum						Biomass	Total [f,g,h]		
	Coking coal	Steam coal	Total		Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e,f]			
	Prices in dollars per million Btu													
1970	0.38	0.35	0.35	0.38	0.72	1.31	2.84	0.36	0.90	0.87	1.69	0.55	2.05	0.95
1975	1.60	1.17	1.22	0.73	2.11	2.52	4.58	1.89	2.28	2.24	1.69	1.34	4.87	2.54
1980	1.81	1.39	1.41	2.54	5.50	5.17	9.89	3.36	5.08	5.05	1.73	2.96	9.71	4.90
1985	1.93	1.60	1.61	4.11	6.37	9.62	8.85	4.80	5.71	6.15	1.73	3.66	14.22	6.65
1990	1.83	1.40	1.41	3.29	5.90	10.38	9.40	3.16	4.37	5.09	1.10	3.07	13.74	6.06
1995	—	1.42	1.42	3.24	4.92	7.91	9.08	2.40	4.37	4.86	1.28	2.96	13.19	6.17
2000	—	1.30	1.30	4.90	8.04	11.76	11.39	3.97	5.17	6.30	1.44	3.95	11.98	5.95
2005	—	2.44	2.44	9.72	14.66	17.84	17.74	6.92	6.18	9.00	2.74	6.79	13.87	8.57
2006	—	2.58	2.58	9.63	16.75	19.78	19.91	9.86	8.31	10.96	2.61	7.62	15.14	9.57
2007	—	2.62	2.62	8.98	18.86	22.25	21.80	8.67	9.76	13.03	2.47	8.08	15.22	9.98
2008	—	3.74	3.74	10.42	25.24	26.60	25.80	12.52	12.45	15.90	2.83	9.47	18.44	11.81
2009	—	3.53	3.53	6.90	15.04	20.61	18.24	8.06	16.32	16.38	2.63	7.72	19.83	11.03
2010	—	3.42	3.42	6.49	19.03	20.22	21.89	12.59	R 21.12	R 20.69	2.68	R 8.12	19.29	R 11.16
2011	—	3.79	3.79	6.06	25.74	23.34	27.84	15.77	R 25.25	R 25.45	2.80	R 9.32	21.19	R 12.46
2012	—	4.09	4.09	4.91	25.95	16.74	28.43	17.07	R 27.07	R 26.37	2.68	R 8.90	20.74	R 12.03
2013	—	3.80	3.80	5.52	25.34	17.94	27.73	16.84	R 27.60	R 26.80	2.67	R 9.52	18.44	R 11.43
2014	—	3.73	3.73	6.14	23.64	20.36	26.51	16.10	R 26.46	R 25.69	3.24	R 9.58	18.77	R 11.62
2015	—	3.64	3.64	4.89	15.18	10.66	19.03	10.37	R 18.38	R 17.67	3.13	R 7.33	18.09	R 9.66
2016	—	3.29	3.29	4.27	12.22	9.80	16.92	7.39	R 15.28	R 14.71	3.03	R 6.42	16.65	R 8.65
2017	—	3.13	3.13	4.85	14.76	13.75	19.00	9.89	17.05	16.60	2.94	6.60	17.10	9.04
2018	—	3.17	3.17	4.75	17.92	15.18	21.06	11.22	20.27	19.57	2.70	6.95	16.66	8.94
2019	—	3.48	3.48	4.49	16.89	11.36	20.08	11.43	R 20.71	R 19.31	2.67	R 6.88	16.64	R 8.89
2020	—	3.46	3.46	3.99	12.45	10.52	16.47	8.46	R 18.10	R 16.08	2.14	6.01	15.63	8.00
2021	—	3.49	3.49	5.31	17.58	17.68	23.27	12.65	R 20.97	R 20.26	2.71	7.44	16.14	9.25
2022	—	4.43	4.43	7.69	28.77	18.75	30.64	20.22	R 28.71	R 28.42	R 2.89	R 10.90	19.18	R 12.81
2023	—	5.19	5.19	5.31	23.69	14.32	27.17	18.15	25.25	24.62	3.06	8.88	18.25	11.07
	Expenditures in million dollars													
1970	2.5	17.8	20.3	46.3	13.3	1.7	3.5	1.1	45.9	65.5	10.8	142.9	192.6	335.5
1975	8.9	52.0	60.8	81.4	57.6	3.9	2.8	2.3	112.2	178.8	10.8	331.8	626.3	958.2
1980	5.0	89.4	94.4	306.4	136.3	17.1	1.9	27.0	217.5	399.9	15.0	815.6	1,079.4	1,895.0
1985	8.0	156.7	164.6	398.1	133.9	22.2	29.9	6.6	260.9	453.5	17.6	1,034.1	1,591.8	2,625.9
1990	3.3	132.8	136.1	357.4	116.7	25.9	28.8	3.8	240.6	415.8	16.1	925.6	1,613.9	2,539.5
1995	—	134.7	134.7	400.2	105.1	20.7	40.9	2.6	226.1	395.4	33.0	963.3	1,968.1	2,931.4
2000	—	113.6	113.6	625.2	114.2	54.8	33.2	1.0	295.6	498.7	42.6	1,280.2	1,286.1	2,566.2
2005	—	198.6	198.6	898.9	344.8	80.0	111.6	12.8	490.9	1,040.0	116.2	2,253.8	1,545.2	3,799.0
2006	—	201.9	201.9	876.4	333.4	101.8	141.4	10.5	700.6	1,287.7	93.9	2,459.8	1,706.3	4,166.1
2007	—	203.0	203.0	800.4	388.9	86.8	209.2	8.5	705.5	1,398.8	83.0	2,485.2	1,704.4	4,189.6
2008	—	286.3	286.3	918.9	420.9	48.3	197.1	11.9	890.2	1,568.4	119.9	2,893.5	1,998.3	4,891.8
2009	—	232.8	232.8	543.4	146.9	17.3	136.8	1.7	639.9	942.6	80.6	1,799.4	1,734.5	3,533.9
2010	—	237.5	237.5	580.2	230.3	29.7	90.7	0.4	R 792.9	R 1,143.9	109.5	R 2,071.0	1,839.9	R 3,910.9
2011	—	253.9	253.9	607.6	283.1	45.1	120.1	2.4	R 1,030.4	R 1,481.3	103.8	R 2,446.6	1,999.4	R 4,446.0
2012	—	261.4	261.4	485.1	299.9	49.5	123.0	1.6	R 980.8	R 1,454.9	112.9	R 2,314.3	1,942.9	R 4,257.2
2013	—	245.1	245.1	583.4	278.2	45.9	129.2	1.1	R 1,214.9	R 1,669.3	110.7	R 2,608.5	1,377.4	R 3,985.9
2014	—	225.6	225.6	694.2	290.2	38.7	82.0	3.5	R 1,212.7	R 1,627.2	142.2	R 2,689.2	1,509.7	R 4,198.9
2015	—	203.3	203.3	547.2	166.1	17.8	108.7	1.5	R 840.9	R 1,134.9	137.1	R 2,022.6	1,379.3	R 3,402.0
2016	—	166.1	166.1	517.4	152.0	15.2	98.4	0.9	R 727.1	R 993.6	126.1	R 1,803.2	1,301.2	R 3,104.4
2017	—	123.2	123.2	645.1	187.2	23.2	111.2	0.4	544.8	866.8	122.7	1,757.9	1,377.0	3,134.8
2018	—	116.5	116.5	694.9	228.2	25.5	128.5	2.9	618.2	1,003.4	118.6	1,933.4	1,194.1	3,127.6
2019	—	112.6	112.6	661.1	198.3	22.7	121.1	4.2	R 633.1	R 979.4	107.5	R 1,860.6	1,166.5	R 3,027.1
2020	—	100.8	100.8	577.3	149.1	26.6	100.4	4.1	R 527.2	R 807.4	77.1	R 1,562.6	1,061.2	R 2,623.7
2021	—	106.9	106.9	811.9	211.3	38.2	137.1	2.9	R 641.0	R 1,030.5	117.4	R 2,066.7	1,176.7	R 3,243.4
2022	—	122.0	122.0	R 1,160.1	349.4	47.6	190.9	4.7	R 809.1	R 1,401.8	R 72.3	R 2,756.2	1,456.9	R 4,213.2
2023	—	150.3	150.3	756.7	280.9	30.2	170.3	3.4	722.2	1,207.1	81.4	2,195.5	1,372.1	3,567.6

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[i] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET6. Transportation sector energy price and expenditure estimates, selected years, 1970-2023, Tennessee

Year	Primary energy											Electricity [g]	Total energy [f]
			Petroleum										
	Coal	Natural gas[a]	Aviation gasoline	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Lubricants	Motor gasoline [e]	Residual fuel oil	Total	Total [f]		
	Prices in dollars per million Btu												
1970	0.35	—	2.17	1.28	1.25	0.73	5.08	2.84	0.42	2.49	2.49	4.97	2.49
1975	1.17	—	3.45	3.02	2.32	2.03	7.48	4.58	1.67	4.19	4.19	8.27	4.19
1980	—	—	9.02	7.25	4.75	6.39	14.36	9.89	3.45	9.20	9.20	13.29	9.20
1985	—	—	9.99	6.73	9.55	5.83	18.18	8.85	—	8.29	8.30	17.05	8.30
1990	—	4.15	9.32	8.36	10.89	5.58	20.61	9.40	2.22	9.03	9.03	17.20	9.03
1995	—	4.93	8.36	7.63	12.03	3.93	21.75	9.08	1.91	8.37	8.37	12.50	8.37
2000	—	5.85	10.87	9.93	15.25	6.55	23.20	11.39	—	10.51	10.51	13.64	10.51
2005	—	12.74	18.56	16.84	20.68	12.95	35.22	17.74	6.65	17.00	17.00	33.58	17.00
2006	—	14.15	22.31	18.78	22.32	14.54	43.88	19.91	8.49	19.06	19.06	32.77	19.06
2007	—	13.39	23.70	19.87	24.52	15.98	47.16	21.80	8.15	20.71	20.71	30.21	20.71
2008	—	11.37	27.23	27.08	28.46	22.60	55.12	25.80	8.73	25.91	25.91	29.80	25.91
2009	—	8.50	20.32	16.89	23.29	12.61	56.07	18.24	—	17.51	17.51	31.34	17.51
2010	—	7.97	25.19	20.72	25.61	16.27	58.80	21.89	—	21.18	21.18	32.51	21.18
2011	—	12.14	31.64	26.59	28.84	22.56	69.54	27.84	—	27.18	27.18	35.38	27.18
2012	—	8.06	33.04	27.28	21.67	22.97	72.11	28.43	12.25	27.78	27.78	33.07	27.78
2013	—	[R] 7.92	32.71	27.33	22.98	22.06	69.42	27.73	11.77	27.22	27.22	34.24	27.22
2014	—	[R] 8.83	33.16	26.65	25.60	20.59	69.44	26.51	11.37	26.14	26.13	25.12	26.13
2015	—	[R] 8.88	24.86	18.49	15.06	11.88	67.28	19.03	6.12	18.38	18.37	—	18.37
2016	—	[R] 8.01	21.62	15.83	14.13	9.72	65.78	16.92	—	16.09	16.09	—	16.09
2017	—	[R] 8.30	24.13	18.20	18.55	12.10	67.25	19.00	6.28	18.22	[R] 18.22	—	[R] 18.22
2018	—	[R] 8.47	27.04	21.79	19.44	15.64	72.37	21.06	—	20.85	20.85	—	20.85
2019	—	[R] 8.37	25.57	20.71	16.19	14.37	74.92	20.08	7.40	19.78	19.77	—	19.77
2020	—	[R] 7.70	22.34	17.01	15.31	9.10	75.34	16.47	—	15.93	15.93	—	15.93
2021	—	[R] 8.20	28.86	22.50	24.19	14.48	81.25	23.27	8.15	22.07	22.06	—	22.06
2022	—	[R] 9.93	36.02	34.28	24.08	25.89	97.37	30.64	13.28	31.27	[R] 31.22	—	[R] 31.22
2023	—	10.04	32.62	28.81	19.24	20.75	105.48	27.17	11.08	27.02	26.97	—	26.97
	Expenditures in million dollars												
1970	(s)	—	1.3	53.6	0.5	13.6	15.1	615.7	(s)	699.8	699.9	(s)	699.9
1975	(s)	—	1.2	187.1	1.1	45.1	36.6	1,279.8	2.0	1,553.0	1,553.0	(s)	1,553.0
1980	—	—	13.2	557.1	1.1	149.8	58.9	2,827.3	0.1	3,607.6	3,607.6	(s)	3,607.6
1985	—	—	7.8	598.6	6.1	160.1	67.8	2,653.3	—	3,493.7	3,514.4	(s)	3,514.4
1990	—	(s)	8.2	966.5	5.3	131.7	86.5	2,811.1	0.1	4,009.3	4,028.0	(s)	4,028.0
1995	—	0.5	16.8	919.9	6.2	180.5	87.1	3,019.6	(s)	4,230.0	4,230.5	0.1	4,230.6
2000	—	0.4	6.8	1,345.4	4.4	477.3	99.2	4,041.9	—	5,975.0	5,975.4	0.1	5,975.5
2005	—	0.3	9.6	2,889.3	17.5	1,021.6	127.1	6,733.4	2.4	10,801.0	10,801.3	0.2	10,801.4
2006	—	0.2	10.0	3,236.6	19.8	1,171.3	154.3	7,586.4	0.7	12,178.9	12,179.2	0.2	12,179.3
2007	—	0.2	12.4	3,493.3	15.3	1,251.2	171.2	8,312.6	0.2	13,256.2	13,256.4	0.2	13,256.6
2008	—	0.2	16.4	4,195.3	27.2	1,623.5	185.8	9,497.2	2.5	15,547.7	15,547.9	0.2	15,548.1
2009	—	0.1	13.0	[R] 2,318.9	11.8	799.6	169.9	6,910.9	—	[R] 10,224.0	[R] 10,224.1	0.2	[R] 10,224.3
2010	—	0.1	21.3	[R] 3,052.8	2.2	1,150.2	212.3	8,396.1	—	[R] 12,835.0	[R] 12,835.1	0.2	[R] 12,835.3
2011	—	0.2	18.2	[R] 4,043.9	2.8	1,534.9	243.1	10,512.9	—	[R] 16,355.8	[R] 16,356.0	0.2	[R] 16,356.2
2012	—	0.1	11.4	[R] 3,900.0	2.1	1,468.4	226.9	10,603.5	4.0	[R] 16,216.2	[R] 16,216.4	0.2	[R] 16,216.6
2013	—	[R] 0.7	10.3	[R] 3,932.6	2.8	1,458.8	229.0	10,461.7	3.8	[R] 16,099.2	[R] 16,099.9	0.2	[R] 16,100.1
2014	—	[R] 2.0	10.4	[R] 4,041.7	2.7	1,374.3	241.0	10,143.5	0.3	[R] 15,813.9	[R] 15,815.9	0.1	[R] 15,816.0
2015	—	[R] 2.3	8.8	[R] 2,840.0	2.2	833.0	256.2	7,310.0	0.5	[R] 11,250.7	[R] 11,253.1	—	[R] 11,253.1
2016	—	[R] 2.5	8.0	[R] 2,345.3	2.6	721.2	237.0	6,766.2	—	[R] 10,080.3	[R] 10,082.8	—	[R] 10,082.8
2017	—	[R] 2.5	9.3	[R] 2,734.5	2.4	938.2	225.1	7,631.9	0.6	[R] 11,542.0	[R] 11,544.4	—	[R] 11,544.4
2018	—	[R] 2.2	11.3	[R] 3,553.1	1.1	[R] 1,213.8	234.6	8,297.4	—	[R] 13,311.3	[R] 13,313.5	—	[R] 13,313.5
2019	—	[R] 2.9	12.1	3,448.2	1.0	[R] 1,191.5	[R] 236.9	7,994.5	0.6	[R] 12,884.9	[R] 12,887.8	—	[R] 12,887.8
2020	—	[R] 3.0	9.7	[R] 2,607.8	1.1	[R] 709.2	[R] 213.3	5,967.9	—	[R] 9,509.0	[R] 9,512.0	—	[R] 9,512.0
2021	—	[R] 3.2	14.5	[R] 3,629.6	1.1	[R] 1,371.7	[R] 245.0	9,077.7	0.5	[R] 14,340.1	[R] 14,343.3	—	[R] 14,343.3
2022	—	[R] 15.0	18.7	[R] 5,614.0	2.5	[R] 2,213.4	[R] 312.9	12,019.9	0.8	[R] 20,182.3	[R] 20,197.3	—	[R] 20,197.3
2023	—	17.5	16.1	4,634.1	1.9	1,762.4	247.0	10,772.4	0.5	17,434.5	17,452.0	—	17,452.0

[a] Transportation use of natural gas as vehicle fuel only.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET7. Electric power sector price and expenditure estimates, selected years, 1970-2023, Tennessee

Year	Coal	Natural gas [a]	Petroleum: Distillate fuel oil	Petroleum: Petroleum coke	Petroleum: Residual fuel oil	Petroleum: Total	Nuclear fuel	Biomass: Wood and waste [b]	Electricity imports [c]	Total energy [d]
	Prices in dollars per million Btu									
1970	0.23	0.25	—	—	—	—	—	—	—	0.23
1975	0.87	—	2.19	—	—	2.19	—	—	—	0.89
1980	1.56	2.33	6.39	—	—	6.39	0.38	—	—	1.57
1985	1.54	—	5.85	—	—	5.85	0.78	—	—	1.42
1990	1.34	2.75	5.61	—	—	5.61	0.84	—	—	1.24
1995	1.15	2.24	3.97	—	—	3.97	0.58	0.70	—	1.04
2000	1.11	3.96	6.35	—	—	6.35	0.43	0.67	—	0.96
2005	1.52	9.37	12.62	—	—	12.62	0.34	2.28	—	1.21
2006	1.69	7.00	14.00	—	—	14.00	0.41	2.32	—	1.37
2007	1.91	7.33	16.11	—	—	16.11	0.35	2.42	—	1.46
2008	2.15	9.82	15.18	—	—	15.18	0.47	2.66	—	1.67
2009	2.50	4.57	12.54	—	—	12.54	0.55	2.20	—	1.75
2010	2.64	4.94	17.04	—	—	17.04	0.64	2.40	—	1.99
2011	2.82	4.60	21.55	—	—	21.55	0.67	2.44	—	2.10
2012	2.61	2.87	22.08	—	—	22.08	0.73	2.21	—	1.96
2013	2.39	3.76	22.64	—	—	22.64	0.77	2.26	—	1.79
2014	2.45	4.55	17.89	—	—	17.89	0.72	2.73	—	1.92
2015	2.39	2.72	12.40	—	—	12.40	0.72	2.62	—	1.78
2016	2.23	2.59	10.47	—	—	10.47	0.71	2.54	—	1.65
2017	2.28	3.04	12.28	—	—	12.28	0.71	2.40	9.18	1.64
2018	2.16	3.17	16.21	—	—	16.21	0.68	2.22	—	1.53
2019	2.14	2.85	14.27	—	—	14.27	0.65	2.33	—	1.47
2020	1.91	2.44	10.29	—	—	10.29	0.62	1.80	—	1.24
2021	1.93	3.64	16.61	—	—	16.61	0.73	2.39	—	1.55
2022	3.49	R 5.86	27.24	—	—	27.24	0.59	2.69	—	R 2.40
2023	3.54	2.79	20.98	—	—	20.98	0.59	2.93	—	1.73
	Expenditures in million dollars									
1970	76.5	4.4	—	—	—	—	—	—	—	80.9
1975	359.6	—	16.7	—	—	16.7	—	—	—	376.4
1980	784.9	2.6	15.1	—	—	15.1	2.1	—	—	804.8
1985	757.7	—	8.1	—	—	8.1	79.6	—	—	845.5
1990	668.8	1.6	7.6	—	—	7.6	124.8	—	—	802.7
1995	657.1	4.7	10.5	—	—	10.5	95.5	0.2	—	768.0
2000	680.1	21.5	39.1	—	—	39.1	116.8	0.3	—	857.7
2005	874.9	53.9	29.4	—	—	29.4	98.6	0.7	—	1,057.6
2006	1,009.4	48.2	21.1	—	—	21.1	105.5	0.7	—	1,184.9
2007	1,133.1	54.9	25.9	—	—	25.9	105.5	0.6	—	1,319.9
2008	1,214.3	44.5	34.2	—	—	34.2	133.9	0.9	—	1,427.8
2009	1,023.9	17.2	25.2	—	—	25.2	156.3	0.7	—	1,223.4
2010	1,171.8	111.7	39.1	—	—	39.1	184.2	0.7	—	1,507.5
2011	1,162.5	121.6	46.3	—	—	46.3	189.1	0.9	—	1,520.4
2012	934.3	182.6	37.5	—	—	37.5	191.0	1.4	—	1,346.9
2013	798.5	140.2	32.8	—	—	32.8	228.3	1.9	—	1,201.7
2014	894.5	209.2	36.6	—	—	36.6	209.7	2.5	—	1,352.5
2015	751.2	191.1	18.9	—	—	18.9	187.6	2.2	—	1,151.1
2016	734.8	228.9	14.2	—	—	14.2	219.6	2.3	—	1,199.8
2017	671.7	230.5	17.3	—	—	17.3	237.8	2.2	0.7	1,160.2
2018	465.1	326.8	21.1	—	—	21.1	256.7	2.0	—	1,071.6
2019	394.9	338.4	22.2	—	—	22.2	242.0	2.1	—	999.5
2020	280.1	256.2	12.4	—	—	12.4	237.8	1.7	—	788.1
2021	377.6	358.8	24.3	—	—	24.3	269.0	2.0	—	1,031.7
2022	618.3	R 722.1	56.9	—	—	56.9	218.8	2.2	—	R 1,618.4
2023	613.9	291.3	28.5	—	—	28.5	233.3	1.6	—	1,168.7

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[c] Electricity imported from Canada and Mexico.
[d] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET1. Primary energy, electricity, and total energy price and expenditure estimates, selected years, 1970-2023, Texas

Year	Primary energy														Electric power sector [i,k,l]	Electricity [m]	Total energy [h,i,j]
	Coal				Petroleum								Biomass				
	Coking coal	Steam coal	Total	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Nuclear fuel	Wood and waste [g,h]	Total [h,i,j,k]			
	Prices in dollars per million Btu																
1970	0.38	0.86	0.39	0.29	0.94	1.09	0.72	2.66	0.42	1.06	1.54	—	1.43	0.85	0.25	4.52	1.28
1975	1.60	0.46	0.61	0.89	2.35	2.60	2.01	4.36	1.61	2.82	3.08	—	1.60	1.97	0.73	6.81	2.83
1980	1.81	1.19	1.22	2.17	6.73	5.49	6.34	9.26	2.49	7.22	6.85	—	2.40	4.40	1.65	12.69	6.15
1985	1.93	1.59	1.60	3.38	6.36	4.82	5.67	8.79	4.00	7.28	6.69	—	2.65	4.70	2.44	18.58	7.12
1990	—	1.44	1.44	2.45	7.49	4.59	5.41	9.16	2.93	6.06	6.43	0.56	1.39	4.14	1.69	17.09	6.51
1995	—	1.33	1.33	2.23	6.95	5.31	3.74	9.30	1.98	5.02	6.16	0.56	1.32	3.86	1.47	18.12	6.42
2000	—	1.23	1.23	4.29	9.35	8.15	6.26	11.35	3.95	7.51	8.66	0.45	1.64	5.74	2.50	19.15	8.74
2005	—	1.35	1.35	8.11	16.33	12.84	12.79	17.47	6.87	11.95	14.23	0.38	3.30	9.84	4.07	26.94	14.72
2006	—	1.51	1.51	7.00	18.45	15.52	14.50	19.98	7.32	14.37	16.60	0.38	3.31	10.84	3.46	30.52	16.78
2007	—	1.65	1.65	7.11	19.82	17.44	15.75	21.79	8.73	16.00	18.36	0.46	3.33	11.66	3.63	29.85	17.79
2008	—	1.90	1.90	9.16	26.45	22.12	22.53	25.47	8.73	21.93	23.43	0.48	3.79	14.35	4.62	32.42	21.71
2009	—	1.89	1.89	4.65	16.68	13.70	12.38	18.22	7.46	15.92	15.63	0.55	3.32	9.33	2.55	29.21	15.75
2010	—	1.87	1.87	5.18	20.39	16.92	16.13	21.71	8.33	R 20.75	R 19.03	0.64	3.22	R 11.24	2.81	27.69	R 17.36
2011	—	1.90	1.90	4.73	26.28	20.81	22.49	27.68	11.64	R 27.04	R 24.34	0.67	3.28	R 13.50	2.74	26.64	R 20.45
2012	—	1.91	1.91	3.52	26.97	15.30	22.84	28.15	12.69	R 26.32	R 22.85	0.73	3.06	R 12.67	2.23	25.33	R 19.11
2013	—	2.00	2.00	R 4.46	26.70	14.33	21.90	27.37	12.07	R 26.13	R 22.03	0.77	3.16	R 12.81	2.63	25.67	R 18.94
2014	—	2.03	2.03	R 5.20	25.62	14.40	20.20	26.06	11.71	R 25.53	R 21.58	0.72	3.60	R 12.73	2.92	26.49	R 18.78
2015	—	2.00	2.00	3.48	17.58	8.42	11.86	18.27	6.32	R 16.51	R 14.00	0.72	2.80	R 8.57	2.23	25.82	R 13.62
2016	—	1.83	1.83	3.27	14.90	8.11	9.60	16.30	4.67	R 14.17	R 12.36	0.71	2.53	R 7.73	2.04	25.01	R 12.47
2017	—	1.76	1.76	3.91	17.19	10.33	11.97	18.56	6.58	16.27	14.58	0.71	2.47	9.15	2.20	24.88	14.02
2018	—	1.78	1.78	3.89	20.59	11.79	15.61	20.44	8.10	19.80	16.68	0.68	2.27	10.37	2.35	25.16	15.24
2019	—	2.01	2.01	3.22	19.54	8.57	14.53	19.07	7.62	R 18.86	14.70	0.65	2.47	9.26	2.01	25.51	14.02
2020	—	2.05	2.05	2.89	15.77	7.22	9.13	15.37	5.55	R 14.71	11.58	0.62	R 2.04	7.29	1.88	24.81	R 11.83
2021	—	2.17	2.17	7.36	20.99	13.15	14.39	22.09	8.41	R 20.53	17.42	0.73	R 2.42	12.17	5.69	27.00	16.38
2022	—	2.31	2.31	R 7.35	R 32.46	12.85	26.19	28.76	14.35	R 28.80	R 22.86	0.59	R 2.85	R 14.91	R 4.50	29.99	20.78
2023	—	2.10	2.10	3.57	27.00	8.80	20.91	25.47	11.86	25.00	18.50	0.59	3.09	11.36	2.19	29.66	17.37
	Expenditures in million dollars																
1970	11.6	0.2	11.9	804.9	176.6	607.8	97.4	1,976.0	36.0	577.2	3,471.1	—	17.1	4,305.2	-267.8	1,421.0	5,458.4
1975	41.0	79.2	120.2	2,361.3	735.9	1,452.4	306.2	4,020.6	383.7	1,739.1	8,638.0	—	20.5	11,140.9	-1,100.2	2,895.0	12,935.7
1980	47.9	844.6	892.5	6,838.0	2,823.7	3,672.5	1,098.5	8,805.7	969.9	8,964.8	26,335.0	—	32.1	34,097.6	-3,576.1	7,434.5	37,956.0
1985	20.9	1,812.3	1,833.2	9,815.8	2,964.5	4,242.6	2,383.1	9,481.7	710.5	5,278.2	25,060.7	—	59.0	36,793.5	-5,653.0	13,119.7	44,260.2
1990	—	1,918.3	1,918.3	7,586.7	2,963.2	4,638.0	2,931.6	9,887.8	499.0	5,861.3	26,780.8	94.0	73.0	36,471.4	-4,441.0	13,430.7	45,461.1
1995	—	1,819.5	1,819.5	7,409.2	3,561.9	6,809.2	1,759.9	10,326.5	273.4	4,886.7	27,617.6	211.4	96.8	37,154.4	-4,312.8	15,675.1	48,516.7
2000	—	1,902.4	1,902.4	16,609.7	6,078.6	11,352.6	3,645.4	14,752.3	541.6	7,843.5	44,214.1	175.4	99.5	63,001.2	-8,777.8	20,327.8	74,551.2
2005	—	2,190.2	2,190.2	24,498.5	12,142.0	18,273.6	5,827.0	25,251.9	1,124.6	12,602.0	75,221.3	152.6	192.6	102,259.5	-14,182.6	29,987.5	118,064.4
2006	—	2,424.1	2,424.1	20,536.4	15,127.6	22,439.1	6,694.9	29,561.4	1,287.5	14,959.4	90,069.9	162.7	191.1	113,388.7	-12,085.9	34,718.9	136,021.7
2007	—	2,662.7	2,662.7	21,469.3	16,563.2	25,677.5	6,733.4	32,564.1	1,792.4	12,971.6	96,302.2	199.7	209.5	120,853.5	-12,800.4	33,964.2	142,017.3
2008	—	3,058.9	3,058.9	27,445.6	21,594.0	25,635.7	9,261.9	37,479.4	1,577.1	13,438.1	108,986.1	202.4	293.1	140,046.1	-16,109.6	37,310.8	161,247.2
2009	—	2,836.5	2,836.5	13,055.5	R 12,562.8	16,366.6	4,337.8	26,767.8	1,183.4	8,968.4	R 70,186.8	240.6	134.9	R 86,472.8	-8,560.0	33,318.0	R 111,230.8
2010	—	2,936.9	2,936.9	15,761.4	R 16,545.7	26,284.8	4,170.8	32,319.0	1,628.8	R 12,385.0	R 93,334.2	274.5	208.3	R 112,528.9	-9,484.6	32,698.3	R 135,742.6
2011	—	3,212.5	3,212.5	14,900.1	R 24,054.9	31,089.9	5,885.5	40,637.0	2,279.7	R 15,901.3	R 119,848.4	278.5	234.8	R 138,477.6	-9,829.1	33,064.8	R 161,713.2
2012	—	2,865.1	2,865.1	11,266.1	R 24,955.5	24,970.3	5,891.0	41,690.1	1,702.3	R 15,141.3	R 114,350.5	292.6	223.6	R 129,000.7	-7,670.3	30,604.4	R 151,934.7
2013	—	3,189.5	3,189.5	R 14,001.9	R 25,525.6	25,856.6	5,867.7	41,803.7	1,551.8	R 16,454.5	R 117,059.9	307.0	241.7	R 134,800.4	-9,061.1	32,034.7	R 157,774.0
2014	—	3,213.9	3,213.9	R 16,972.6	R 28,002.7	24,213.7	5,459.8	41,476.7	1,560.5	R 14,309.0	R 115,022.3	297.7	R 271.5	R 135,778.6	-10,041.8	33,991.3	R 159,728.1
2015	—	2,686.4	2,686.4	R 12,056.8	R 17,848.7	R 15,830.5	3,515.1	30,396.6	812.3	R 9,197.8	R 77,601.0	295.8	R 194.4	R 92,834.4	-7,620.8	33,370.6	R 118,584.2
2016	—	2,416.3	2,416.3	R 10,954.1	R 15,183.9	R 15,287.4	2,886.3	27,851.5	894.3	R 7,837.2	R 69,940.5	312.4	R 174.8	R 83,798.1	-6,801.5	32,863.5	R 109,860.0
2017	—	2,556.8	2,556.8	R 12,455.0	R 17,948.9	R 19,968.6	3,571.6	31,902.2	1,276.6	9,350.3	R 84,018.1	288.4	R 165.6	R 99,484.2	-7,185.3	32,928.5	R 125,227.5
2018	—	2,117.0	2,117.0	R 14,501.3	R 23,459.2	R 26,821.4	R 4,712.8	35,763.7	1,291.3	11,387.6	R 103,436.0	292.2	R 172.4	R 120,732.7	-7,815.0	35,240.1	R 148,157.7
2019	—	1,998.8	1,998.8	R 12,240.9	R 22,434.0	R 20,147.9	R 4,670.6	33,594.0	1,262.3	R 10,754.6	R 92,863.4	279.8	R 173.0	R 107,558.1	-6,532.2	36,138.3	R 137,164.2
2020	—	1,792.0	1,792.0	R 10,810.5	R 15,347.1	R 16,743.4	R 1,813.5	23,363.7	759.5	R 7,531.7	R 65,558.8	268.6	R 147.9	R 78,582.3	-5,775.2	35,055.3	R 107,862.4
2021	—	2,105.5	2,105.5	R 27,041.6	R 22,431.1	R 33,751.3	R 3,605.3	37,048.6	1,489.7	R 10,997.3	R 109,323.5	306.1	R 184.6	R 138,966.9	-17,354.7	39,132.8	R 160,745.0
2022	—	2,156.8	2,156.8	R 28,408.3	R 35,760.8	R 29,529.5	R 7,404.4	49,681.8	2,606.1	R 13,765.2	R 138,747.8	255.5	R 239.4	R 169,817.8	R -14,470.3	47,454.0	R 202,801.5
2023	—	1,694.9	1,694.9	14,659.3	29,083.9	21,884.5	6,564.4	44,650.1	1,787.3	11,591.1	115,561.3	250.2	228.9	132,399.0	-7,206.2	48,715.4	173,908.2

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[l] Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
[m] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.
Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET2. Total end-use energy price and expenditure estimates, selected years, 1970-2023, Texas

Year	Primary energy											Electricity [k]	Total energy [h,i,j]
			Petroleum							Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g,h]	Total [h,i,j]		
	Prices in dollars per million Btu												
1970	0.39	0.33	0.94	1.09	0.72	2.66	0.41	1.06	1.54	1.50	1.02	4.52	1.28
1975	1.20	1.03	2.35	2.60	2.01	4.36	1.60	2.82	3.09	1.66	2.42	6.81	2.83
1980	1.28	2.45	6.77	5.49	6.34	9.26	2.49	7.22	6.86	2.44	5.47	12.69	6.15
1985	1.64	3.55	6.37	4.82	5.67	8.79	3.99	7.28	6.69	2.96	5.66	18.58	7.12
1990	1.14	2.66	7.51	4.59	5.41	9.16	2.92	6.06	6.43	1.46	5.17	17.09	6.51
1995	1.25	2.43	6.97	5.31	3.74	9.30	1.99	5.09	6.18	1.33	4.91	18.12	6.42
2000	1.26	4.38	9.40	8.15	6.26	11.35	3.95	7.63	8.69	1.66	7.26	19.15	8.74
2005	1.54	8.31	16.34	12.84	12.79	17.47	6.87	12.12	14.27	3.35	12.75	26.94	14.72
2006	1.89	7.63	18.46	15.52	14.50	19.98	7.33	14.59	16.65	3.36	14.54	30.52	16.78
2007	2.47	7.60	19.83	17.44	15.75	21.79	8.73	16.22	18.40	3.39	15.79	29.85	17.79
2008	2.79	9.59	26.46	22.12	22.53	25.47	8.73	22.27	23.48	3.86	19.75	32.42	21.71
2009	3.91	5.43	16.69	13.70	12.38	18.22	7.46	16.30	15.68	3.46	13.16	29.21	15.75
2010	5.02	5.68	20.40	16.92	16.13	21.71	8.33	R 20.92	R 19.05	3.29	R 15.52	27.69	R 17.36
2011	3.81	5.14	26.29	20.81	22.49	27.68	11.64	R 27.30	R 24.37	3.36	R 19.30	26.64	R 20.45
2012	3.95	4.07	26.97	15.30	22.84	28.15	12.69	R 26.35	R 22.85	3.17	R 18.00	25.33	R 19.11
2013	3.87	R 4.99	26.70	14.33	21.90	27.37	12.07	R 26.18	R 22.03	3.27	R 17.75	25.67	R 18.94
2014	3.81	R 5.77	25.62	14.40	20.20	26.06	11.71	R 25.53	R 21.58	3.74	R 17.41	26.49	R 18.78
2015	3.99	4.12	17.59	8.42	11.86	18.27	6.32	R 16.51	R 14.00	2.83	R 11.50	25.82	R 13.62
2016	3.99	R 3.88	14.90	8.11	9.60	16.30	4.67	R 14.17	R 12.36	2.53	R 10.27	25.01	R 12.47
2017	3.69	R 4.56	17.19	10.33	11.97	18.56	6.58	16.27	14.58	2.48	12.13	24.88	14.02
2018	4.30	4.55	20.60	11.79	15.61	20.44	8.10	19.80	16.68	2.28	13.57	25.16	15.24
2019	4.32	4.04	19.54	8.57	14.53	19.07	7.62	R 18.86	14.70	2.48	12.08	25.51	14.02
2020	4.20	3.60	15.78	7.22	9.13	15.37	5.55	R 14.71	11.58	R 2.05	9.45	24.81	R 11.83
2021	3.97	6.02	R 21.00	13.15	14.39	22.09	8.41	R 20.53	17.42	R 2.42	14.54	27.00	16.38
2022	4.47	R 8.11	R 32.48	12.85	26.19	28.76	14.35	R 28.80	R 22.86	R 2.87	R 19.00	29.99	20.78
2023	5.59	4.61	27.01	8.80	20.91	25.47	11.86	25.00	18.50	3.10	14.96	29.66	17.37
	Expenditures in million dollars												
1970	11.9	538.5	176.5	607.8	97.4	1,976.0	35.7	577.2	3,470.6	16.5	4,037.4	1,421.0	5,458.4
1975	93.3	1,311.3	735.1	1,452.4	306.2	4,020.6	363.1	1,739.1	8,616.4	19.7	10,040.7	2,895.0	12,935.7
1980	80.9	4,110.8	2,798.5	3,672.5	1,098.5	8,805.7	959.1	8,964.8	26,299.1	30.7	30,521.6	7,434.5	37,956.0
1985	139.1	5,908.9	2,939.4	4,242.6	2,383.1	9,481.7	686.3	5,278.2	25,011.4	56.6	31,140.5	13,119.7	44,260.2
1990	70.2	5,118.9	2,938.9	4,638.0	2,931.6	9,887.8	493.4	5,861.3	26,751.0	71.8	32,030.4	13,430.7	45,461.1
1995	79.8	5,071.3	3,550.2	6,809.2	1,759.9	10,326.5	272.6	4,875.4	27,594.0	96.5	32,841.5	15,675.1	48,516.7
2000	92.6	9,916.7	5,997.0	11,352.6	3,645.4	14,752.3	531.5	7,836.3	44,115.2	98.9	54,223.4	20,327.8	74,551.2
2005	108.6	12,592.4	12,122.8	18,273.6	5,827.0	25,251.9	1,123.4	12,590.8	75,189.5	186.4	88,076.9	29,987.5	118,064.4
2006	133.9	10,949.4	15,110.0	22,439.1	6,694.9	29,561.4	1,285.1	14,944.3	90,034.7	184.8	101,302.8	34,718.9	136,021.7
2007	100.1	11,493.3	16,540.4	25,677.5	6,733.4	32,564.1	1,790.1	12,955.0	96,260.4	199.3	108,053.1	33,964.2	142,017.3
2008	109.6	14,614.8	21,570.6	25,635.7	9,261.9	37,479.4	1,576.7	13,407.6	108,931.9	280.1	123,936.5	37,310.8	161,247.2
2009	68.2	7,561.3	R 12,552.7	16,366.6	4,337.8	26,767.8	1,183.4	8,949.9	R 70,158.2	125.2	R 77,912.9	33,318.0	R 111,230.8
2010	70.8	9,476.7	R 16,526.2	26,284.8	4,170.8	32,319.0	1,628.8	R 12,371.0	R 93,300.7	196.1	R 103,044.3	32,698.3	R 135,742.6
2011	75.3	8,558.9	R 24,021.2	31,089.9	5,885.5	40,637.0	2,279.7	R 15,881.5	R 119,794.9	219.3	R 128,648.5	33,064.8	R 161,713.2
2012	79.6	6,730.5	R 24,924.4	24,970.3	5,891.0	41,690.1	1,699.9	R 15,139.9	R 114,315.5	204.8	R 121,330.3	30,604.4	R 151,934.7
2013	84.6	R 8,396.9	R 25,502.7	25,856.6	5,867.7	41,803.7	1,551.8	R 16,451.9	R 117,034.4	223.3	R 125,739.3	32,034.7	R 157,774.0
2014	105.5	R 10,388.5	R 27,980.4	24,213.7	5,459.8	41,476.7	1,560.5	R 14,309.0	R 115,000.1	R 242.8	R 125,736.8	33,991.3	R 159,728.1
2015	82.1	R 7,380.1	R 17,833.1	R 15,830.5	3,515.1	30,396.6	812.3	R 9,197.8	R 77,585.4	R 166.0	R 85,213.6	33,370.6	R 118,584.2
2016	55.1	R 6,858.1	R 15,174.6	R 15,287.4	2,886.3	27,851.5	894.3	R 7,837.2	R 69,931.2	R 152.2	R 76,996.5	32,863.5	R 109,860.0
2017	46.1	R 8,096.9	R 17,939.2	R 19,968.6	3,571.6	31,902.2	1,276.6	9,350.3	R 84,008.4	R 147.6	R 92,298.9	32,928.5	R 125,227.5
2018	46.3	R 9,290.3	R 23,449.1	R 26,821.4	R 4,712.8	35,763.7	1,291.3	11,387.6	R 103,425.9	R 155.2	R 112,917.6	35,240.1	R 148,157.7
2019	42.7	R 7,969.4	R 22,426.2	R 20,147.9	R 4,670.6	33,594.0	1,262.3	R 10,754.6	R 92,855.6	R 158.1	R 101,025.9	36,138.3	R 137,164.2
2020	25.8	R 7,089.6	R 15,341.5	R 16,743.4	R 1,813.5	23,363.7	759.5	R 7,531.7	R 65,553.2	R 138.5	R 72,807.1	35,055.3	R 107,862.4
2021	23.7	R 12,126.8	R 22,398.7	R 33,751.3	R 3,605.3	37,048.6	1,489.7	R 10,997.3	R 109,291.1	R 170.6	R 121,612.2	39,132.8	R 160,745.0
2022	28.3	R 16,439.0	R 35,678.4	R 29,529.5	R 7,404.4	49,681.8	2,606.1	R 13,765.2	R 138,665.4	R 214.8	R 155,347.5	47,454.0	R 202,801.5
2023	26.0	9,452.9	29,025.9	21,884.5	6,564.4	44,650.1	1,787.3	11,591.1	115,503.3	210.6	125,192.8	48,715.4	173,908.2

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. · Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2023, Texas

Year	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
	Prices in dollars per million Btu									
1970	0.90	0.90	0.98	1.68	1.29	1.67	0.71	1.04	6.31	2.48
1975	—	1.48	2.24	3.50	3.01	3.45	1.39	1.77	8.74	4.07
1980	2.54	3.31	6.51	7.39	8.35	7.43	3.57	3.67	14.92	8.50
1985	2.83	5.55	6.99	8.53	6.44	8.47	4.04	5.79	21.99	13.69
1990	2.41	5.54	4.32	10.39	6.44	10.36	3.53	5.88	21.12	13.96
1995	—	5.68	5.29	9.62	4.04	9.55	2.87	5.81	22.61	15.50
2000	2.13	7.17	8.54	14.51	7.64	14.48	4.37	8.25	23.33	17.64
2005	2.45	12.14	14.14	21.21	13.57	21.19	6.83	13.19	32.03	25.52
2006	3.73	12.77	16.33	23.38	17.27	23.36	7.87	13.85	37.68	30.14
2007	2.94	11.69	17.88	24.90	15.69	24.88	8.70	13.02	36.17	27.89
2008	—	13.39	24.88	28.96	19.45	28.95	10.72	14.93	38.19	30.18
2009	—	10.92	14.54	24.44	19.84	24.44	8.05	12.11	36.29	28.21
2010	—	10.47	17.66	27.84	21.02	27.83	9.50	11.83	33.99	26.08
2011	—	9.93	25.41	30.56	25.97	30.55	11.42	11.62	32.48	25.90
2012	—	10.26	25.32	28.00	27.18	27.99	12.71	11.66	32.18	26.18
2013	—	10.25	26.34	27.71	26.69	27.71	12.45	11.60	33.28	26.13
2014	—	10.79	25.39	32.71	25.87	32.71	12.14	12.35	34.77	26.77
2015	—	10.28	15.93	24.49	17.01	24.48	8.37	11.40	33.88	26.58
2016	—	11.39	13.51	23.36	13.56	23.35	7.15	12.54	32.22	26.56
2017	—	13.23	15.67	27.27	16.96	27.27	8.00	14.42	32.28	27.39
2018	—	11.11	17.28	28.36	24.50	28.35	8.85	12.24	32.82	26.26
2019	—	10.34	16.64	24.78	22.88	24.78	8.51	11.55	34.47	27.00
2020	—	11.38	13.66	21.68	14.86	21.68	7.04	R 12.06	34.33	R 27.67
2021	—	13.47	16.32	28.41	23.47	28.41	8.45	R 14.25	35.48	R 29.02
2022	—	16.21	25.21	31.58	37.10	31.58	13.07	R 17.31	40.33	R 33.23
2023	—	17.02	23.08	29.24	34.11	29.24	11.95	17.82	42.39	35.53
	Expenditures in million dollars									
1970	(s)	213.8	0.8	89.7	0.2	90.8	1.7	306.4	701.2	1,007.6
1975	—	353.8	3.5	138.5	0.7	142.7	4.1	500.6	1,219.6	1,720.2
1980	(s)	765.9	0.3	157.0	9.4	166.7	17.8	950.3	2,910.3	3,860.6
1985	0.1	1,226.8	1.1	214.8	4.1	220.0	40.9	1,487.8	5,381.8	6,869.7
1990	0.1	1,216.5	(s)	220.9	1.0	221.9	30.5	1,469.1	5,947.4	7,416.5
1995	—	1,221.6	0.2	110.7	0.5	111.4	15.5	1,348.4	7,161.9	8,510.3
2000	(s)	1,434.2	0.1	540.9	1.3	542.4	18.2	1,994.9	9,304.8	11,299.7
2005	0.1	2,310.4	0.4	648.5	1.2	650.1	48.9	3,009.4	13,831.8	16,841.2
2006	(s)	2,179.2	(s)	543.6	0.7	544.4	50.0	2,773.6	16,307.4	19,081.0
2007	(s)	2,397.6	(s)	632.4	0.8	633.3	61.0	3,091.9	15,418.6	18,510.5
2008	—	2,650.3	(s)	696.8	0.9	697.7	84.1	3,432.1	16,712.3	20,144.4
2009	—	2,150.2	0.1	503.2	0.3	503.7	38.4	2,692.3	16,074.3	18,766.6
2010	—	2,450.2	0.1	570.7	0.6	571.3	48.6	3,070.2	15,905.9	18,976.0
2011	—	2,041.6	0.5	562.0	0.4	562.8	56.7	2,661.1	16,142.0	18,803.1
2012	—	1,793.3	0.4	410.9	0.1	411.3	52.8	2,257.4	15,087.7	17,345.1
2013	—	2,175.1	0.1	485.3	0.2	485.5	67.4	2,728.0	15,926.1	18,654.1
2014	—	2,617.2	0.2	606.7	0.2	607.2	66.5	3,291.0	16,715.8	20,006.8
2015	—	2,249.1	0.2	467.2	0.1	467.5	9.3	2,725.8	16,838.4	19,564.2
2016	—	2,056.6	0.1	457.5	0.1	457.6	5.8	R 2,520.1	16,048.3	18,568.4
2017	—	2,234.0	0.1	435.3	0.1	435.4	5.0	2,674.5	15,886.4	18,560.9
2018	—	2,592.7	0.1	473.1	0.1	473.3	9.0	R 3,075.0	17,609.6	20,684.6
2019	—	2,420.6	0.1	535.3	0.1	535.5	R 9.0	2,965.0	18,287.0	21,252.0
2020	—	2,379.9	(s)	348.8	0.1	348.8	R 17.6	R 2,746.4	18,322.0	R 21,068.4
2021	—	2,908.2	0.1	365.3	0.1	365.5	R 21.8	R 3,295.5	18,772.3	R 22,067.8
2022	—	R 3,845.3	0.2	610.2	0.2	610.6	R 42.6	R 4,498.4	23,474.7	R 27,973.1
2023	—	3,477.7	0.2	456.4	0.2	456.8	33.1	3,967.5	24,388.8	28,356.4

[a] Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2023, Texas

Year	Primary energy										Electricity [j]	Total energy [g,h,i]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f,g]	Total [g,h,i]		
	Prices in dollars per million Btu											
1970	0.86	0.44	0.90	0.98	0.76	2.66	0.48	1.00	0.71	0.57	5.19	1.89
1975	—	1.02	2.14	2.34	2.23	4.36	1.87	2.35	1.39	1.43	7.59	3.89
1980	0.89	2.90	6.23	4.99	6.89	9.26	2.53	6.19	3.57	3.89	14.12	7.74
1985	1.60	4.70	6.13	4.20	6.44	8.79	3.87	6.29	4.04	5.14	20.06	12.36
1990	1.14	3.97	5.58	4.01	6.44	9.16	2.60	6.57	3.50	4.36	18.12	11.68
1995	—	3.93	4.16	8.67	4.04	9.30	2.46	5.16	2.83	4.03	19.38	12.23
2000	1.26	5.49	6.89	11.98	7.64	11.35	—	8.25	4.12	6.00	20.11	14.23
2005	1.54	10.19	13.28	17.02	13.57	17.47	—	14.82	5.90	10.79	25.95	20.82
2006	1.89	9.99	15.56	18.83	17.27	19.98	—	16.96	6.34	10.92	28.88	23.16
2007	2.47	9.52	17.21	20.75	15.69	21.79	9.15	18.11	6.96	10.38	28.93	22.80
2008	2.99	10.96	24.01	25.15	19.45	25.47	13.15	24.47	8.56	12.57	31.50	25.11
2009	4.39	7.95	13.83	20.22	19.84	18.22	9.45	15.67	5.63	9.01	28.31	21.90
2010	3.69	7.65	17.81	21.53	21.02	21.71	11.59	19.39	6.21	8.97	26.94	20.68
2011	3.76	6.88	24.16	25.08	25.97	27.68	16.23	24.43	7.68	9.62	25.87	20.33
2012	3.99	6.45	24.87	19.02	27.18	28.15	18.05	23.76	7.77	9.28	23.91	19.44
2013	4.11	7.08	24.15	18.59	26.69	27.37	17.50	22.85	7.22	9.27	23.50	19.10
2014	3.85	7.99	21.99	19.71	25.87	26.06	17.00	21.56	R 7.14	9.72	23.92	19.42
2015	4.21	6.68	13.15	11.75	17.01	18.27	—	15.51	R 2.90	8.61	23.90	18.77
2016	—	6.69	11.21	11.63	13.56	16.30	8.83	13.80	R 2.07	R 8.34	24.20	19.15
2017	—	7.50	13.52	15.22	16.96	18.56	—	16.49	R 1.84	9.42	24.20	19.53
2018	—	6.37	16.89	16.66	24.50	20.44	—	18.80	R 2.66	8.53	23.92	18.49
2019	—	6.02	15.74	12.91	22.88	19.07	—	16.93	R 4.87	8.15	23.61	18.31
2020	—	6.38	10.46	12.09	14.86	15.37	8.40	R 13.33	7.04	8.01	22.27	R 17.73
2021	—	8.32	16.65	19.33	23.47	22.09	—	19.80	8.45	11.23	25.57	20.83
2022	—	11.34	28.36	20.50	37.10	28.76	—	26.88	13.07	14.83	26.51	R 22.76
2023	—	9.86	22.30	16.16	34.11	25.47	—	22.79	11.95	12.52	25.86	21.74
	Expenditures in million dollars											
1970	(s)	66.3	4.4	15.9	15.6	9.7	0.2	45.8	(s)	112.1	405.2	517.4
1975	—	122.6	20.8	28.1	53.1	15.7	7.9	125.7	0.1	248.3	877.2	1,125.5
1980	(s)	504.3	103.1	32.2	126.9	160.5	40.9	463.6	0.4	968.4	2,122.5	3,090.9
1985	0.2	741.3	242.2	32.1	9.1	90.2	6.1	379.8	1.0	1,122.5	4,116.0	5,238.5
1990	0.2	713.6	72.4	25.9	0.9	110.4	1.2	210.7	3.3	928.2	4,376.7	5,304.9
1995	—	857.6	64.7	30.3	1.1	7.9	(s)	104.0	2.1	963.7	5,314.4	6,278.1
2000	0.2	1,079.9	227.0	135.6	2.1	9.9	—	374.5	3.1	1,457.7	6,844.4	8,302.1
2005	0.4	1,674.9	209.9	171.6	3.3	16.3	—	401.1	8.5	2,084.9	9,809.8	11,894.7
2006	(s)	1,510.5	218.5	167.0	7.2	19.4	—	412.1	9.0	1,931.6	10,950.5	12,882.1
2007	(s)	1,575.5	243.1	55.3	3.8	41.7	0.8	344.7	10.7	1,930.8	10,909.8	12,840.6
2008	1.0	1,880.2	316.8	218.2	4.2	46.9	0.6	586.7	13.7	2,481.5	12,211.7	14,693.2
2009	1.6	1,363.6	267.4	138.0	3.9	28.8	0.2	438.3	6.0	1,809.5	11,447.7	13,257.2
2010	1.1	1,491.5	256.6	194.1	2.7	35.9	1.0	490.4	7.1	1,990.0	11,163.4	13,153.4
2011	1.1	1,304.2	641.2	173.4	2.8	42.0	4.5	863.9	8.0	2,177.2	11,315.4	13,492.6
2012	1.1	1,069.3	597.9	131.8	1.4	43.2	2.7	777.0	7.8	1,855.2	10,856.8	12,712.0
2013	1.0	1,260.1	R 477.4	139.5	0.7	43.6	3.2	R 664.5	8.9	R 1,934.4	10,944.9	R 12,879.3
2014	0.9	1,527.3	R 408.7	158.5	2.0	40.0	1.0	R 610.1	R 8.8	R 2,147.2	11,379.8	R 13,527.0
2015	0.7	1,217.1	R 219.4	101.0	0.7	475.9	—	R 797.1	R 2.0	R 2,016.9	11,115.3	R 13,132.2
2016	—	1,132.1	R 211.1	82.1	0.9	418.8	0.4	R 713.2	R 1.3	R 1,846.5	11,483.8	R 13,330.3
2017	—	1,270.5	R 200.5	100.1	0.5	470.8	—	R 771.9	R 1.1	R 2,043.5	11,352.3	R 13,395.7
2018	—	1,402.8	R 194.1	158.6	0.7	524.1	—	R 877.5	R 1.5	R 2,281.8	11,714.6	R 13,996.4
2019	—	1,224.0	R 217.7	125.3	0.8	493.3	—	R 837.0	R 1.3	R 2,062.3	11,440.0	R 13,502.4
2020	—	1,127.3	R 107.4	210.3	0.8	399.3	3.0	R 720.8	R 3.5	R 1,851.5	11,030.9	R 12,882.5
2021	—	1,541.7	R 265.0	408.2	0.8	578.6	—	R 1,252.6	R 4.2	R 2,798.5	12,897.9	R 15,696.4
2022	—	R 2,276.0	R 505.5	253.8	1.3	799.1	—	R 1,559.8	R 6.5	R 3,842.2	14,538.6	R 18,380.9
2023	—	1,977.8	327.5	161.4	1.9	692.4	—	1,183.2	5.9	3,167.0	14,629.0	17,796.0

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[g] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[j] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: Expenditure totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2023, Texas

Year	Primary energy												Electricity [i]	Total energy [f,g,h]
	Coal			Natural gas [a]	Petroleum						Biomass	Total [f,g,h]		
	Coking coal	Steam coal	Total		Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e,f]			
	Prices in dollars per million Btu													
1970	0.38	0.86	0.38	0.20	0.66	1.04	2.66	0.37	0.97	0.99	1.74	0.56	2.51	0.66
1975	1.60	1.01	1.20	0.92	2.02	2.54	4.36	1.51	2.76	2.56	1.74	1.83	4.70	2.04
1980	1.81	0.89	1.28	2.24	6.09	5.43	9.26	3.69	7.15	6.42	1.68	4.74	9.99	5.09
1985	1.93	1.60	1.64	3.07	6.10	4.72	8.79	3.87	7.09	5.82	1.68	4.56	14.15	5.29
1990	—	1.14	1.14	2.09	5.91	4.47	9.16	2.60	5.86	5.23	0.96	3.82	11.82	4.35
1995	—	1.25	1.25	1.81	4.49	5.26	9.30	2.46	4.88	5.09	1.19	3.66	11.68	4.16
2000	—	1.26	1.26	3.97	7.17	7.93	11.35	3.63	7.43	7.71	1.42	5.97	12.96	6.44
2005	—	1.54	1.54	7.41	13.76	12.62	17.47	6.69	11.87	12.38	2.75	10.57	20.93	11.33
2006	—	1.89	1.89	6.52	16.04	15.36	19.98	8.11	14.28	14.96	2.66	12.11	22.91	12.96
2007	—	2.47	2.47	6.59	17.48	17.29	21.79	9.15	15.79	16.79	2.54	13.23	22.84	14.04
2008	—	2.79	2.79	8.73	24.37	21.94	25.47	13.15	21.72	22.00	2.89	16.54	25.76	17.40
2009	—	3.90	3.90	3.95	14.14	13.46	18.22	9.45	15.66	14.14	2.66	10.41	19.76	11.26
2010	—	5.05	5.05	4.46	18.11	16.74	21.71	11.59	R 19.82	R 17.61	2.64	R 12.79	18.86	R 13.26
2011	—	3.82	3.82	4.10	24.24	20.66	27.68	16.23	R 26.08	R 22.32	2.61	R 15.49	18.27	R 15.71
2012	—	3.95	3.95	2.94	24.98	15.17	28.15	18.05	R 25.09	R 18.44	2.43	R 12.76	16.33	R 13.01
2013	—	3.87	3.87	3.83	24.46	14.18	27.37	17.50	R 25.00	R 17.60	2.39	R 12.84	17.02	R 13.14
2014	—	3.81	3.81	4.56	23.12	14.16	26.06	17.00	R 24.01	R 17.28	2.88	R 12.53	18.06	R 12.96
2015	—	3.99	3.99	2.79	13.93	8.24	18.27	10.84	R 14.62	R 9.99	2.72	R 7.39	16.39	R 8.07
2016	—	3.99	3.99	2.57	12.28	7.93	16.30	8.83	R 12.36	R 9.19	2.47	R 6.78	15.61	R 7.46
2017	—	3.69	3.69	3.19	14.94	10.17	18.56	10.95	14.67	11.48	2.42	8.48	15.69	9.06
2018	—	4.30	4.30	3.33	18.37	11.65	20.44	11.62	18.18	13.33	2.17	9.77	15.80	10.22
2019	—	4.32	4.32	2.81	16.94	8.40	19.07	11.75	R 17.12	10.55	2.37	R 7.89	15.96	8.53
2020	—	4.20	4.20	2.26	11.77	7.08	15.37	8.40	R 12.94	8.34	1.82	6.15	14.86	6.82
2021	—	3.97	3.97	4.75	18.13	13.02	22.09	12.56	R 18.70	14.25	2.14	R 10.98	17.95	R 11.52
2022	—	4.47	4.47	R 6.49	28.40	12.64	28.76	19.16	R 26.30	15.87	R 2.33	R 12.41	20.89	R 13.17
2023	—	5.59	5.59	2.42	22.91	8.64	25.47	16.31	22.81	11.61	2.65	8.36	19.34	9.39
	Expenditures in million dollars													
1970	11.6	0.2	11.8	258.3	33.9	481.0	19.7	4.5	489.4	1,028.5	14.7	1,313.3	314.5	1,627.9
1975	41.0	52.3	93.3	834.9	168.1	1,241.2	22.8	99.0	1,583.6	3,114.8	15.5	4,058.5	798.2	4,856.7
1980	47.9	32.9	80.9	2,840.6	701.9	3,470.9	22.9	300.1	8,604.7	13,100.4	12.5	16,034.4	2,401.7	18,436.1
1985	20.9	118.0	138.8	3,940.8	685.9	3,982.6	217.1	133.2	5,007.0	10,025.8	14.7	14,120.7	3,621.9	17,742.5
1990	—	69.8	69.8	3,188.7	604.6	4,380.3	208.7	14.9	5,575.6	10,784.0	37.9	14,080.8	3,106.7	17,187.5
1995	—	79.8	79.8	2,991.1	520.3	6,654.1	190.8	28.2	4,600.6	11,994.0	78.9	15,143.9	3,198.8	18,342.7
2000	—	92.3	92.3	7,398.4	880.8	10,663.3	152.1	9.2	7,519.2	19,224.6	77.6	26,792.9	4,176.7	30,969.6
2005	—	108.1	108.1	8,588.1	1,600.5	17,416.7	523.1	148.8	12,179.4	31,868.4	129.0	40,693.6	6,340.0	47,033.6
2006	—	133.9	133.9	7,240.9	1,882.4	21,684.8	631.4	200.1	14,445.0	38,843.6	125.8	46,344.2	7,455.7	53,800.0
2007	—	100.1	100.1	7,502.0	2,276.7	24,955.4	513.2	179.4	12,407.8	40,332.4	127.6	48,062.1	7,630.2	55,692.2
2008	—	108.7	108.7	10,061.6	3,723.3	24,646.1	503.0	299.2	12,820.2	41,991.9	182.3	52,344.5	8,380.9	60,725.3
2009	—	66.5	66.5	4,036.9	1,612.1	15,680.5	352.6	200.6	8,430.0	26,275.8	80.8	30,460.0	5,789.0	36,248.9
2010	—	69.8	69.8	5,522.4	2,328.9	25,504.5	632.5	237.6	R 11,337.5	R 40,041.0	140.4	R 45,773.6	5,621.8	R 51,395.3
2011	—	74.2	74.2	5,197.6	4,242.3	30,340.8	845.8	463.8	R 14,657.9	R 50,550.7	154.7	R 55,977.1	5,600.5	R 61,577.6
2012	—	78.5	78.5	3,845.5	4,903.6	24,416.7	797.9	244.7	R 13,956.7	R 44,319.6	144.2	R 48,387.8	4,652.4	R 53,040.2
2013	—	83.6	83.6	4,931.9	4,599.8	25,216.4	844.5	177.1	R 15,220.1	R 46,057.8	147.0	R 51,220.4	5,157.5	R 56,377.9
2014	—	104.6	104.6	6,202.0	5,259.5	23,412.2	591.8	196.9	R 12,962.7	R 42,423.0	167.4	R 48,897.0	5,886.7	R 54,783.8
2015	—	81.4	81.4	3,871.1	2,190.0	15,241.3	340.2	83.7	R 7,828.8	R 25,683.9	154.7	R 29,791.1	5,407.3	R 35,198.4
2016	—	55.1	55.1	3,633.0	2,107.4	14,724.5	301.8	111.4	R 6,580.4	R 23,825.5	145.2	R 27,658.7	5,317.0	R 32,975.7
2017	—	46.1	46.1	4,574.9	2,623.3	19,405.4	347.2	171.1	8,145.9	30,693.0	141.5	35,455.5	5,675.1	41,130.6
2018	—	46.3	46.3	5,277.4	3,587.0	26,172.7	391.1	171.1	10,106.5	40,428.4	144.7	45,896.7	5,900.7	51,797.4
2019	—	42.7	42.7	4,309.0	3,127.3	19,473.9	364.7	144.8	R 9,436.6	R 32,547.4	147.9	R 37,047.1	6,399.2	R 43,446.3
2020	—	25.8	25.8	3,571.5	1,603.9	16,178.6	297.2	83.6	R 6,412.9	R 24,576.2	117.4	R 28,290.9	5,691.1	R 33,982.0
2021	—	23.7	23.7	7,667.5	3,182.4	32,970.0	422.1	184.5	R 9,690.7	R 46,449.7	144.6	R 54,285.4	7,450.7	R 61,736.2
2022	—	28.3	28.3	R 10,302.5	5,041.8	28,638.6	573.6	288.2	R 12,082.0	R 46,624.3	R 165.7	R 57,120.8	9,428.4	R 66,549.2
2023	—	26.0	26.0	3,986.0	3,967.4	21,245.8	517.8	203.8	10,256.1	36,190.9	171.6	40,374.5	9,685.2	50,059.7

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[i] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET6. Transportation sector energy price and expenditure estimates, selected years, 1970-2023, Texas

Year	Primary energy											Electricity [g]	Total energy [f]
			Petroleum										
	Coal	Natural gas[a]	Aviation gasoline	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Lubricants	Motor gasoline [e]	Residual fuel oil	Total	Total [f]		
	Prices in dollars per million Btu												
1970	0.86	—	2.17	1.05	0.98	0.72	5.08	2.66	0.42	2.07	2.07	—	2.07
1975	1.01	—	3.45	2.49	2.34	2.01	7.48	4.36	1.63	3.54	3.54	—	3.54
1980	—	—	9.02	7.09	4.99	6.34	14.36	9.26	2.15	7.42	7.42	—	7.42
1985	—	—	9.99	6.50	5.57	5.67	18.18	8.79	4.03	7.46	7.46	—	7.46
1990	—	2.96	9.32	8.20	5.94	5.41	20.61	9.16	2.94	7.60	7.61	—	7.61
1995	—	2.76	8.36	7.84	11.49	3.74	21.75	9.30	1.94	7.40	7.40	—	7.40
2000	—	3.84	10.87	10.14	14.25	6.26	23.20	11.35	3.96	9.60	9.60	18.51	9.60
2005	—	10.23	18.56	16.91	20.49	12.79	35.22	17.47	6.90	16.04	16.03	24.76	16.03
2006	—	9.82	22.31	18.93	21.89	14.50	43.88	19.98	7.20	18.19	18.19	24.67	18.19
2007	—	9.51	23.70	20.32	24.75	15.75	47.16	21.79	8.68	19.72	19.72	24.63	19.72
2008	—	11.23	27.23	27.00	29.32	22.53	55.12	25.47	8.09	24.48	24.47	25.31	24.47
2009	—	4.76	20.32	17.24	23.28	12.38	56.07	18.22	7.15	16.73	16.71	28.80	16.72
2010	—	5.21	25.19	20.89	26.62	16.13	58.80	21.71	7.95	20.24	20.23	28.78	20.23
2011	—	6.84	31.64	26.87	30.31	22.49	69.54	27.68	10.85	26.12	26.10	29.55	26.10
2012	—	9.86	33.04	27.60	23.15	22.84	72.11	28.15	12.07	26.97	26.95	30.88	26.95
2013	—	R 9.71	32.71	27.33	22.65	21.90	69.42	27.37	11.60	26.36	R 26.34	29.86	R 26.34
2014	—	R 9.74	33.16	26.37	23.96	20.20	69.44	26.06	11.20	25.24	R 25.21	15.14	R 25.21
2015	—	R 9.44	24.86	18.36	R 12.92	11.86	67.28	18.27	6.03	17.46	17.45	15.64	17.45
2016	—	R 9.12	21.62	15.53	R 12.79	9.60	65.78	16.30	4.38	15.01	15.00	23.21	R 15.00
2017	—	R 9.21	24.13	17.72	R 17.39	11.97	67.25	18.56	6.19	17.22	17.22	23.91	17.22
2018	—	R 9.48	27.04	21.11	R 19.18	15.61	72.37	20.44	7.74	19.86	19.86	23.67	19.86
2019	—	R 9.71	25.57	20.10	R 14.39	14.53	74.92	19.07	7.29	18.65	R 18.64	18.88	R 18.64
2020	—	R 9.61	22.34	16.50	R 12.49	9.13	75.34	15.37	5.31	15.10	15.10	19.09	15.10
2021	—	R 9.80	28.86	21.66	R 21.98	14.39	81.25	22.09	8.03	20.84	20.84	19.32	20.84
2022	—	R 11.76	36.02	33.36	R 22.79	26.19	97.37	28.76	13.92	29.45	29.44	20.00	29.44
2023	—	12.11	32.62	27.89	16.69	20.91	105.48	25.47	11.45	25.39	25.38	21.39	25.38
	Expenditures in million dollars												
1970	(s)	—	22.0	137.5	21.1	97.4	50.0	1,946.6	30.9	2,305.5	2,305.6	—	2,305.6
1975	(s)	—	22.8	542.6	44.6	306.2	78.9	3,982.0	256.2	5,233.3	5,233.3	—	5,233.3
1980	—	—	57.5	1,993.2	12.4	1,098.5	166.3	8,622.3	618.1	12,568.4	12,568.4	—	12,568.4
1985	—	—	66.4	2,010.2	13.0	2,383.1	191.6	9,174.4	547.0	14,385.8	14,409.6	—	14,409.6
1990	—	(s)	39.4	2,261.9	10.9	2,931.6	244.4	9,568.7	477.3	15,534.3	15,552.3	—	15,552.3
1995	—	1.0	27.2	2,965.1	14.2	1,759.9	246.0	10,127.7	244.4	15,384.7	15,385.6	—	15,385.6
2000	—	4.2	33.4	4,889.1	12.8	3,645.4	280.3	14,590.3	522.4	23,973.7	23,977.9	1.9	23,979.8
2005	—	19.1	47.9	10,312.0	36.8	5,827.0	359.0	24,712.5	974.6	42,269.9	42,288.9	6.0	42,294.9
2006	—	18.8	55.7	13,009.0	43.7	6,694.9	435.8	28,910.6	1,085.0	50,234.6	50,253.4	5.2	50,258.6
2007	—	18.2	58.9	14,020.6	34.4	6,733.4	483.6	32,009.3	1,609.9	54,950.1	54,968.3	5.6	54,974.0
2008	—	22.7	57.5	17,530.5	74.6	9,261.9	524.9	36,929.5	1,276.9	65,655.7	65,678.4	5.9	65,684.3
2009	—	10.6	35.6	R 10,673.1	44.9	4,337.8	480.0	26,386.5	982.6	R 42,940.5	R 42,951.1	7.0	R 42,958.1
2010	—	12.6	79.1	R 13,940.7	15.5	4,170.8	951.1	31,650.6	1,390.2	R 52,197.9	R 52,210.5	7.3	R 52,217.8
2011	—	15.5	108.0	R 19,137.3	13.7	5,885.5	1,112.4	39,749.1	1,811.4	R 67,817.5	R 67,833.0	6.9	R 67,839.9
2012	—	22.4	115.6	R 19,422.5	11.0	5,891.0	1,066.1	40,848.9	1,452.5	R 68,807.6	R 68,830.0	7.4	R 68,837.4
2013	—	R 29.9	107.6	R 20,425.5	15.5	5,867.7	1,123.3	40,915.6	1,371.4	R 69,826.6	R 69,856.5	6.2	R 69,862.7
2014	—	R 41.9	75.5	R 22,312.0	36.3	5,459.8	1,268.6	40,845.0	1,362.6	R 71,359.7	R 71,401.7	8.9	R 71,410.6
2015	—	R 42.9	48.2	R 15,423.5	R 21.0	3,515.1	1,320.0	29,580.6	728.6	R 50,636.9	R 50,679.8	9.6	R 50,689.4
2016	—	R 36.4	44.4	R 12,856.0	R 23.3	2,886.3	1,211.4	27,130.9	782.5	R 44,934.8	R 44,971.2	14.4	R 44,985.6
2017	—	R 17.4	56.3	R 15,115.3	R 27.8	3,571.6	1,147.5	31,084.1	1,105.5	R 52,108.0	R 52,125.4	14.9	R 52,140.3
2018	—	R 17.4	58.2	R 19,667.9	R 17.0	R 4,712.8	1,222.2	34,848.5	1,120.2	R 61,646.8	R 61,664.2	15.1	R 61,679.3
2019	—	R 15.8	53.6	R 19,081.1	R 13.4	R 4,670.6	R 1,263.5	32,736.0	1,117.5	R 58,935.7	R 58,951.5	12.0	R 58,963.5
2020	—	R 11.0	43.3	R 13,630.2	R 5.7	R 1,813.5	R 1,074.6	22,667.2	672.9	R 39,907.4	R 39,918.3	11.3	R 39,929.6
2021	—	R 9.4	56.0	R 18,951.2	R 7.9	R 3,605.3	R 1,249.7	36,047.9	1,305.3	R 61,223.3	R 61,232.7	11.9	R 61,244.6
2022	—	R 15.2	72.4	R 30,130.9	R 26.9	R 7,404.4	R 1,609.3	48,309.0	2,317.8	R 89,870.8	R 89,886.1	12.3	R 89,898.3
2023	—	11.4	62.2	24,730.8	20.9	6,564.4	1,270.7	43,439.8	1,583.5	77,672.4	77,683.8	12.3	77,696.1

[a] Transportation use of natural gas as vehicle fuel only.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET7. Electric power sector price and expenditure estimates, selected years, 1970-2023, Texas

Year	Coal	Natural gas [a]	Petroleum: Distillate fuel oil	Petroleum: Petroleum coke	Petroleum: Residual fuel oil	Petroleum: Total	Nuclear fuel	Biomass: Wood and waste [b]	Electricity imports [c]	Total energy [d]
	Prices in dollars per million Btu									
1970	—	0.24	0.63	—	0.47	0.51	—	0.65	1.92	0.25
1975	0.23	0.76	2.03	—	1.89	1.89	—	0.92	3.89	0.73
1980	1.21	1.84	3.83	—	2.59	3.35	—	1.74	—	1.65
1985	1.59	3.15	5.57	—	4.36	4.90	—	0.79	9.34	2.44
1990	1.45	2.10	5.78	—	3.50	5.15	0.56	0.35	8.37	1.69
1995	1.34	1.89	3.74	0.76	1.90	1.29	0.56	0.70	—	1.47
2000	1.23	4.16	6.53	0.42	3.99	3.08	0.45	0.67	16.78	2.50
2005	1.34	7.90	10.45	0.72	6.91	1.80	0.38	2.28	16.53	4.07
2006	1.49	6.39	12.53	0.90	7.09	1.90	0.38	2.32	17.32	3.46
2007	1.63	6.62	16.35	1.41	8.14	3.10	0.46	2.42	18.25	3.63
2008	1.88	8.71	21.01	2.89	8.11	4.63	0.48	2.66	18.28	4.62
2009	1.87	3.88	12.88	1.27	—	1.86	0.55	2.20	12.10	2.55
2010	1.84	4.57	16.90	2.59	—	5.11	0.64	2.40	13.31	2.81
2011	1.87	4.27	22.00	3.08	13.07	6.72	0.67	2.44	11.53	2.74
2012	1.88	2.93	23.00	1.99	14.83	15.65	0.73	2.21	9.51	2.23
2013	1.97	3.85	22.44	1.95	—	10.84	0.77	2.26	11.49	2.63
2014	1.99	4.50	19.31	—	—	19.31	0.72	2.73	13.31	2.92
2015	1.97	2.79	13.12	—	—	13.12	0.72	2.62	—	2.23
2016	1.80	2.59	10.66	—	—	10.66	0.71	2.54	—	2.04
2017	1.74	3.09	12.39	—	—	12.39	0.71	2.40	9.18	2.20
2018	1.76	3.08	15.89	—	—	15.89	0.68	2.22	10.74	2.35
2019	1.99	2.34	14.41	—	—	14.41	0.65	2.33	9.20	2.01
2020	2.04	2.10	10.73	—	—	10.73	0.62	1.80	8.38	1.88
2021	2.16	8.98	13.98	—	—	13.98	0.73	2.39	12.82	5.69
2022	2.30	R 6.51	25.04	—	—	25.04	0.59	2.69	19.84	R 4.50
2023	2.08	2.54	20.90	—	—	20.90	0.59	2.93	18.72	2.19
	Expenditures in million dollars									
1970	—	266.5	0.2	—	0.3	0.5	—	0.7	0.2	267.8
1975	26.9	1,050.0	0.9	—	20.6	21.5	—	0.9	1.0	1,100.2
1980	811.7	2,727.1	25.1	—	10.7	35.9	—	1.4	—	3,576.1
1985	1,694.0	3,907.0	25.1	—	24.2	49.3	—	2.5	0.2	5,653.0
1990	1,848.1	2,467.8	24.3	—	5.6	29.9	94.0	1.2	(s)	4,441.0
1995	1,739.6	2,337.9	11.6	11.3	0.7	23.7	211.4	0.3	—	4,312.8
2000	1,809.8	6,693.0	81.6	7.2	10.1	98.9	175.4	0.6	0.1	8,777.8
2005	2,081.6	11,906.1	19.2	11.2	1.3	31.7	152.6	6.2	4.4	14,182.6
2006	2,290.1	9,587.0	17.6	15.1	2.5	35.1	162.7	6.3	4.7	12,085.9
2007	2,562.7	9,976.0	22.8	16.7	2.3	41.8	199.7	10.2	10.0	12,800.4
2008	2,949.3	12,830.8	23.4	30.5	0.3	54.2	202.4	12.9	59.9	16,109.6
2009	2,768.4	5,494.2	10.1	18.5	—	28.6	240.6	9.7	18.5	8,560.0
2010	2,866.1	6,284.7	19.5	14.0	—	33.5	274.5	12.3	13.6	9,484.6
2011	3,137.2	6,341.3	33.7	19.8	(s)	53.4	278.5	15.4	3.2	9,829.1
2012	2,785.6	4,535.7	31.1	1.4	2.4	35.0	292.6	18.9	2.7	7,670.3
2013	3,104.8	5,605.0	22.9	2.6	—	25.5	307.0	18.4	0.4	9,061.1
2014	3,108.4	6,584.1	22.2	—	—	22.2	297.7	28.7	0.6	10,041.8
2015	2,604.3	4,676.6	15.6	—	—	15.6	295.8	28.4	—	7,620.8
2016	2,361.2	4,096.0	9.3	—	—	9.3	312.4	22.7	—	6,801.5
2017	2,510.7	4,358.1	9.8	—	—	9.8	288.4	18.0	0.3	7,185.3
2018	2,070.7	5,211.0	10.1	—	—	10.1	292.2	17.3	213.7	7,815.0
2019	1,956.0	4,271.4	7.8	—	—	7.8	279.8	14.9	2.2	6,532.2
2020	1,766.3	3,720.9	5.6	—	—	5.6	268.6	9.4	4.4	5,775.2
2021	2,081.8	14,914.8	32.4	—	—	32.4	306.1	14.0	5.6	17,354.7
2022	2,128.5	R 11,969.3	82.4	—	—	82.4	255.5	24.6	10.0	R 14,470.3
2023	1,668.9	5,206.4	58.1	—	—	58.1	250.2	18.3	4.3	7,206.2

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[c] Electricity imported from Canada and Mexico.
[d] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET1. Primary energy, electricity, and total energy price and expenditure estimates, selected years, 1970-2023, Utah

Year	Primary energy														Electric power sector [i,k,l]	Electricity [m]	Total energy [h,i,j]
	Coal			Natural gas [a]	Petroleum							Nuclear fuel	Biomass				
	Coking coal	Steam coal	Total		Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total		Wood and waste [g,h]	Total [h,i,j,k]			
	Prices in dollars per million Btu																
1970	0.43	0.29	0.39	0.57	1.09	1.82	0.76	2.75	0.39	1.14	1.68	—	1.28	1.02	0.25	5.31	1.31
1975	1.38	0.55	0.92	1.07	2.61	3.80	2.12	4.52	1.71	2.57	3.30	—	1.62	2.04	0.51	7.06	2.59
1980	1.97	1.15	1.34	2.33	6.54	5.42	6.59	9.80	3.70	5.52	7.58	—	2.81	4.05	1.20	13.11	5.79
1985	1.93	1.38	1.47	4.01	6.68	8.93	6.25	9.09	3.86	6.74	7.98	—	3.29	4.28	1.39	19.05	7.25
1990	1.84	1.18	1.24	4.17	8.02	9.04	5.75	9.09	2.67	5.90	8.03	—	4.59	3.55	1.19	16.09	7.18
1995	1.97	1.08	1.14	3.37	7.58	7.94	4.84	9.26	1.86	5.40	7.85	—	3.74	3.58	1.13	15.63	7.02
2000	1.66	1.02	1.06	4.88	10.29	12.74	7.38	12.36	2.67	5.58	10.53	—	3.50	4.75	1.11	14.27	8.72
2005	—	1.19	1.19	8.22	16.80	18.00	13.21	18.10	5.32	9.80	16.53	—	5.86	7.45	1.34	17.44	13.73
2006	—	1.27	1.27	8.81	19.35	20.82	14.99	20.46	5.00	13.00	18.96	—	6.08	8.88	1.64	17.63	15.88
2007	—	1.39	1.39	7.19	20.83	23.39	16.39	22.50	8.69	16.19	20.85	—	7.05	9.00	1.96	18.88	16.51
2008	—	1.41	1.41	7.36	27.14	26.93	23.72	26.38	12.44	15.64	25.73	—	8.16	10.25	2.07	19.12	18.70
2009	—	1.59	1.59	6.42	17.54	20.97	13.97	19.27	7.41	19.81	18.08	—	4.58	7.85	1.82	19.94	15.03
2010	—	1.71	1.71	6.25	22.04	22.50	17.59	23.58	9.11	R 26.89	R 22.55	—	5.11	9.21	2.05	20.45	R 17.04
2011	—	1.80	1.80	6.50	28.37	26.57	23.97	29.05	—	R 29.75	R 28.28	—	5.91	R 11.64	2.07	20.98	R 20.30
2012	—	1.95	1.95	5.86	29.00	21.49	24.48	29.79	—	R 28.93	R 28.80	—	5.71	R 11.91	2.09	23.10	R 21.17
2013	—	2.05	2.05	6.29	28.20	22.18	23.27	29.20	15.47	R 30.52	R 28.21	—	6.15	R 11.45	2.30	23.97	R 20.67
2014	—	2.11	2.11	6.82	27.64	24.54	21.30	28.48	14.74	R 31.35	R 27.50	—	R 6.29	R 11.59	2.51	24.57	R 21.02
2015	—	1.96	1.96	6.40	19.06	14.86	12.64	20.83	9.07	R 28.88	R 19.62	—	R 6.85	R 9.04	2.10	25.13	R 17.24
2016	—	1.95	1.95	6.00	16.30	14.32	10.10	18.57	—	R 25.29	R 17.08	—	R 5.95	R 8.63	2.09	25.65	R 15.79
2017	—	1.97	1.97	R 6.52	19.21	20.20	12.32	20.98	—	23.33	19.44	—	R 6.95	9.75	2.17	25.32	16.93
2018	—	2.03	2.03	R 6.13	22.99	20.55	16.08	24.08	9.91	27.42	22.52	—	R 8.51	R 10.97	2.26	24.16	18.48
2019	—	1.99	1.99	5.47	21.58	17.33	15.84	22.99	—	R 28.80	21.66	—	R 8.40	10.31	2.22	24.25	17.48
2020	—	2.05	2.05	R 5.46	17.61	13.91	10.81	19.73	—	R 26.80	R 18.26	—	R 5.98	9.06	2.16	24.35	15.91
2021	—	1.99	1.99	R 6.41	24.18	20.27	15.73	27.61	11.34	R 31.96	R 24.89	—	R 7.11	11.62	2.57	24.55	19.71
2022	—	2.17	2.17	8.80	35.90	21.99	28.14	34.42	18.84	R 38.39	33.81	—	R 11.33	R 16.52	3.78	25.89	R 25.03
2023	—	2.56	2.56	10.46	31.09	18.14	22.39	31.23	16.79	36.93	29.80	—	10.27	16.68	4.46	26.58	23.79
	Expenditures in million dollars																
1970	22.7	7.6	30.4	61.5	32.4	5.8	7.6	177.5	10.3	17.2	250.8	—	0.6	343.3	-6.4	92.0	428.9
1975	71.7	35.2	106.9	113.6	137.5	13.5	22.4	357.3	43.5	31.2	605.5	—	1.0	827.0	-26.2	186.9	987.6
1980	77.9	147.7	225.6	255.6	319.7	22.5	96.4	799.6	74.8	76.9	1,390.0	—	2.1	1,873.3	-141.2	469.3	2,201.4
1985	64.8	228.5	293.3	439.9	222.3	45.4	133.0	775.5	1.7	94.1	1,272.1	—	3.5	2,009.1	-208.0	830.7	2,631.8
1990	60.8	393.2	454.0	419.7	334.6	34.1	171.0	798.8	2.0	68.5	1,408.9	—	6.7	2,289.3	-371.4	831.0	2,748.9
1995	52.2	361.3	413.5	439.5	373.8	42.5	154.3	1,000.6	0.7	90.2	1,662.1	—	5.7	2,520.8	-362.9	967.5	3,125.4
2000	44.9	383.0	427.9	682.6	636.5	82.0	322.1	1,536.5	0.3	98.9	2,676.3	—	11.1	3,797.9	-399.4	1,110.5	4,509.1
2005	—	482.2	482.2	1,100.5	1,341.1	97.8	554.0	2,319.5	4.7	121.2	4,438.3	—	10.6	6,033.9	-517.8	1,464.1	6,980.2
2006	—	484.7	484.7	1,379.3	1,941.6	108.3	642.6	2,685.4	5.6	129.0	5,512.5	—	11.0	7,388.5	-654.6	1,560.8	8,294.6
2007	—	543.4	543.4	1,357.8	1,920.8	125.6	658.5	3,014.7	13.2	125.0	5,857.9	—	12.8	7,773.3	-842.3	1,763.0	8,693.9
2008	—	557.3	557.3	1,471.9	2,217.9	137.1	875.4	3,374.2	31.3	150.2	6,786.0	—	17.7	8,833.7	-902.2	1,809.9	9,741.4
2009	—	580.0	580.0	1,198.0	R 1,302.5	87.3	455.6	2,483.5	5.4	191.7	R 4,526.0	—	8.2	R 6,312.5	-733.3	1,846.2	R 7,425.5
2010	—	608.3	608.3	1,184.8	R 1,618.2	90.4	501.8	2,958.7	0.5	R 314.0	R 5,483.7	—	10.1	R 7,287.7	-802.9	1,925.4	R 8,410.2
2011	—	622.7	622.7	1,216.2	R 2,530.6	133.4	655.8	3,760.6	—	R 368.0	R 7,448.3	—	11.3	R 9,299.0	-777.2	2,032.3	R 10,554.0
2012	—	629.5	629.5	1,063.6	R 2,472.5	92.0	639.7	3,803.7	—	R 358.2	R 7,366.1	—	10.6	R 9,070.2	-749.4	2,303.4	R 10,624.1
2013	—	727.6	727.6	1,264.7	R 2,492.9	111.2	589.5	3,854.3	0.2	R 338.2	R 7,386.2	—	12.8	R 9,391.3	-906.1	2,462.0	R 10,947.2
2014	—	726.3	726.3	R 1,346.3	R 2,418.3	120.5	581.6	3,813.4	2.0	R 340.2	R 7,275.9	—	R 13.6	R 9,363.4	-983.2	2,487.0	R 10,867.2
2015	—	646.5	646.5	R 1,205.1	R 1,571.5	61.9	379.1	2,925.1	0.3	R 334.6	R 5,272.4	—	R 20.4	R 7,145.0	-789.1	2,554.6	R 8,910.6
2016	—	525.3	525.3	R 1,214.3	R 1,339.0	61.2	341.6	2,679.3	—	R 297.8	R 4,718.8	—	R 18.8	R 6,477.5	-667.5	2,605.2	R 8,415.1
2017	—	542.2	542.2	R 1,238.8	R 1,666.4	84.0	444.0	3,050.5	—	291.6	R 5,536.6	—	R 19.5	R 7,337.3	-665.9	2,603.9	R 9,275.3
2018	—	555.2	555.2	R 1,299.8	R 2,080.7	101.4	R 786.2	3,495.8	0.2	308.2	R 6,772.5	—	R 25.8	R 8,654.8	-742.7	2,539.4	R 10,451.5
2019	—	530.1	530.1	R 1,280.1	R 1,870.1	98.4	R 674.5	3,445.4	—	R 325.5	R 6,414.0	—	R 25.3	R 8,249.5	-732.3	2,535.1	R 10,052.4
2020	—	499.8	499.8	R 1,237.6	R 1,594.5	75.4	R 322.6	2,733.4	—	R 319.7	R 5,045.6	—	R 15.7	R 6,798.7	-666.8	2,592.9	R 8,724.7
2021	—	550.3	550.3	R 1,496.9	R 2,132.5	118.9	R 657.5	4,038.7	0.1	R 338.8	R 7,286.5	—	R 17.4	R 9,351.1	-895.0	2,696.1	R 11,152.2
2022	—	515.7	515.7	R 2,192.1	R 3,495.5	170.7	R 1,285.6	5,022.6	0.1	R 488.6	R 10,463.1	—	R 29.1	R 13,200.0	-1,193.4	2,904.3	R 14,910.9
2023	—	447.0	447.0	2,722.7	2,971.9	150.5	981.7	4,802.1	0.1	402.3	9,308.5	—	31.4	12,509.6	-1,159.9	2,973.8	14,323.6

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[l] Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
[m] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET2. Total end-use energy price and expenditure estimates, selected years, 1970-2023, Utah

Year	Primary energy											Electricity [k]	Total energy [h,i,j]
			Petroleum							Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g,h]	Total [h,i,j]		
	Prices in dollars per million Btu												
1970	0.41	0.58	1.09	1.82	0.76	2.75	0.49	1.14	1.80	1.28	1.09	5.31	1.31
1975	1.24	1.08	2.61	3.80	2.12	4.52	1.72	2.57	3.31	1.62	2.26	7.06	2.59
1980	1.74	2.35	6.54	5.42	6.59	9.80	3.70	5.52	7.59	2.81	5.03	13.11	5.79
1985	1.77	4.01	6.69	8.93	6.25	9.09	3.94	6.74	7.99	3.29	5.64	19.05	7.25
1990	1.64	4.16	8.05	9.04	5.75	9.09	2.67	5.90	8.04	4.59	5.79	16.09	7.18
1995	1.46	3.46	7.60	7.94	4.84	9.26	1.86	5.40	7.86	3.74	5.63	15.63	7.02
2000	1.37	4.97	10.33	12.74	7.38	12.36	2.67	5.58	10.54	5.71	7.73	14.27	8.72
2005	1.84	8.36	16.83	18.00	13.21	18.10	5.32	9.80	16.53	8.57	13.00	17.44	13.73
2006	1.93	9.45	19.38	20.82	14.99	20.46	5.00	13.00	18.97	8.75	15.53	17.63	15.88
2007	1.91	7.90	20.84	23.39	16.39	22.50	8.69	16.19	20.85	9.46	16.00	18.88	16.51
2008	1.96	7.76	27.17	26.93	23.72	26.38	12.44	15.64	25.74	12.75	18.61	19.12	18.70
2009	2.43	7.52	17.55	20.97	13.97	19.27	7.41	19.81	18.08	8.73	13.90	19.94	15.03
2010	2.15	6.93	22.07	22.50	17.59	23.58	9.11	R 26.89	R 22.56	9.65	R 16.24	20.45	R 17.04
2011	2.52	7.15	28.40	26.57	23.97	29.05	—	R 29.75	R 28.29	13.20	R 20.14	20.98	R 20.30
2012	2.67	6.93	29.02	21.49	24.48	29.79	—	R 28.93	R 28.81	14.30	R 20.69	23.10	R 21.17
2013	2.30	7.08	28.22	22.18	23.27	29.20	15.47	R 30.52	R 28.22	14.52	R 19.88	23.97	R 20.67
2014	2.36	7.80	27.66	24.54	21.30	28.48	14.74	R 31.35	R 27.50	R 14.54	R 20.16	24.57	R 21.02
2015	2.31	7.96	19.07	14.86	12.64	20.83	9.07	R 28.88	R 19.63	R 9.89	R 15.31	25.13	R 17.24
2016	2.19	7.47	16.32	14.32	10.10	18.57	—	R 25.29	R 17.09	R 8.49	R 13.47	25.65	R 15.79
2017	2.31	R 7.44	19.23	20.20	12.32	20.98	—	23.33	19.45	R 9.81	14.99	25.32	16.93
2018	2.33	R 7.40	23.00	20.55	16.08	24.08	9.91	27.42	22.52	R 10.65	R 17.19	24.16	18.48
2019	2.53	R 6.49	21.60	17.33	15.84	22.99	—	R 28.80	21.67	R 10.47	15.98	24.25	17.48
2020	2.32	R 6.76	17.63	13.91	10.81	19.73	—	R 26.80	18.27	R 7.95	13.88	24.35	15.91
2021	2.19	R 7.42	24.20	20.27	15.73	27.61	11.34	R 31.96	24.90	R 9.28	18.54	24.55	19.71
2022	2.56	R 9.12	R 35.93	21.99	28.14	34.42	18.84	R 38.39	33.82	R 14.92	R 24.83	25.89	R 25.03
2023	3.85	11.80	31.11	18.14	22.39	31.23	16.79	36.93	29.80	13.72	23.15	26.58	23.79
	Expenditures in million dollars												
1970	27.9	60.5	32.4	5.8	7.6	177.5	7.5	17.2	248.0	0.6	336.9	92.0	428.9
1975	84.1	111.8	137.4	13.5	22.4	357.3	42.0	31.2	603.9	1.0	800.8	186.9	987.6
1980	98.0	245.8	317.3	22.5	96.4	799.6	73.4	76.9	1,386.2	2.1	1,732.1	469.3	2,201.4
1985	88.7	438.8	220.5	45.4	133.0	775.5	1.1	94.1	1,269.7	3.5	1,801.1	830.7	2,631.8
1990	89.9	415.0	331.9	34.1	171.0	798.8	2.0	68.5	1,406.3	6.7	1,917.9	831.0	2,748.9
1995	72.1	420.0	371.9	42.5	154.3	1,000.6	0.7	90.2	1,660.2	5.7	2,157.9	967.5	3,125.4
2000	75.7	640.4	632.5	82.0	322.1	1,536.5	0.3	98.9	2,672.3	10.1	3,398.5	1,110.5	4,509.1
2005	62.5	1,012.1	1,335.5	97.8	554.0	2,319.5	4.7	121.2	4,432.7	8.8	5,516.1	1,464.1	6,980.2
2006	32.0	1,191.2	1,930.4	108.3	642.6	2,685.4	5.6	129.0	5,501.4	9.3	6,733.8	1,560.8	8,294.6
2007	40.6	1,028.5	1,913.3	125.6	658.5	3,014.7	13.2	125.0	5,850.5	11.3	6,930.9	1,763.0	8,693.9
2008	38.8	1,101.6	2,207.9	137.1	875.4	3,374.2	31.3	150.2	6,776.0	15.1	7,931.5	1,809.9	9,741.4
2009	39.2	1,013.5	R 1,297.3	87.3	455.6	2,483.5	5.4	191.7	R 4,520.8	5.7	R 5,579.3	1,846.2	R 7,425.5
2010	35.5	966.8	R 1,609.9	90.4	501.8	2,958.7	0.5	R 314.0	R 5,475.4	7.2	R 6,484.8	1,925.4	R 8,410.2
2011	34.7	1,042.5	R 2,518.6	133.4	655.8	3,760.6	—	R 368.0	R 7,436.3	8.2	R 8,521.7	2,032.3	R 10,554.0
2012	36.1	920.3	R 2,463.1	92.0	639.7	3,803.7	—	R 358.2	R 7,356.7	7.7	R 8,320.8	2,303.4	R 10,624.1
2013	33.8	1,061.5	R 2,487.0	111.2	589.5	3,854.3	0.2	R 338.2	R 7,380.3	9.6	R 8,485.2	2,462.0	R 10,947.2
2014	32.8	R 1,067.0	R 2,413.4	120.5	581.6	3,813.4	2.0	R 340.2	R 7,270.9	9.5	R 8,380.2	2,487.0	R 10,867.2
2015	35.0	R 1,034.2	R 1,568.6	61.9	379.1	2,925.1	0.3	R 334.6	R 5,269.6	R 17.2	R 6,356.0	2,554.6	R 8,910.6
2016	28.8	R 1,050.7	R 1,335.3	61.2	341.6	2,679.3	—	R 297.8	R 4,715.1	R 15.4	R 5,810.0	2,605.2	R 8,415.1
2017	25.6	R 1,098.0	R 1,660.8	84.0	444.0	3,050.5	—	291.6	R 5,530.9	R 16.9	R 6,671.5	2,603.9	R 9,275.3
2018	20.3	R 1,102.3	R 2,073.6	101.4	R 786.2	3,495.8	0.2	308.2	R 6,765.4	R 24.1	R 7,912.1	2,539.4	R 10,451.5
2019	22.0	R 1,064.4	R 1,863.4	98.4	R 674.5	3,445.4	—	R 325.5	R 6,407.2	R 23.5	R 7,517.2	2,535.1	R 10,052.4
2020	16.5	R 1,060.8	R 1,589.3	75.4	R 322.6	2,733.4	—	R 319.7	R 5,040.4	R 14.2	R 6,131.8	2,592.9	R 8,724.7
2021	17.0	R 1,144.5	R 2,125.1	118.9	R 657.5	4,038.7	0.1	R 338.8	R 7,279.1	R 15.6	R 8,456.1	2,696.1	R 11,152.2
2022	18.9	R 1,506.7	R 3,486.2	170.7	R 1,285.6	5,022.6	0.1	R 488.6	R 10,453.8	R 27.1	R 12,006.6	2,904.3	R 14,910.9
2023	27.1	1,993.5	2,963.9	150.5	981.7	4,802.1	0.1	402.3	9,300.6	28.6	11,349.7	2,973.8	14,323.6

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. · Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2023, Utah

Year	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
	Prices in dollars per million Btu									
1970	0.76	0.91	1.28	2.27	2.62	1.97	0.72	0.96	6.69	1.60
1975	1.33	1.28	2.84	5.77	5.16	4.09	1.43	1.45	8.84	2.35
1980	3.02	2.51	6.89	8.68	—	7.95	3.66	2.66	16.92	4.63
1985	3.46	4.52	7.25	9.25	8.67	8.88	4.14	4.63	22.80	7.69
1990	3.02	4.85	7.20	9.19	5.98	8.34	4.75	4.94	20.90	8.43
1995	2.21	4.45	6.39	9.50	6.15	8.14	3.86	4.50	20.34	8.29
2000	2.62	5.90	8.80	13.15	9.10	12.14	5.88	6.10	18.43	9.34
2005	3.56	9.21	15.84	17.95	15.20	17.80	9.20	9.51	22.03	13.10
2006	3.73	10.42	18.00	20.03	21.25	19.91	10.60	10.79	22.26	14.19
2007	3.89	8.94	19.71	22.56	23.30	22.38	11.71	9.45	23.90	13.89
2008	—	8.47	24.06	26.95	28.85	26.84	14.42	9.21	24.19	13.54
2009	—	8.55	15.62	20.58	24.09	20.34	10.83	9.00	24.85	13.67
2010	—	7.85	20.03	23.30	26.15	23.09	12.78	8.27	25.52	13.39
2011	—	8.12	25.86	27.08	26.86	27.00	15.36	8.71	26.27	13.77
2012	—	8.32	26.53	24.75	28.14	24.90	17.11	8.82	29.10	15.45
2013	—	8.15	25.89	24.48	27.82	24.55	16.76	8.67	30.39	15.08
2014	—	9.07	24.59	29.04	27.68	28.76	16.34	9.67	31.20	16.37
2015	—	9.29	14.68	21.56	16.96	21.02	11.26	9.63	31.90	16.89
2016	—	8.73	13.19	20.53	13.52	19.86	9.62	9.02	32.29	16.32
2017	—	8.67	17.74	24.09	16.91	23.77	10.76	9.25	32.10	16.25
2018	—	8.67	19.91	25.08	24.43	24.78	11.90	9.33	30.51	15.84
2019	—	7.47	19.20	21.84	22.84	21.73	11.46	8.09	30.48	14.41
2020	—	7.81	15.77	19.03	14.84	18.86	9.47	8.10	30.59	15.05
2021	—	8.58	18.84	25.16	23.44	24.69	11.37	8.97	30.57	R 15.98
2022	—	10.02	29.11	28.05	30.58	28.11	R 17.58	R 10.63	31.78	17.19
2023	—	12.84	26.65	25.91	26.55	25.96	16.07	13.24	32.82	19.13
	Expenditures in million dollars									
1970	1.2	37.9	1.1	4.3	0.1	5.4	0.1	44.7	38.5	83.2
1975	1.2	72.8	5.9	8.8	0.1	14.8	0.3	89.2	75.2	164.4
1980	3.5	158.0	4.5	8.2	—	12.7	1.6	175.8	179.9	355.7
1985	4.5	285.3	2.8	15.8	0.5	19.1	2.9	311.8	310.1	621.8
1990	3.7	229.4	5.8	10.6	0.2	16.5	5.9	255.5	302.9	558.4
1995	0.5	232.1	2.7	5.4	0.1	8.2	4.9	245.6	349.9	595.5
2000	0.4	344.9	4.1	21.0	0.2	25.2	8.6	379.1	409.6	788.7
2005	0.3	563.6	2.4	38.0	0.1	40.5	7.5	611.9	568.7	1,180.6
2006	0.3	661.4	3.0	49.6	0.2	52.8	7.6	722.1	625.2	1,347.3
2007	0.2	571.7	3.2	50.1	0.3	53.6	9.3	634.8	713.6	1,348.5
2008	—	593.8	2.4	69.0	0.2	71.5	12.8	678.1	725.3	1,403.4
2009	—	583.4	2.1	50.8	0.1	53.0	4.8	641.2	739.9	1,381.1
2010	—	543.2	2.3	39.5	0.1	41.9	6.0	591.2	769.1	1,360.3
2011	—	591.4	3.5	55.6	(s)	59.2	7.0	657.6	802.0	1,459.6
2012	—	520.3	4.0	39.5	(s)	43.5	6.5	570.3	912.3	1,482.7
2013	—	602.7	2.7	51.4	(s)	54.2	8.3	665.2	974.8	1,640.0
2014	—	592.1	2.9	50.7	(s)	53.6	8.2	653.9	954.2	1,608.2
2015	—	569.2	1.9	32.7	(s)	34.6	14.7	618.5	992.3	R 1,610.8
2016	—	583.0	2.0	31.7	(s)	33.8	13.0	629.8	1,032.3	1,662.1
2017	—	603.6	2.3	59.9	(s)	62.3	14.3	680.2	1,041.8	1,722.0
2018	—	609.4	3.0	63.2	(s)	66.2	R 20.9	696.5	1,011.4	R 1,708.0
2019	—	593.8	2.6	66.7	(s)	69.3	R 20.5	R 683.7	1,013.0	R 1,696.7
2020	—	604.7	1.6	35.0	(s)	36.7	R 11.4	R 652.7	1,100.7	R 1,753.4
2021	—	643.9	2.4	39.3	(s)	41.7	R 12.6	R 698.3	1,142.2	R 1,840.5
2022	—	825.7	3.8	62.8	(s)	66.6	R 23.0	R 915.3	1,230.2	R 2,145.4
2023	—	1,106.7	3.8	58.0	0.1	61.9	23.6	1,192.2	1,268.5	2,460.8

[a] Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2023, Utah

Year	Primary energy										Electricity [j]	Total energy [g,h,i]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f,g]	Total [g,h,i]		
	Prices in dollars per million Btu											
1970	0.29	0.63	1.06	1.18	0.71	2.75	0.27	0.86	0.72	0.73	5.32	1.79
1975	0.74	1.60	2.49	2.23	2.35	4.52	1.55	2.22	1.43	1.94	7.15	3.27
1980	1.07	5.12	6.42	4.17	5.82	9.80	3.69	5.11	3.66	4.16	13.22	7.48
1985	1.28	4.57	6.03	8.07	8.67	9.09	3.94	6.74	4.14	4.31	20.09	11.53
1990	1.23	3.95	5.81	8.22	5.98	9.09	2.51	6.32	4.75	3.80	17.34	9.33
1995	0.86	3.42	4.79	7.94	6.15	9.26	1.86	5.31	3.86	3.46	16.80	8.80
2000	1.07	4.68	7.24	11.83	9.10	12.36	2.67	8.71	5.88	4.94	15.01	9.38
2005	1.83	7.81	14.15	17.04	15.20	18.10	5.32	15.67	9.20	8.49	17.78	12.53
2006	1.92	9.09	16.66	19.83	21.25	20.46	5.00	17.75	7.29	9.76	18.01	13.47
2007	1.90	7.61	18.06	22.30	23.30	22.50	—	19.69	7.21	8.77	19.16	13.53
2008	—	7.29	24.10	25.47	28.85	26.38	—	24.73	14.42	9.01	19.53	13.65
2009	—	7.23	14.25	19.94	24.09	19.27	—	16.02	10.83	8.13	20.39	13.61
2010	—	6.52	18.32	20.39	26.15	23.58	9.11	19.16	12.78	7.69	20.95	13.57
2011	—	6.78	24.37	25.58	26.86	29.05	—	24.97	15.36	8.82	21.55	14.32
2012	—	6.70	25.01	18.98	28.14	29.79	—	23.78	17.11	8.75	23.61	15.69
2013	—	6.79	24.54	20.09	27.82	29.20	—	23.13	16.76	8.65	24.38	15.47
2014	—	7.38	23.16	21.51	27.68	28.48	14.74	22.54	16.34	R 9.26	25.01	16.39
2015	—	7.62	13.64	11.14	16.96	20.83	—	15.29	R 6.44	8.67	25.27	16.55
2016	—	7.11	11.49	11.02	13.52	18.57	—	13.72	R 5.70	8.00	25.66	15.99
2017	—	7.09	14.08	14.59	16.91	20.98	—	R 16.68	R 7.42	8.25	25.34	15.91
2018	—	7.07	17.71	16.02	24.43	24.08	—	19.52	R 7.52	8.60	24.12	R 15.56
2019	—	6.06	16.15	12.27	22.84	22.99	—	17.50	R 8.53	7.40	24.20	14.42
2020	—	6.29	10.95	11.45	14.84	19.73	—	13.98	R 5.58	7.27	24.24	14.42
2021	—	7.04	18.53	18.63	23.44	27.61	—	21.05	R 6.11	9.13	23.83	15.49
2022	—	8.53	28.93	19.76	30.58	34.42	—	26.78	R 10.45	11.24	24.58	16.94
2023	—	11.32	22.91	15.40	26.55	31.23	—	21.37	9.85	12.96	24.93	17.99
	Expenditures in million dollars											
1970	0.3	6.0	3.2	1.5	0.2	2.9	1.4	9.2	(s)	15.5	34.3	49.8
1975	1.6	9.2	18.8	2.3	0.4	5.0	10.7	37.2	(s)	48.0	60.5	108.4
1980	4.6	1.8	38.4	2.6	1.1	4.1	24.4	70.7	(s)	77.2	141.7	218.9
1985	5.9	41.7	17.0	9.2	0.9	4.2	1.1	32.5	0.1	80.2	315.0	395.2
1990	6.1	69.8	12.3	6.3	0.2	4.6	1.2	24.5	0.6	101.0	318.9	419.9
1995	1.3	97.7	10.7	3.0	(s)	1.0	0.1	14.9	0.7	114.6	370.4	485.0
2000	1.3	153.9	15.4	12.6	0.2	1.4	0.3	30.0	1.4	186.6	447.8	634.5
2005	1.8	283.5	28.3	36.5	1.0	2.3	0.1	68.1	1.2	354.6	571.2	925.8
2006	1.5	327.2	42.2	22.4	0.7	2.6	(s)	67.9	1.4	398.0	599.2	997.2
2007	0.9	276.6	47.2	32.7	0.5	2.9	—	83.3	1.7	362.6	669.3	1,031.9
2008	—	291.1	59.0	44.6	0.4	3.4	—	107.3	2.0	400.3	685.5	1,085.8
2009	—	280.3	43.1	24.7	0.3	2.5	—	70.6	0.7	351.5	712.0	1,063.5
2010	—	262.7	48.7	25.8	0.4	3.0	(s)	77.8	0.8	341.3	741.0	1,082.3
2011	—	285.1	74.0	54.3	0.1	3.7	—	132.1	0.9	418.1	775.4	1,193.6
2012	—	247.5	94.2	21.4	0.1	3.8	—	119.6	0.9	368.0	870.2	1,238.2
2013	—	295.2	R 86.3	38.1	0.1	3.9	—	R 128.4	1.0	R 424.6	915.6	R 1,340.2
2014	—	294.2	R 78.4	42.6	0.1	3.6	1.6	R 126.3	1.0	R 421.5	943.1	R 1,364.6
2015	—	285.1	R 29.1	21.0	(s)	42.6	—	92.6	R 2.2	R 380.0	1,001.5	R 1,381.5
2016	—	290.3	R 35.6	14.2	0.1	39.6	—	R 89.3	R 2.1	R 381.7	1,012.5	R 1,394.2
2017	—	305.4	R 39.0	14.4	(s)	45.3	—	R 98.8	R 2.3	R 406.5	1,014.8	R 1,421.3
2018	—	312.2	R 43.2	25.5	0.1	52.6	—	R 121.4	R 2.8	R 436.5	994.4	R 1,430.8
2019	—	300.6	R 43.3	20.0	(s)	50.8	—	R 114.1	R 2.7	R 417.3	979.5	R 1,396.8
2020	—	290.1	24.3	27.4	(s)	43.8	—	95.6	R 2.4	388.1	942.5	1,330.6
2021	—	324.1	R 52.6	57.9	0.1	61.8	—	172.3	R 2.6	R 499.0	992.4	R 1,491.4
2022	—	424.6	R 83.5	68.3	0.1	81.1	—	233.0	R 3.6	661.3	1,079.4	1,740.7
2023	—	587.7	72.8	72.9	0.1	73.9	—	219.7	4.4	811.9	1,134.7	1,946.6

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[g] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[j] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: Expenditure totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2023, Utah

	Primary energy													
	Coal				Petroleum						Biomass			
	Coking coal	Steam coal	Total	Natural gas [a]	Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e,f]	Total [f,g,h]	Electricity [i]	Total energy [f,g,h]
Year	Prices in dollars per million Btu													
1970	0.43	0.29	0.40	0.32	0.66	1.25	2.75	0.60	0.78	0.77	1.73	0.46	3.75	0.57
1975	1.38	0.74	1.26	0.73	2.18	2.42	4.52	1.78	2.03	2.08	1.73	1.38	5.39	1.61
1980	1.97	1.07	1.77	2.08	5.49	4.54	9.80	3.71	4.44	4.65	1.49	2.76	10.22	3.49
1985	1.93	1.28	1.77	3.01	6.43	9.06	9.09	3.94	5.59	6.33	1.49	3.16	14.36	4.53
1990	1.84	1.23	1.64	3.33	6.31	9.16	9.09	2.51	3.91	5.56	1.75	3.00	11.15	4.24
1995	1.97	0.86	1.48	2.20	5.47	7.64	9.26	1.86	4.10	5.26	1.62	2.67	10.91	4.01
2000	1.66	1.07	1.37	3.74	7.08	12.70	12.36	2.67	4.08	6.40	1.22	3.36	9.82	4.49
2005	—	1.83	1.83	6.96	14.78	19.68	18.10	5.32	6.87	12.52	1.65	7.20	12.43	8.36
2006	—	1.92	1.92	7.59	17.51	22.75	20.46	5.00	8.60	15.48	1.73	10.02	12.34	10.62
2007	—	1.90	1.90	6.01	19.10	25.46	22.50	8.69	10.53	17.25	1.73	8.85	13.26	10.03
2008	—	1.96	1.96	6.79	25.08	30.41	26.38	12.44	10.09	20.01	1.73	10.34	13.45	11.17
2009	—	2.43	2.43	5.37	14.61	26.78	19.27	7.41	15.87	15.50	1.73	8.09	14.11	9.86
2010	—	2.15	2.15	5.32	18.93	23.72	23.58	9.11	R 22.67	R 21.21	1.73	R 9.65	14.46	R 11.06
2011	—	2.52	2.52	5.29	25.54	27.84	29.05	—	R 24.31	R 25.37	2.41	R 12.05	14.94	R 12.92
2012	—	2.67	2.67	4.49	25.65	19.96	29.79	—	R 23.70	R 24.88	2.41	R 11.75	16.47	R 13.15
2013	—	2.30	2.30	4.97	25.19	21.30	29.20	15.47	R 24.93	R 25.25	2.41	R 12.15	17.20	R 13.68
2014	—	2.36	2.36	5.62	23.97	22.98	28.48	14.74	R 25.72	R 24.69	3.06	R 12.65	17.82	R 14.21
2015	—	2.31	2.31	5.67	14.89	10.61	20.83	9.07	R 23.14	R 18.32	3.06	R 9.56	18.08	R 12.10
2016	—	2.19	2.19	5.28	11.98	10.47	18.57	—	R 19.67	R 15.39	3.06	R 8.39	18.54	R 11.37
2017	—	2.31	2.31	5.28	14.78	14.04	20.98	—	17.91	16.42	3.13	9.11	17.97	11.66
2018	—	2.33	2.33	5.09	18.50	15.46	24.08	9.91	21.47	19.81	2.68	10.71	17.29	12.66
2019	—	2.53	2.53	4.77	16.61	11.70	22.99	—	R 23.13	19.24	2.57	10.14	17.52	12.36
2020	—	2.32	2.32	4.86	11.68	10.87	19.73	—	R 21.39	R 15.96	2.51	9.10	17.30	11.69
2021	—	2.19	2.19	5.18	18.75	18.01	27.61	11.34	R 25.54	R 21.74	2.46	R 11.40	18.14	R 13.50
2022	—	2.56	2.56	7.62	29.41	19.10	34.42	18.84	R 31.17	R 29.74	R 3.11	R 16.51	20.04	R 17.55
2023	—	3.85	3.85	9.54	23.93	14.72	31.23	16.79	29.89	26.22	3.11	15.91	20.48	17.27
	Expenditures in million dollars													
1970	22.7	3.6	26.4	16.5	6.0	0.1	3.8	6.0	10.0	25.9	0.4	69.2	19.2	88.4
1975	71.7	9.5	81.2	29.9	40.9	2.3	6.3	30.5	20.8	100.9	0.7	212.7	51.2	263.9
1980	77.9	12.0	89.9	86.0	70.9	11.5	8.5	49.1	52.6	192.6	0.4	368.8	147.7	516.5
1985	64.8	13.5	78.3	111.8	37.0	17.6	10.5	(s)	68.6	133.7	0.5	324.3	205.7	530.0
1990	60.8	19.3	80.1	115.8	55.8	15.2	9.5	(s)	38.4	118.9	0.1	315.0	209.3	524.2
1995	52.2	18.1	70.3	88.8	44.0	32.7	15.5	0.6	62.4	155.2	0.1	314.5	247.2	561.7
2000	44.9	29.1	74.0	136.7	71.3	45.8	15.5	(s)	65.4	198.0	0.1	408.8	252.8	661.6
2005	—	60.4	60.4	163.3	279.6	19.5	55.1	4.6	73.7	432.5	0.1	656.3	322.2	978.5
2006	—	30.2	30.2	200.6	374.1	30.8	64.9	5.6	71.5	547.0	0.3	778.1	334.3	1,112.4
2007	—	39.5	39.5	178.5	292.4	39.0	60.6	13.2	65.9	471.2	0.3	689.4	377.5	1,067.0
2008	—	38.8	38.8	215.0	384.4	16.4	65.3	31.3	81.4	578.8	0.3	832.9	396.5	1,229.4
2009	—	39.2	39.2	148.4	161.7	8.5	45.9	5.4	128.5	350.1	0.3	537.9	391.7	929.5
2010	—	35.5	35.5	158.5	172.3	23.8	43.8	0.5	R 226.4	R 466.8	0.4	R 661.1	412.3	R 1,073.4
2011	—	34.7	34.7	162.2	309.0	22.0	57.9	—	R 258.0	R 646.8	0.2	R 844.0	451.7	R 1,295.6
2012	—	36.1	36.1	148.2	344.1	29.8	58.9	—	R 256.3	R 689.1	0.2	R 873.6	517.1	R 1,390.6
2013	—	33.8	33.8	160.2	412.4	19.7	58.0	0.2	R 236.4	R 726.6	0.2	R 920.9	565.8	R 1,486.7
2014	—	32.8	32.8	176.5	441.6	25.1	44.8	0.3	R 236.1	R 747.9	0.3	R 957.4	583.3	R 1,540.7
2015	—	35.0	35.0	174.5	203.5	7.2	43.1	0.3	R 226.3	R 480.4	0.3	R 690.1	555.2	R 1,245.3
2016	—	28.8	28.8	172.4	152.3	13.3	39.0	—	R 197.8	R 402.4	0.3	R 603.9	554.8	R 1,158.7
2017	—	25.6	25.6	183.0	220.4	9.1	44.5	—	194.9	468.9	0.2	677.8	541.4	1,219.2
2018	—	20.3	20.3	174.4	307.3	12.4	52.6	0.2	207.3	579.9	0.3	774.9	528.2	1,303.1
2019	—	22.0	22.0	164.7	245.8	11.1	50.3	—	R 226.0	R 533.3	0.4	R 720.4	537.2	R 1,257.6
2020	—	16.5	16.5	161.3	161.5	12.3	43.8	—	R 223.2	R 440.8	0.4	R 619.0	544.4	R 1,163.4
2021	—	17.0	17.0	170.9	270.0	20.4	60.0	0.1	R 232.3	R 582.8	0.4	R 771.1	556.0	R 1,327.1
2022	—	18.9	18.9	249.4	428.7	38.6	79.2	0.1	R 344.3	R 891.0	R 0.5	R 1,159.8	589.1	R 1,748.9
2023	—	27.1	27.1	292.2	340.6	18.1	72.9	0.1	286.5	718.2	0.5	1,038.0	564.0	1,602.0

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[i] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.
Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET6. Transportation sector energy price and expenditure estimates, selected years, 1970-2023, Utah

Year	Primary energy											Electricity [g]	Total energy [f]
			Petroleum										
	Coal	Natural gas[a]	Aviation gasoline	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Lubricants	Motor gasoline [e]	Residual fuel oil	Total	Total [f]		
	Prices in dollars per million Btu												
1970	0.29	—	2.17	1.32	1.18	0.76	5.08	2.75	0.26	2.28	2.28	—	2.28
1975	0.74	—	3.45	2.97	2.23	2.12	7.48	4.52	1.84	3.97	3.97	—	3.97
1980	—	—	9.02	7.02	4.17	6.59	14.36	9.80	—	8.82	8.82	—	8.82
1985	—	—	9.99	6.82	9.68	6.25	18.18	9.09	—	8.29	8.29	—	8.29
1990	—	6.30	9.32	8.76	10.44	5.75	20.61	9.09	2.92	8.44	8.44	—	8.44
1995	—	4.45	8.36	8.23	11.04	4.84	21.75	9.26	—	8.33	8.32	—	8.32
2000	—	5.44	10.87	11.15	15.45	7.38	23.20	12.36	—	11.15	11.12	10.15	11.12
2005	—	8.64	18.56	17.59	20.94	13.21	35.22	18.10	—	17.15	17.14	21.09	17.14
2006	—	9.98	22.31	20.00	22.67	14.99	43.88	20.46	—	19.48	19.47	21.07	19.47
2007	—	7.89	23.70	21.30	25.08	16.39	47.16	22.50	—	21.26	21.24	21.82	21.24
2008	—	7.61	27.23	27.80	29.59	23.72	55.12	26.38	—	26.47	26.45	22.99	26.45
2009	—	9.56	20.32	18.27	23.65	13.97	56.07	19.27	—	18.36	18.36	24.34	18.36
2010	—	11.09	25.19	22.71	24.30	17.59	58.80	23.58	—	22.76	22.75	25.45	22.75
2011	—	12.52	31.64	29.04	27.25	23.97	69.54	29.05	—	28.70	28.68	27.09	28.68
2012	—	14.37	33.04	29.92	20.16	24.48	72.11	29.79	—	29.45	29.43	28.70	29.43
2013	—	R 14.79	32.71	29.15	21.36	23.27	69.42	29.20	—	28.76	28.74	31.30	28.75
2014	—	R 15.76	33.16	28.94	22.87	21.30	69.44	28.48	—	27.99	27.98	30.30	27.98
2015	—	R 16.00	24.86	20.11	11.75	12.64	67.28	20.83	—	19.88	19.87	29.45	19.88
2016	—	R 15.83	21.62	17.39	11.62	10.10	65.78	18.57	—	17.34	17.34	28.62	17.35
2017	—	R 16.18	24.13	20.41	16.15	12.32	67.25	20.98	—	19.82	R 19.81	30.06	R 19.82
2018	—	R 17.14	27.04	24.24	17.07	16.08	72.37	24.08	—	22.87	22.86	31.04	R 22.87
2019	—	R 15.84	25.57	22.90	12.88	15.84	74.92	22.99	—	22.03	22.03	31.14	R 22.03
2020	—	R 16.72	22.34	18.95	11.62	10.81	75.34	19.73	—	18.66	18.65	31.34	18.66
2021	—	R 18.34	28.86	25.55	20.77	15.73	81.25	27.61	—	25.35	R 25.35	32.86	25.35
2022	—	R 20.61	36.02	37.39	21.23	28.14	97.37	34.42	—	R 34.55	R 34.53	36.27	R 34.53
2023	—	24.36	32.62	32.77	15.84	22.39	105.48	31.23	—	30.52	30.51	36.00	30.52
	Expenditures in million dollars												
1970	(s)	—	1.9	22.1	(s)	7.6	5.0	170.9	(s)	207.5	207.5	—	207.5
1975	(s)	—	2.8	71.7	0.1	22.4	7.2	346.0	0.8	451.0	451.0	—	451.0
1980	—	—	6.3	203.5	0.2	96.4	16.9	787.0	—	1,110.3	1,110.3	—	1,110.3
1985	—	—	4.7	163.7	2.8	133.0	19.4	760.8	—	1,084.5	1,084.8	—	1,084.8
1990	—	(s)	5.0	258.0	2.0	171.0	24.8	784.7	0.9	1,246.3	1,246.4	—	1,246.4
1995	—	1.4	2.7	314.5	1.4	154.3	25.0	984.1	—	1,481.9	1,483.2	—	1,483.2
2000	—	4.8	4.6	541.7	2.5	322.1	28.4	1,519.7	—	2,419.1	2,424.0	0.3	2,424.3
2005	—	1.7	10.0	1,025.3	3.8	554.0	36.4	2,262.2	—	3,891.6	3,893.3	2.0	3,895.3
2006	—	2.0	12.4	1,511.0	5.6	642.6	44.2	2,617.9	—	4,833.7	4,835.6	2.1	4,837.7
2007	—	1.7	9.3	1,570.5	3.8	658.5	49.0	2,951.2	—	5,242.3	5,244.1	2.5	5,246.6
2008	—	1.7	15.1	1,762.1	7.2	875.4	53.2	3,305.5	—	6,018.5	6,020.1	2.6	6,022.7
2009	—	1.5	14.1	R 1,090.4	3.3	455.6	48.7	2,435.1	—	R 4,047.2	R 4,048.7	2.7	R 4,051.4
2010	—	2.4	8.3	R 1,386.6	1.4	501.8	78.8	2,911.9	—	R 4,888.9	R 4,891.2	2.9	R 4,894.1
2011	—	3.8	9.8	R 2,132.1	1.5	655.8	100.1	3,699.0	—	R 6,598.2	R 6,602.0	3.2	R 6,605.2
2012	—	4.3	9.5	R 2,020.8	1.2	639.7	92.4	3,741.0	—	R 6,504.6	R 6,508.9	3.7	R 6,512.6
2013	—	3.5	8.1	R 1,985.5	1.9	589.5	93.6	3,792.4	—	R 6,471.1	R 6,474.5	5.8	R 6,480.3
2014	—	R 4.2	10.5	R 1,890.6	2.2	581.6	93.4	3,765.0	—	R 6,343.1	R 6,347.4	6.3	R 6,353.6
2015	—	R 5.5	7.6	R 1,334.2	1.1	379.1	100.6	2,839.5	—	R 4,662.0	R 4,667.5	5.6	R 4,673.0
2016	—	R 5.0	6.1	R 1,145.4	1.9	341.6	93.8	2,600.7	—	R 4,189.5	R 4,194.6	5.5	R 4,200.1
2017	—	R 6.0	6.6	R 1,399.1	0.5	444.0	90.0	2,960.7	—	R 4,901.0	R 4,907.0	5.8	R 4,912.7
2018	—	R 6.2	8.0	R 1,720.1	0.3	R 786.2	92.8	3,390.5	—	R 5,997.9	R 6,004.1	5.4	R 6,009.6
2019	—	R 5.3	7.7	R 1,571.6	0.6	R 674.5	91.7	3,344.3	—	R 5,690.5	R 5,695.8	5.5	R 5,701.3
2020	—	R 4.8	6.7	R 1,401.9	0.6	R 322.6	R 89.8	2,645.7	—	R 4,467.3	R 4,472.0	5.3	R 4,477.3
2021	—	R 5.6	8.6	R 1,800.1	1.3	R 657.5	R 97.8	3,916.9	—	R 6,482.2	R 6,487.8	5.5	R 6,493.3
2022	—	R 7.0	11.1	R 2,970.2	1.0	R 1,285.6	R 133.1	4,862.2	—	R 9,263.2	R 9,270.2	5.7	R 9,275.9
2023	—	6.8	9.6	2,546.7	1.5	981.7	106.0	4,655.3	—	8,300.7	8,307.6	6.7	8,314.3

[a] Transportation use of natural gas as vehicle fuel only.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET7. Electric power sector price and expenditure estimates, selected years, 1970-2023, Utah

Year	Coal	Natural gas [a]	Petroleum: Distillate fuel oil	Petroleum: Petroleum coke	Petroleum: Residual fuel oil	Petroleum: Total	Nuclear fuel	Biomass: Wood and waste [b]	Electricity imports [c]	Total energy [d]
	Prices in dollars per million Btu									
1970	0.23	0.31	0.32	—	0.26	0.26	—	—	—	0.25
1975	0.48	0.61	2.31	—	1.54	1.59	—	—	—	0.51
1980	1.14	2.00	6.23	—	3.69	5.00	—	—	—	1.20
1985	1.37	4.12	5.67	—	3.71	5.02	—	—	—	1.39
1990	1.17	5.04	5.42	—	—	5.42	—	—	—	1.19
1995	1.09	2.15	5.05	—	—	5.05	—	—	—	1.13
2000	1.01	3.84	6.79	—	—	6.79	—	0.67	—	1.11
2005	1.13	6.92	12.91	—	—	12.91	—	2.28	16.53	1.34
2006	1.24	6.19	15.25	—	—	15.25	—	2.32	17.32	1.64
2007	1.36	5.60	17.53	—	—	17.53	—	2.42	18.25	1.96
2008	1.38	6.38	22.17	—	—	22.17	—	2.66	18.28	2.07
2009	1.55	3.56	14.13	—	—	14.13	—	2.20	12.10	1.82
2010	1.69	4.34	17.81	—	—	17.81	—	2.40	13.31	2.05
2011	1.77	4.19	23.47	—	—	23.47	—	2.44	11.53	2.07
2012	1.92	2.94	23.55	—	—	23.55	—	2.21	9.51	2.09
2013	2.04	3.97	22.44	—	—	22.44	—	2.26	—	2.30
2014	2.10	4.62	20.61	—	—	20.61	—	2.73	13.31	2.51
2015	1.94	2.92	14.72	—	—	14.72	—	2.62	10.54	2.10
2016	1.94	2.65	11.75	—	—	11.75	—	2.54	8.74	2.09
2017	1.96	3.33	14.90	—	—	14.90	—	2.40	9.18	2.17
2018	2.02	3.13	19.21	—	—	19.21	—	2.22	10.74	2.26
2019	1.97	3.07	16.75	—	—	16.75	—	2.33	—	2.22
2020	2.04	2.53	12.80	—	—	12.80	—	1.80	—	2.16
2021	1.99	4.45	18.84	—	—	18.84	—	2.39	—	2.57
2022	2.16	8.18	28.82	—	—	28.82	—	2.69	—	3.78
2023	2.51	7.99	24.65	—	—	24.65	—	2.93	—	4.46
	Expenditures in million dollars									
1970	2.5	1.0	(s)	—	2.8	2.9	—	—	—	6.4
1975	22.8	1.8	0.1	—	1.5	1.6	—	—	—	26.2
1980	127.6	9.8	2.4	—	1.4	3.8	—	—	—	141.2
1985	204.6	1.0	1.8	—	0.6	2.4	—	—	—	208.0
1990	364.1	4.7	2.6	—	—	2.6	—	—	—	371.4
1995	341.4	19.6	1.9	—	—	1.9	—	—	—	362.9
2000	352.2	42.2	4.0	—	—	4.0	—	0.9	—	399.4
2005	419.7	88.4	5.6	—	—	5.6	—	1.8	2.3	517.8
2006	452.7	188.1	11.1	—	—	11.1	—	1.7	0.9	654.6
2007	502.8	329.2	7.5	—	—	7.5	—	1.5	1.3	842.3
2008	518.5	370.3	10.0	—	—	10.0	—	2.6	0.8	902.2
2009	540.8	184.5	5.2	—	—	5.2	—	2.5	0.3	733.3
2010	572.8	218.0	8.3	—	—	8.3	—	3.0	0.8	802.9
2011	588.0	173.7	11.9	—	—	11.9	—	3.2	0.4	777.2
2012	593.4	143.3	9.4	—	—	9.4	—	2.9	0.4	749.4
2013	693.8	203.2	5.9	—	—	5.9	—	3.2	—	906.1
2014	693.5	279.3	4.9	—	—	4.9	—	4.1	1.3	983.2
2015	611.5	170.9	2.8	—	—	2.8	—	3.3	0.6	789.1
2016	496.5	163.6	3.7	—	—	3.7	—	3.4	0.3	667.5
2017	516.5	140.9	5.6	—	—	5.6	—	2.6	0.3	665.9
2018	534.9	197.6	7.1	—	—	7.1	—	1.7	1.5	742.7
2019	508.1	215.6	6.7	—	—	6.7	—	1.8	—	732.3
2020	483.3	176.8	5.2	—	—	5.2	—	1.5	—	666.8
2021	533.3	352.4	7.4	—	—	7.4	—	1.9	—	895.0
2022	496.7	685.4	9.2	—	—	9.2	—	2.0	—	1,193.4
2023	419.9	729.2	7.9	—	—	7.9	—	2.9	—	1,159.9

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[c] Electricity imported from Canada and Mexico.
[d] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET1. Primary energy, electricity, and total energy price and expenditure estimates, selected years, 1970-2023, Vermont

Year	Primary energy														Electric power sector [i,k,l]	Electricity [m]	Total energy [h,i,j]
	Coal			Natural gas [a]	Petroleum							Nuclear fuel	Biomass				
	Coking coal	Steam coal	Total		Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total		Wood and waste [g,h]	Total [h,i,j,k]			
	Prices in dollars per million Btu																
1970	—	0.72	0.72	1.41	1.37	1.99	0.75	3.09	0.66	1.64	1.97	—	0.98	1.89	0.79	6.05	2.37
1975	—	2.35	2.35	1.87	2.77	3.91	2.22	4.69	1.92	3.82	3.63	0.31	1.24	2.39	0.38	10.33	4.33
1980	—	1.96	1.96	5.62	7.01	7.26	6.55	10.12	4.05	9.09	8.41	0.58	2.11	5.55	0.81	14.33	8.97
1985	—	2.57	2.57	5.59	8.04	11.67	6.10	9.53	4.54	8.11	8.80	0.64	1.52	5.89	0.98	20.81	10.11
1990	—	2.99	2.99	4.65	8.00	12.70	6.60	9.66	3.32	10.36	9.12	0.57	2.51	6.09	1.69	24.25	11.24
1995	—	2.56	2.56	5.22	6.91	11.51	4.62	9.81	2.90	6.34	8.51	0.48	2.37	5.68	2.08	27.73	11.21
2000	—	2.29	2.29	5.39	9.52	13.98	7.44	12.36	4.73	9.91	11.16	0.44	2.46	7.90	4.23	30.10	13.60
2005	—	3.34	3.34	9.93	15.81	19.48	12.74	18.43	7.86	14.72	17.12	0.43	4.20	11.47	2.93	32.08	18.66
2006	—	3.72	3.72	11.55	18.73	21.96	14.92	20.90	9.29	18.44	19.83	0.45	4.28	12.29	2.88	33.32	21.03
2007	—	3.81	3.81	12.67	20.57	24.19	16.47	22.91	10.09	17.81	21.67	0.48	4.83	13.65	3.28	35.28	22.90
2008	—	—	—	14.00	26.75	28.45	23.06	27.25	14.29	30.52	26.96	0.47	4.61	15.84	3.03	36.14	27.01
2009	—	—	—	12.75	19.09	25.23	12.87	19.75	10.99	16.05	19.54	0.57	4.31	11.61	2.16	37.38	21.15
2010	—	—	—	11.47	21.39	27.39	16.41	23.65	13.45	R 18.95	R 22.77	0.65	4.85	R 13.52	2.47	38.81	R 23.68
2011	—	—	—	11.46	27.04	29.94	22.95	30.29	17.60	R 21.19	R 28.28	0.70	5.83	16.16	2.28	40.44	R 27.93
2012	—	—	—	11.23	29.07	27.37	23.55	31.28	19.99	R 21.87	R 29.29	0.77	6.09	15.16	4.40	41.68	R 29.08
2013	—	—	—	10.52	R 28.27	27.68	22.59	30.53	19.70	R 21.26	R 28.59	0.84	5.93	15.41	5.32	42.83	28.28
2014	—	—	—	10.51	27.53	29.27	21.02	29.33	18.63	R 22.26	R 28.06	0.80	R 6.20	15.48	5.83	42.70	R 27.71
2015	—	—	—	9.40	19.01	23.38	12.79	20.74	10.30	R 19.70	R 20.27	—	R 5.06	R 15.28	9.35	42.22	R 21.34
2016	—	—	—	8.38	15.95	23.81	10.41	18.66	7.41	R 16.44	R 18.03	—	R 4.32	R 13.59	7.63	42.39	R 19.92
2017	—	—	—	8.48	17.87	28.83	12.30	20.96	10.11	16.08	20.33	—	R 4.72	R 14.90	8.19	42.79	R 21.52
2018	—	—	—	8.17	21.09	28.76	16.27	23.39	13.32	20.12	23.03	—	R 5.30	R 16.58	9.43	44.35	R 23.14
2019	—	—	—	R 7.53	20.11	24.70	15.21	21.92	12.70	R 21.12	21.51	—	R 5.13	R 14.84	8.46	45.02	R 22.16
2020	—	—	—	R 7.06	16.53	21.93	10.58	18.46	9.99	17.55	18.05	—	R 3.04	R 12.79	7.61	47.86	R 21.31
2021	—	—	—	R 8.06	R 20.78	28.20	15.33	25.09	14.71	R 20.42	R 23.57	—	R 3.72	R 17.20	11.46	47.89	R 25.18
2022	—	—	—	R 9.93	R 33.69	29.72	26.99	33.79	24.23	R 26.72	R 32.63	—	R 5.67	R 24.42	17.90	49.81	R 31.81
2023	—	—	—	9.65	29.46	27.22	21.67	29.75	21.94	25.35	28.93	—	5.32	22.53	16.55	51.38	29.76
	Expenditures in million dollars																
1970	—	1.5	1.5	3.8	45.7	4.1	0.5	82.5	3.7	8.8	145.3	—	1.6	152.5	-2.5	53.9	203.9
1975	—	1.7	1.7	7.5	75.0	12.3	2.2	140.2	9.6	11.0	250.3	12.0	2.2	274.7	-15.5	105.6	364.7
1980	—	1.1	1.1	22.2	167.3	18.0	5.6	288.9	12.0	26.5	518.3	18.7	8.6	573.3	-27.8	193.1	738.7
1985	—	5.1	5.1	27.7	214.7	35.1	6.7	291.0	3.5	51.6	602.5	20.4	9.6	675.6	-36.0	285.1	924.7
1990	—	0.6	0.6	31.0	212.8	67.9	6.6	339.8	5.0	25.0	657.0	21.9	7.5	769.7	-78.3	390.3	1,081.8
1995	—	0.2	0.2	37.9	215.6	73.0	3.3	368.0	3.9	20.9	684.7	19.5	15.7	851.0	-123.7	482.9	1,210.2
2000	—	0.1	0.1	56.8	292.1	93.7	6.1	539.4	9.2	42.1	982.6	20.9	16.3	1,321.7	-287.3	579.1	1,613.4
2005	—	0.1	0.1	83.4	477.7	165.1	30.5	804.4	14.8	60.0	1,552.5	18.2	39.0	1,815.0	-162.0	644.0	2,296.9
2006	—	0.1	0.1	93.0	552.6	189.2	31.8	910.8	15.2	64.2	1,763.9	23.8	41.0	2,070.0	-195.3	658.9	2,533.6
2007	—	0.1	0.1	112.3	585.1	197.6	29.6	984.2	15.1	75.4	1,887.0	23.6	43.8	2,229.0	-211.1	705.9	2,723.7
2008	—	—	—	121.2	683.4	245.1	34.8	1,111.4	20.4	40.9	2,136.0	24.3	41.3	2,480.7	-198.5	707.9	2,990.1
2009	—	—	—	110.5	530.1	233.6	37.3	800.8	13.5	87.3	1,702.5	31.9	51.1	2,003.6	-152.6	701.1	R 2,552.0
2010	—	—	—	97.3	569.1	247.5	15.0	942.6	13.3	R 123.7	R 1,911.1	32.7	64.1	R 2,216.9	-160.7	740.8	R 2,796.9
2011	—	—	—	98.9	R 747.4	251.9	23.9	1,168.5	16.6	R 124.9	R 2,333.2	35.8	70.2	R 2,637.3	-149.8	765.9	R 3,253.4
2012	—	—	—	91.8	R 708.7	247.4	24.6	1,173.3	11.7	R 120.2	R 2,285.9	40.0	64.1	R 2,855.7	-425.3	783.6	R 3,214.0
2013	—	—	—	101.6	R 715.5	284.3	22.0	1,166.1	15.7	R 127.3	R 2,330.9	42.4	82.1	R 3,017.2	-519.2	816.6	R 3,314.6
2014	—	—	—	112.8	R 729.8	314.2	23.3	1,107.9	10.0	R 132.0	R 2,317.2	42.2	R 83.4	R 3,063.3	-568.4	811.5	R 3,306.4
2015	—	—	—	113.8	R 558.2	249.9	13.9	778.0	2.9	R 113.0	R 1,715.8	—	R 87.1	R 2,305.3	-406.2	795.4	R 2,694.5
2016	—	—	—	102.6	R 439.0	219.4	12.4	699.1	1.7	R 83.4	R 1,455.1	—	R 67.7	R 1,892.6	-284.4	797.9	R 2,406.0
2017	—	—	—	104.1	R 487.9	260.0	10.5	783.3	3.2	88.2	R 1,633.1	—	R 72.0	R 2,133.4	-340.2	791.9	R 2,585.0
2018	—	—	—	115.9	R 576.7	313.2	R 14.7	806.3	2.4	96.2	R 1,809.5	—	R 91.2	R 2,373.0	-370.6	837.0	R 2,839.5
2019	—	—	—	R 108.3	R 561.0	254.2	R 14.5	803.3	1.8	R 91.2	R 1,726.0	—	R 83.7	R 2,361.8	-457.8	833.8	R 2,737.8
2020	—	—	—	R 95.8	R 439.6	214.7	R 9.1	560.1	0.9	90.2	R 1,314.6	—	R 29.5	R 1,842.2	-414.0	870.6	R 2,298.7
2021	—	—	—	R 111.3	R 522.7	281.8	18.0	837.2	3.2	R 99.2	R 1,762.0	—	R 39.2	R 2,520.6	-625.8	884.5	R 2,779.3
2022	—	—	—	R 139.5	R 836.9	286.1	R 35.0	1,124.7	5.3	R 127.5	R 2,415.5	—	R 57.3	R 3,540.7	-946.1	929.6	R 3,524.3
2023	—	—	—	125.4	724.3	236.2	29.7	1,006.9	4.0	105.6	2,106.8	—	49.7	2,958.1	-693.9	940.4	3,204.7

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[l] Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
[m] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET2. Total end-use energy price and expenditure estimates, selected years, 1970-2023, Vermont

Year	Primary energy											Electricity [k]	Total energy [h,i,j]
			Petroleum							Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g,h]	Total [h,i,j]		
	Prices in dollars per million Btu												
1970	1.12	1.41	1.39	1.99	0.75	3.09	0.65	1.64	1.99	0.98	1.94	6.05	2.37
1975	2.60	1.98	2.78	3.91	2.09	4.69	1.92	3.82	3.64	1.24	3.50	10.33	4.33
1980	2.14	5.69	7.02	7.26	6.51	10.12	4.05	9.09	8.42	2.16	7.92	14.33	8.97
1985	2.88	5.61	8.06	11.67	6.10	9.53	4.54	8.11	8.81	2.14	8.22	20.81	10.11
1990	2.99	4.92	8.01	12.70	6.60	9.66	3.32	10.36	9.12	2.36	8.63	24.25	11.24
1995	2.56	5.28	6.93	11.51	4.62	9.81	2.90	6.34	8.53	1.82	8.03	27.73	11.21
2000	2.29	5.45	9.60	13.98	7.44	12.36	4.73	9.91	11.20	2.29	10.41	30.10	13.60
2005	3.34	9.93	15.81	19.48	12.74	18.43	7.86	14.72	17.12	4.57	16.05	32.08	18.66
2006	3.72	11.57	18.73	21.96	14.92	20.90	9.29	18.44	19.83	5.01	18.62	33.32	21.03
2007	3.81	12.69	20.58	24.19	16.47	22.91	10.09	17.81	21.67	6.40	20.39	35.28	22.90
2008	—	14.03	26.76	28.45	23.06	27.25	14.30	30.52	26.97	7.93	25.05	36.14	27.01
2009	—	12.81	19.09	25.23	12.87	19.75	11.00	16.05	19.54	6.22	18.16	37.38	21.15
2010	—	11.50	21.40	27.39	16.41	23.65	13.45	R 18.95	22.77	7.22	R 20.76	38.81	R 23.68
2011	—	11.50	27.05	29.94	22.95	30.29	17.59	R 21.19	R 28.28	8.71	R 25.50	40.44	R 27.93
2012	—	11.27	29.08	27.37	23.55	31.28	19.98	R 21.87	R 29.29	9.57	R 26.50	41.68	R 29.08
2013	—	10.55	28.29	27.68	22.59	30.53	19.70	R 21.26	28.59	9.48	25.45	42.83	28.28
2014	—	10.53	27.54	29.27	21.02	29.33	18.63	R 22.26	R 28.06	9.30	R 24.87	42.70	R 27.71
2015	—	9.41	19.01	23.38	12.79	20.74	10.30	R 19.70	R 20.27	6.55	R 17.68	42.22	R 21.34
2016	—	R 8.39	15.96	23.81	10.41	18.66	7.41	R 16.44	R 18.03	5.62	R 15.77	42.39	R 19.92
2017	—	8.48	17.88	28.83	12.30	20.96	10.11	16.08	R 20.33	6.30	R 17.65	42.79	R 21.52
2018	—	8.17	21.10	28.76	16.27	23.39	13.32	20.12	23.04	6.98	R 19.28	44.35	R 23.14
2019	—	7.54	20.12	24.70	15.21	21.92	12.70	R 21.12	21.51	6.71	R 18.13	45.02	R 22.16
2020	—	R 7.06	16.54	21.93	10.58	18.46	9.99	17.55	18.06	R 5.43	R 15.93	47.86	R 21.31
2021	—	R 8.06	20.79	28.20	15.33	25.09	14.71	R 20.42	23.58	R 6.51	R 20.62	47.89	R 25.18
2022	—	R 9.93	R 33.72	29.72	26.99	33.79	24.23	R 26.72	R 32.64	R 10.02	R 28.17	49.81	R 31.81
2023	—	9.65	29.47	27.22	21.67	29.75	21.94	25.35	28.93	9.19	25.34	51.38	29.76
	Expenditures in million dollars												
1970	0.9	3.8	44.2	4.1	0.5	82.5	3.6	8.8	143.7	1.6	150.0	53.9	203.9
1975	1.0	6.8	74.5	12.3	1.5	140.2	9.6	11.0	249.1	2.2	259.2	105.6	364.7
1980	0.6	21.1	165.7	18.0	4.9	288.9	12.0	26.5	516.0	7.8	545.5	193.1	738.7
1985	3.6	27.2	213.5	35.1	6.7	291.0	3.5	51.6	601.4	7.3	639.6	285.1	924.7
1990	0.6	29.4	212.6	67.9	6.6	339.8	5.0	25.0	656.8	4.7	691.5	390.3	1,081.8
1995	0.2	37.6	214.6	73.0	3.3	368.0	3.9	20.9	683.8	5.8	727.3	482.9	1,210.2
2000	0.1	51.8	285.9	93.7	6.1	539.4	9.2	42.1	976.4	6.2	1,034.3	579.1	1,613.4
2005	0.1	83.1	476.7	165.1	30.5	804.4	14.8	60.0	1,551.6	18.2	1,653.0	644.0	2,296.9
2006	0.1	92.7	551.9	189.2	31.8	910.8	15.2	64.2	1,763.2	18.7	1,874.7	658.9	2,533.6
2007	0.1	112.1	584.3	197.6	29.6	984.2	15.1	75.4	1,886.2	19.4	2,017.8	705.9	2,723.7
2008	—	120.8	682.6	245.1	34.8	1,111.4	20.3	40.9	2,135.2	26.3	2,282.3	707.9	2,990.1
2009	—	110.1	R 529.8	233.6	37.3	800.8	13.4	87.3	1,702.2	38.6	1,851.0	701.1	R 2,552.0
2010	—	97.0	568.7	247.5	15.0	942.6	13.3	R 123.7	R 1,910.6	48.5	R 2,056.1	740.8	R 2,796.9
2011	—	98.6	746.6	251.9	23.9	1,168.5	16.5	R 124.9	R 2,332.2	56.7	R 2,487.5	765.9	R 3,253.4
2012	—	91.7	708.4	247.4	24.6	1,173.3	11.6	R 120.2	R 2,285.5	53.1	R 2,430.3	783.6	R 3,214.0
2013	—	101.4	R 714.5	284.3	22.0	1,166.1	15.7	R 127.3	R 2,329.9	66.7	R 2,498.0	816.6	R 3,314.6
2014	—	112.6	R 728.9	314.2	23.3	1,107.9	10.0	R 132.0	R 2,316.3	R 66.0	R 2,494.9	811.5	R 3,306.4
2015	—	R 113.8	R 557.7	249.9	13.9	778.0	2.9	R 113.0	R 1,715.3	R 70.0	R 1,899.1	795.4	R 2,694.5
2016	—	R 102.6	R 438.6	219.4	12.4	699.1	1.7	R 83.4	R 1,454.6	R 51.0	R 1,608.2	797.9	R 2,406.0
2017	—	104.0	R 486.7	260.0	10.5	783.3	3.2	88.2	R 1,631.9	R 57.2	R 1,793.1	791.9	R 2,585.0
2018	—	115.9	R 576.0	313.2	R 14.7	806.3	2.4	96.2	R 1,808.8	R 77.7	R 2,002.4	837.0	R 2,839.5
2019	—	R 108.3	R 560.8	254.2	R 14.5	803.3	1.8	R 91.2	R 1,725.7	R 70.0	R 1,904.0	833.8	R 2,737.8
2020	—	R 95.8	R 439.4	214.7	R 9.1	560.1	0.9	90.2	R 1,314.4	R 18.0	R 1,428.2	870.6	R 2,298.7
2021	—	R 111.2	R 522.2	281.8	18.0	837.2	3.2	R 99.2	R 1,761.5	R 22.1	R 1,894.8	884.5	R 2,779.3
2022	—	R 139.4	R 835.5	286.1	R 35.0	1,124.7	5.3	R 127.5	R 2,414.1	R 41.1	R 2,594.6	929.6	R 3,524.3
2023	—	125.4	723.6	236.2	29.7	1,006.9	4.0	105.6	2,106.0	32.8	2,264.3	940.4	3,204.7

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. · Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2023, Vermont

Year	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
	Prices in dollars per million Btu									
1970	1.37	1.97	1.51	2.51	1.63	1.56	0.56	1.54	6.68	2.20
1975	2.62	2.62	2.87	4.72	3.16	3.04	1.11	2.94	11.47	4.41
1980	4.42	6.30	7.32	9.28	8.15	7.53	2.85	6.99	15.76	9.20
1985	4.91	6.33	8.08	11.79	8.24	8.46	3.22	7.99	21.20	10.52
1990	4.73	5.89	8.02	13.76	6.50	9.03	2.83	8.36	27.16	12.60
1995	4.53	6.85	6.46	12.97	4.66	7.71	2.30	7.29	30.83	12.82
2000	4.63	8.03	9.51	14.98	10.24	10.68	3.50	10.07	36.04	15.90
2005	5.94	12.15	15.20	20.34	14.93	16.55	5.48	15.04	37.99	20.10
2006	6.20	14.17	18.47	23.26	18.00	19.70	6.31	17.90	39.25	22.81
2007	6.20	15.97	20.62	25.67	22.48	22.09	6.97	19.84	41.46	24.88
2008	—	18.22	25.60	30.60	27.10	27.17	8.59	23.72	42.43	28.36
2009	—	17.20	19.98	28.00	22.11	22.67	6.45	18.92	43.66	24.15
2010	—	16.03	21.55	29.83	25.06	24.71	7.61	19.86	45.64	25.64
2011	—	16.04	26.11	32.43	29.30	28.22	9.15	22.39	47.67	28.18
2012	—	16.53	29.50	31.72	31.36	30.36	10.19	24.06	49.84	30.59
2013	—	15.64	28.11	32.18	31.30	R 29.73	9.98	23.14	50.23	29.23
2014	—	14.43	27.40	33.61	31.70	29.84	9.73	23.16	51.21	R 29.11
2015	—	14.21	18.80	29.72	16.97	22.64	6.71	16.81	50.09	23.13
2016	—	13.82	16.00	30.55	13.53	20.96	5.73	15.79	50.90	R 22.98
2017	—	13.71	17.93	33.33	16.92	R 23.71	6.41	17.79	51.80	R 24.47
2018	—	13.20	19.86	33.88	24.44	R 25.47	7.09	R 18.30	52.81	R 24.69
2019	—	12.68	19.24	28.90	22.82	22.91	6.82	R 17.06	51.92	R 23.35
2020	—	12.69	16.45	26.38	14.82	19.90	5.64	R 17.16	57.25	R 26.63
2021	—	13.47	20.05	31.46	23.41	24.61	6.77	R 20.68	56.44	R 29.39
2022	—	14.88	31.61	33.60	39.14	32.50	R 10.47	R 26.25	58.42	R 34.06
2023	—	16.53	29.43	31.92	34.40	30.47	9.58	25.44	61.02	34.34
	Expenditures in million dollars									
1970	0.5	2.1	34.0	2.8	4.0	40.8	0.5	43.8	27.7	71.5
1975	0.3	3.0	51.9	8.1	4.2	64.2	1.1	68.5	55.8	124.3
1980	0.2	8.1	92.5	10.2	10.6	113.4	4.9	126.6	95.8	222.4
1985	1.2	9.1	116.7	21.9	24.0	162.7	4.0	177.1	111.2	288.3
1990	0.2	12.4	107.1	47.3	7.1	161.5	3.4	177.5	167.6	345.1
1995	(s)	15.7	87.3	49.1	4.8	141.2	3.0	159.9	207.5	367.5
2000	(s)	23.1	135.6	61.0	18.9	215.5	3.4	242.0	250.5	492.6
2005	(s)	37.7	199.7	113.7	32.3	345.7	13.0	396.4	283.7	680.1
2006	(s)	40.8	227.2	121.0	36.2	384.4	13.3	438.5	286.9	725.4
2007	(s)	51.3	257.3	126.8	31.6	415.7	16.2	483.2	306.9	790.1
2008	—	56.3	276.6	151.8	16.7	445.0	22.4	523.7	308.8	832.5
2009	—	55.0	233.4	168.0	21.1	422.5	33.4	510.9	316.1	827.0
2010	—	49.7	208.4	176.6	21.3	406.3	42.3	498.3	331.4	829.6
2011	—	52.0	266.6	160.6	17.3	444.4	49.3	545.7	345.5	891.2
2012	—	50.4	243.1	159.4	9.0	411.5	45.9	507.7	356.3	864.1
2013	—	54.2	R 263.2	193.8	9.0	R 466.0	58.6	R 578.8	364.2	R 943.0
2014	—	56.2	R 279.6	214.3	14.2	R 508.2	57.8	R 622.2	370.7	R 992.8
2015	—	55.8	R 204.6	183.7	6.2	R 394.6	60.7	R 511.0	357.0	R 868.0
2016	—	49.8	R 160.5	169.8	6.6	R 336.9	43.2	R 429.9	357.1	R 787.1
2017	—	49.5	R 184.6	214.2	5.8	R 404.6	R 48.6	R 502.8	357.6	R 860.4
2018	—	55.7	R 209.8	240.6	8.1	R 458.5	R 68.0	R 582.2	381.3	R 963.5
2019	—	54.4	R 221.6	204.2	8.6	R 434.4	R 61.4	R 550.2	368.7	R 918.9
2020	—	50.3	R 177.5	159.7	6.1	R 343.3	R 14.5	R 408.0	421.4	R 829.4
2021	—	52.3	R 194.0	204.5	8.0	R 406.5	R 18.0	R 476.7	418.7	R 895.5
2022	—	60.7	R 304.3	199.4	11.8	R 515.5	R 35.0	R 611.2	435.9	R 1,047.1
2023	—	62.5	283.4	174.2	19.1	476.7	27.2	566.5	453.1	1,019.6

[a] Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2023, Vermont

Year	Primary energy										Electricity [j]	Total energy [g,h,i]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f,g]	Total [g,h,i]		
	Prices in dollars per million Btu											
1970	0.87	1.43	1.11	1.35	0.92	3.09	0.79	1.05	0.56	1.07	6.78	2.15
1975	2.60	2.10	2.46	2.82	2.65	4.69	1.91	2.37	1.11	2.35	11.34	4.42
1980	1.65	6.22	6.48	5.35	6.39	10.12	4.09	5.89	2.85	5.79	15.56	8.80
1985	2.39	5.76	7.16	11.18	8.24	9.53	4.54	7.94	3.22	6.79	24.02	12.11
1990	2.62	5.14	6.85	10.60	6.50	9.66	3.33	7.44	2.83	6.77	25.21	13.63
1995	2.26	5.46	5.22	9.99	4.66	9.81	2.90	6.39	2.30	6.01	29.04	14.72
2000	2.00	6.41	7.82	12.43	10.24	12.36	4.73	8.64	3.50	8.05	31.20	16.53
2005	3.12	9.65	14.29	16.88	14.93	18.43	7.86	14.23	5.48	12.82	33.22	20.71
2006	3.48	11.12	17.15	18.75	18.00	20.90	9.29	16.76	6.31	15.09	34.21	22.71
2007	3.54	12.78	19.08	20.81	22.48	22.91	10.09	19.08	6.97	17.05	36.02	24.58
2008	—	14.24	25.23	24.28	27.10	27.25	14.30	23.78	8.59	20.75	36.61	27.31
2009	—	12.90	17.53	19.58	22.11	19.75	11.00	17.90	6.45	15.98	37.91	24.41
2010	—	11.74	19.29	22.61	25.06	23.65	13.45	20.35	7.61	17.44	39.38	26.26
2011	—	11.81	26.37	26.05	29.30	30.29	17.59	25.87	7.99	21.15	41.02	28.92
2012	—	11.95	27.56	21.78	31.36	31.28	19.98	24.28	8.41	20.20	41.96	28.91
2013	—	7.46	26.43	21.10	31.30	30.53	19.70	R 23.49	8.41	R 16.56	42.97	25.65
2014	—	8.98	25.08	22.72	31.70	29.33	18.63	23.78	R 8.25	R 17.41	42.68	R 25.92
2015	—	7.70	16.25	14.70	16.97	20.74	10.30	15.82	R 6.23	R 12.18	42.62	R 20.85
2016	—	6.47	13.32	13.60	13.53	18.66	7.57	13.83	R 5.40	R 10.02	42.62	R 20.11
2017	—	6.84	15.37	17.72	16.92	20.96	10.32	R 16.65	R 5.99	R 11.10	42.83	R 21.44
2018	—	6.55	19.29	19.21	24.44	23.39	13.32	19.60	R 6.55	R 12.44	44.67	R 21.89
2019	—	5.80	17.96	15.52	22.82	21.92	12.70	17.30	R 6.26	R 10.92	46.84	R 21.42
2020	—	5.20	12.43	14.75	14.82	18.46	9.99	14.12	R 4.97	R 9.48	48.03	R 20.59
2021	—	6.24	19.19	22.15	23.41	25.09	14.94	21.02	R 6.00	R 13.19	48.63	R 23.33
2022	—	8.38	32.17	23.51	39.14	33.79	24.60	28.29	R 8.67	R 17.92	50.66	R 27.42
2023	—	7.24	25.07	19.28	34.40	29.75	22.38	23.11	8.29	14.94	52.75	26.38
	Expenditures in million dollars											
1970	0.3	0.8	5.1	0.7	0.1	0.4	2.1	8.4	(s)	9.5	14.1	23.6
1975	0.6	1.6	9.1	2.2	0.2	0.7	4.5	16.7	(s)	19.0	27.4	46.5
1980	0.3	5.1	23.4	2.7	1.6	1.7	6.1	35.5	0.1	41.0	49.0	90.0
1985	2.1	9.0	24.7	9.6	1.7	2.0	0.7	38.6	0.1	49.8	78.6	128.4
1990	0.4	10.3	26.7	16.7	0.5	2.1	2.5	48.4	0.4	59.5	131.3	190.8
1995	0.1	14.5	21.0	17.4	0.4	0.3	1.3	40.4	0.4	55.5	163.2	218.6
2000	(s)	16.8	47.3	23.3	1.3	0.4	3.0	75.4	0.6	92.9	208.2	301.1
2005	0.1	25.3	71.4	33.2	2.6	0.7	7.1	114.9	2.1	142.4	232.4	374.8
2006	0.1	26.4	80.8	37.2	2.6	0.8	7.6	129.0	2.2	157.7	236.6	394.3
2007	0.1	33.7	84.5	51.3	3.4	0.8	5.5	145.6	2.6	182.0	253.0	435.0
2008	—	35.7	81.9	72.6	0.9	1.0	9.8	166.1	3.4	205.2	255.2	460.4
2009	—	32.2	71.0	57.6	1.7	0.7	6.1	137.2	4.7	174.1	257.5	431.6
2010	—	28.2	74.4	63.9	1.1	0.8	5.0	145.2	5.5	178.9	271.5	450.4
2011	—	29.5	98.4	82.7	1.4	1.0	5.8	189.4	6.8	225.7	281.1	506.8
2012	—	28.0	83.7	81.2	0.5	1.1	4.5	171.0	6.7	205.7	285.4	491.2
2013	—	35.9	R 86.5	80.8	0.5	1.1	4.6	R 173.4	7.6	R 216.9	295.6	R 512.5
2014	—	44.1	R 89.6	91.2	1.1	1.0	2.9	R 185.6	R 7.6	R 237.3	295.7	R 533.0
2015	—	46.7	R 77.5	61.7	0.5	13.7	1.1	R 154.6	R 8.7	R 210.0	292.3	R 502.3
2016	—	41.4	R 44.3	46.8	0.4	12.6	0.9	R 104.9	R 7.2	R 153.6	292.9	R 446.4
2017	—	43.7	R 49.3	37.3	0.4	14.3	1.7	R 103.0	R 8.3	R 154.9	288.8	R 443.8
2018	—	49.8	R 61.0	67.0	0.5	16.5	0.9	R 145.8	R 9.4	R 205.0	305.3	R 510.3
2019	—	44.1	R 57.9	47.4	0.8	15.6	0.5	R 122.2	R 8.2	R 174.5	309.2	R 483.7
2020	—	37.7	R 37.7	51.3	0.6	13.2	0.5	103.2	R 3.1	R 144.1	295.9	R 440.0
2021	—	48.5	R 64.4	73.0	0.6	18.1	1.4	157.4	R 3.8	R 209.8	309.8	R 519.6
2022	—	64.2	R 106.1	82.2	0.8	25.0	2.3	R 216.5	R 5.9	R 286.5	331.3	R 617.8
2023	—	51.5	82.7	59.2	1.4	21.8	1.8	166.8	5.3	223.6	342.6	566.2

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[g] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[j] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: Expenditure totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2023, Vermont

Year	Primary energy												Electricity [i]	Total energy [f,g,h]
	Coal			Natural gas [a]	Petroleum						Biomass	Total [f,g,h]		
	Coking coal	Steam coal	Total		Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e,f]			
	Prices in dollars per million Btu													
1970	—	0.87	0.87	0.85	0.84	1.42	3.09	0.53	1.26	0.97	1.42	0.99	4.52	1.70
1975	—	2.60	2.60	1.44	2.38	3.07	4.69	1.93	3.81	2.64	1.42	2.34	7.61	3.60
1980	—	1.65	1.65	4.94	5.84	5.83	10.12	4.01	9.37	5.99	1.50	4.96	11.37	6.90
1985	—	2.39	2.39	4.91	6.58	12.55	9.53	4.54	6.89	6.98	1.50	5.55	18.40	9.57
1990	—	2.62	2.62	3.57	6.21	11.81	9.66	3.33	11.87	7.26	1.44	5.92	19.39	10.89
1995	—	—	—	3.40	5.30	7.85	9.81	2.90	4.70	5.42	1.39	4.28	22.15	10.41
2000	—	—	—	2.95	7.89	12.38	12.36	4.73	6.91	7.80	1.41	5.35	21.44	10.48
2005	—	—	—	7.62	14.05	19.92	18.43	7.86	9.70	13.88	2.55	11.24	22.79	15.01
2006	—	—	—	9.24	16.56	21.75	20.90	9.29	11.99	16.93	2.48	13.51	24.41	17.05
2007	—	—	—	9.07	18.67	25.61	22.91	10.09	10.93	16.41	1.70	13.89	26.15	18.10
2008	—	—	—	9.55	24.20	32.72	27.25	14.30	20.02	23.76	1.70	17.95	26.94	21.40
2009	—	—	—	7.89	16.82	25.65	19.75	11.00	12.20	14.70	1.70	12.72	26.99	16.76
2010	—	—	—	6.52	19.21	24.23	23.65	13.45	R 15.57	R 17.43	1.70	R 14.54	27.94	R 18.13
2011	—	—	—	6.04	24.27	29.98	30.29	17.59	R 17.23	R 21.16	2.18	R 17.63	28.80	R 20.56
2012	—	—	—	4.83	25.44	24.19	31.28	19.98	R 18.50	R 22.08	2.16	R 17.94	29.25	R 21.08
2013	—	—	—	8.46	24.52	23.27	30.53	19.70	R 18.18	R 21.13	2.09	R 19.23	31.78	R 23.00
2014	—	—	—	6.52	24.32	25.46	29.33	18.63	R 18.81	R 21.50	2.56	R 18.71	29.99	R 22.00
2015	—	—	—	5.37	15.61	14.60	20.74	10.30	R 16.94	R 16.50	2.51	R 14.14	30.10	R 18.95
2016	—	—	—	5.08	12.79	13.11	18.66	7.57	R 13.31	R 13.34	2.72	R 11.42	29.97	R 17.33
2017	—	—	—	4.78	13.92	17.42	20.96	10.32	13.13	14.00	2.58	12.10	29.94	17.35
2018	—	—	—	4.40	18.18	18.90	23.39	13.32	16.67	17.69	3.10	14.68	31.23	19.73
2019	—	—	—	3.99	16.67	15.21	21.92	12.70	R 17.42	R 17.24	3.10	13.98	32.37	19.77
2020	—	—	—	3.35	11.95	14.43	18.46	9.99	R 15.27	13.94	3.10	11.73	32.83	17.77
2021	—	—	—	4.95	16.36	21.81	25.09	14.94	R 17.13	R 17.34	3.10	R 14.71	33.34	R 20.46
2022	—	—	—	6.42	27.87	23.14	33.79	24.60	R 22.05	R 25.12	R 3.05	R 20.96	34.83	R 25.19
2023	—	—	—	5.49	23.95	18.90	29.75	22.38	19.93	22.38	3.05	18.53	33.03	23.10
	Expenditures in million dollars													
1970	—	0.1	0.1	0.9	2.3	0.6	1.1	1.5	3.0	8.5	1.1	10.6	12.1	22.8
1975	—	0.1	0.1	2.2	5.1	1.9	1.9	5.1	4.3	18.3	1.1	21.8	22.3	44.0
1980	—	0.1	0.1	7.9	17.1	5.0	1.0	5.9	8.6	37.6	2.7	48.4	48.4	96.7
1985	—	0.3	0.3	9.1	19.2	3.0	5.8	2.8	19.6	50.4	3.2	63.0	95.3	158.4
1990	—	0.1	0.1	6.6	20.0	3.5	4.1	2.4	10.0	40.0	1.0	47.7	91.4	139.0
1995	—	—	—	7.3	10.1	6.0	4.5	2.6	8.6	31.8	2.3	41.4	112.2	153.6
2000	—	—	—	11.8	17.5	9.4	5.1	6.2	12.0	50.1	2.2	64.1	120.4	184.5
2005	—	—	—	20.1	45.8	17.7	22.5	7.7	12.9	106.6	3.1	129.8	127.8	257.6
2006	—	—	—	25.6	48.9	30.5	28.6	7.6	11.6	127.3	3.1	156.0	135.4	291.4
2007	—	—	—	27.1	42.8	19.1	23.3	9.6	25.3	120.1	0.6	147.8	145.9	293.7
2008	—	—	—	28.8	72.6	18.2	16.0	10.5	7.6	125.0	0.5	154.3	143.8	298.1
2009	—	—	—	22.9	51.8	7.7	11.5	7.3	50.2	128.5	0.5	151.9	127.4	279.3
2010	—	—	—	19.1	61.1	6.9	17.8	8.2	R 82.3	R 176.3	0.8	R 196.1	137.9	R 334.0
2011	—	—	—	17.1	94.9	8.5	22.8	10.7	R 84.9	R 221.8	0.6	R 239.5	139.2	R 378.7
2012	—	—	—	13.3	89.2	6.5	20.1	7.1	R 90.5	R 213.4	0.5	R 227.2	141.9	R 369.1
2013	—	—	—	11.2	70.3	9.6	19.9	11.1	R 97.8	R 208.6	0.6	R 220.4	156.8	R 377.1
2014	—	—	—	12.3	75.6	8.4	18.4	7.1	R 96.9	R 206.3	0.6	R 219.3	145.1	R 364.4
2015	—	—	—	11.2	46.8	4.2	10.0	1.8	R 84.6	R 147.4	0.6	R 159.2	146.0	R 305.2
2016	—	—	—	11.3	40.5	2.6	8.6	0.7	R 56.2	R 108.6	0.5	R 120.4	147.9	R 268.3
2017	—	—	—	10.8	47.3	8.3	9.7	1.1	63.3	129.7	0.3	140.8	145.4	286.2
2018	—	—	—	10.4	63.2	5.6	10.9	1.5	69.1	150.3	0.3	161.0	150.4	311.4
2019	—	—	—	9.8	59.5	2.4	10.0	1.3	63.2	136.4	0.3	146.5	155.9	R 302.5
2020	—	—	—	7.8	47.8	3.6	8.5	0.4	68.2	128.5	0.3	136.6	153.3	289.9
2021	—	—	—	10.4	53.9	4.2	11.4	1.6	R 72.6	R 143.7	0.3	R 154.4	156.0	R 310.4
2022	—	—	—	14.5	92.8	4.4	15.9	2.7	R 92.3	R 208.1	0.3	R 222.9	162.5	R 385.4
2023	—	—	—	11.3	77.8	2.7	14.7	2.1	67.2	164.5	0.3	176.1	144.7	320.8

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[i] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.
Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET6. Transportation sector energy price and expenditure estimates, selected years, 1970-2023, Vermont

Year	Primary energy											Electricity [g]	Total energy [f]
			Petroleum										
	Coal	Natural gas[a]	Aviation gasoline	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Lubricants	Motor gasoline [e]	Residual fuel oil	Total	Total [f]		
	Prices in dollars per million Btu												
1970	0.87	—	2.17	1.43	1.35	0.75	5.08	3.09	0.76	2.94	2.94	—	2.94
1975	2.60	—	3.45	2.90	2.82	2.09	7.48	4.69	1.84	4.49	4.49	—	4.49
1980	—	—	9.02	7.41	5.35	6.51	14.36	10.12	—	9.72	9.72	—	9.72
1985	—	—	9.99	9.30	11.19	6.10	18.18	9.53	—	9.46	9.46	—	9.46
1990	—	—	9.32	9.66	10.72	6.60	20.61	9.66	2.76	9.67	9.67	—	9.67
1995	—	4.24	8.36	8.34	9.71	4.62	21.75	9.81	—	9.46	9.46	—	9.46
2000	—	2.69	10.87	11.79	—	7.44	23.20	12.36	—	12.26	12.26	—	12.26
2005	—	10.28	18.56	18.25	15.84	12.74	35.22	18.43	—	18.23	18.23	—	18.23
2006	—	13.04	22.31	20.53	17.79	14.92	43.88	20.90	—	20.71	20.71	—	20.71
2007	—	12.82	23.70	21.73	19.49	16.47	47.16	22.91	—	22.62	22.62	—	22.62
2008	—	13.73	27.23	29.73	23.35	23.06	55.12	27.25	—	27.68	27.68	—	27.68
2009	—	12.93	20.32	19.42	17.64	12.87	56.07	19.75	—	19.48	19.48	—	19.48
2010	—	12.39	25.19	22.78	20.86	16.41	58.80	23.65	—	23.56	23.56	—	23.56
2011	—	4.25	31.64	29.40	24.73	22.95	69.54	30.29	—	30.19	30.19	—	30.19
2012	—	14.46	33.04	30.52	20.52	23.55	72.11	31.28	—	31.18	31.18	—	31.18
2013	—	R 14.86	32.71	30.18	19.85	22.59	69.42	30.53	—	30.52	30.52	—	30.52
2014	—	R 15.03	33.16	29.65	21.44	21.02	69.44	29.33	—	29.43	29.43	—	29.43
2015	—	R 14.68	24.86	21.40	13.56	12.79	67.28	20.74	—	21.01	21.00	—	21.00
2016	—	R 14.56	21.62	17.63	12.47	10.41	65.78	18.66	6.28	18.51	18.51	—	18.51
2017	—	—	24.13	19.92	15.82	12.30	67.25	20.96	8.88	20.83	20.83	—	20.83
2018	—	—	27.04	23.97	16.99	16.27	72.37	23.39	—	R 23.65	R 23.65	—	R 23.65
2019	—	R —	25.57	23.18	14.25	15.21	74.92	21.92	—	22.31	22.30	—	22.30
2020	—	R —	22.34	20.17	12.92	10.58	75.34	18.46	—	18.95	18.95	—	18.95
2021	—	R —	28.86	23.88	18.57	15.33	81.25	25.09	11.52	24.84	R 24.82	—	R 24.82
2022	—	R —	36.02	38.99	19.25	26.99	97.37	33.79	19.22	R 34.95	34.92	—	34.92
2023	—	—	32.62	33.39	15.99	21.67	105.48	29.75	15.84	30.48	30.46	—	30.46
	Expenditures in million dollars												
1970	(s)	—	0.2	2.9	(s)	0.5	1.5	81.0	(s)	86.0	86.0	—	86.0
1975	(s)	—	0.2	8.5	(s)	1.5	2.1	137.6	(s)	149.9	149.9	—	149.9
1980	—	—	1.1	32.7	(s)	4.9	4.5	286.2	—	329.5	329.5	—	329.5
1985	—	—	1.1	52.9	0.6	6.7	5.2	283.2	—	349.7	349.7	—	349.7
1990	—	—	0.7	58.7	0.4	6.6	6.7	333.6	0.1	406.7	406.7	—	406.7
1995	—	0.1	0.5	96.2	0.5	3.3	6.7	363.1	—	470.4	470.5	—	470.5
2000	—	(s)	2.2	85.4	—	6.1	7.6	533.9	—	635.3	635.3	—	635.3
2005	—	(s)	2.4	159.9	0.5	30.5	9.8	781.3	—	984.4	984.4	—	984.4
2006	—	(s)	1.8	194.9	0.5	31.8	11.9	881.5	—	1,122.5	1,122.5	—	1,122.5
2007	—	(s)	1.9	199.7	0.3	29.6	13.2	960.0	—	1,204.8	1,204.8	—	1,204.8
2008	—	(s)	1.4	251.6	2.6	34.8	14.3	1,094.4	—	1,399.1	1,399.1	—	1,399.1
2009	—	(s)	1.2	173.6	0.3	37.3	13.1	788.6	—	1,014.1	1,014.1	—	1,014.1
2010	—	(s)	1.1	224.8	0.2	15.0	17.9	923.9	—	1,182.9	1,182.9	—	1,182.9
2011	—	(s)	1.3	R 286.7	0.2	23.9	19.9	1,144.6	—	R 1,476.7	R 1,476.7	—	R 1,476.7
2012	—	(s)	1.4	292.4	0.3	24.6	18.8	1,152.1	—	R 1,489.6	1,489.7	—	1,489.7
2013	—	(s)	1.1	R 294.5	0.2	22.0	19.0	1,145.1	—	R 1,481.9	R 1,481.9	—	R 1,481.9
2014	—	(s)	0.7	R 284.2	0.3	23.3	19.1	1,088.5	—	R 1,416.1	R 1,416.2	—	R 1,416.2
2015	—	(s)	0.9	228.8	0.3	13.9	20.7	754.3	—	R 1,018.8	1,018.9	—	1,018.9
2016	—	R 0.1	0.8	R 193.3	0.2	12.4	19.4	678.0	0.2	R 904.2	R 904.3	—	R 904.3
2017	—	—	0.9	R 205.5	0.2	10.5	17.9	759.3	0.4	R 994.6	R 994.6	—	R 994.6
2018	—	—	1.2	242.1	0.1	R 14.7	17.3	778.9	—	R 1,054.2	R 1,054.2	—	R 1,054.2
2019	—	R —	1.1	221.8	0.2	R 14.5	17.4	777.7	—	R 1,032.8	R 1,032.8	—	R 1,032.8
2020	—	R —	0.8	176.4	0.1	R 9.1	14.6	538.4	—	739.4	R 739.4	—	R 739.4
2021	—	R —	1.3	R 209.9	0.1	18.0	16.6	807.7	0.2	R 1,053.9	R 1,053.9	—	R 1,053.9
2022	—	R —	1.7	R 332.3	0.1	R 35.0	20.8	1,083.7	0.3	R 1,473.9	R 1,473.9	—	R 1,473.9
2023	—	—	1.5	279.7	0.1	29.7	16.5	970.3	0.2	1,298.1	1,298.1	—	1,298.1

[a] Transportation use of natural gas as vehicle fuel only.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET7. Electric power sector price and expenditure estimates, selected years, 1970-2023, Vermont

Year	Coal	Natural gas [a]	Petroleum: Distillate fuel oil	Petroleum: Petroleum coke	Petroleum: Residual fuel oil	Petroleum: Total	Nuclear fuel	Biomass: Wood and waste [b]	Electricity imports [c]	Total energy [d]
	Prices in dollars per million Btu									
1970	0.49	—	0.92	—	0.83	0.91	—	—	1.92	0.79
1975	2.05	1.17	2.42	—	1.95	2.41	0.31	—	3.89	0.38
1980	1.73	4.50	6.28	—	—	6.28	0.58	1.74	6.94	0.81
1985	2.03	4.84	5.83	—	—	5.83	0.64	0.79	9.34	0.98
1990	—	2.36	5.53	—	—	5.53	0.57	2.82	8.37	1.69
1995	—	1.95	4.12	—	—	4.12	0.48	2.87	6.21	2.08
2000	—	4.86	6.76	—	—	6.76	0.44	2.57	16.78	4.23
2005	—	10.04	13.14	—	—	13.14	0.43	3.92	16.53	2.93
2006	—	7.70	14.06	—	—	14.06	0.45	3.82	17.32	2.88
2007	—	7.58	15.77	—	—	15.77	0.48	4.04	18.25	3.28
2008	—	9.14	21.16	—	10.31	19.46	0.47	2.66	18.28	3.03
2009	—	5.63	12.53	—	7.60	11.68	0.57	2.20	12.10	2.16
2010	—	5.69	16.46	—	12.61	15.95	0.65	2.40	13.31	2.47
2011	—	5.22	22.15	—	18.76	21.79	0.70	2.44	11.53	2.28
2012	—	4.06	24.11	—	21.27	23.61	0.77	2.21	9.51	4.40
2013	—	5.53	22.00	—	—	22.00	0.84	2.26	11.49	5.32
2014	—	5.94	20.01	—	—	20.01	0.80	2.73	13.31	5.83
2015	—	3.78	16.73	—	—	16.73	—	2.62	10.54	9.35
2016	—	2.97	9.76	—	—	9.76	—	2.54	8.74	7.63
2017	—	3.47	14.05	—	—	14.05	—	2.40	9.18	8.19
2018	—	4.26	15.87	—	—	15.87	—	2.22	10.74	9.43
2019	—	3.65	16.64	—	—	16.64	—	2.33	9.20	8.46
2020	—	2.66	9.58	—	—	9.58	—	1.80	8.38	7.61
2021	—	4.79	16.48	—	—	16.48	—	2.39	12.82	11.46
2022	—	R 7.11	21.71	—	—	21.71	—	2.69	19.84	17.90
2023	—	2.89	21.04	—	—	21.04	—	2.93	18.72	16.55
	Expenditures in million dollars									
1970	0.7	—	1.4	—	0.1	1.6	—	—	0.3	2.5
1975	0.7	0.7	1.2	—	(s)	1.2	12.0	—	1.0	15.5
1980	0.4	1.1	2.3	—	—	2.3	18.7	0.9	4.4	27.8
1985	1.4	0.5	1.1	—	—	1.1	20.4	2.3	10.2	36.0
1990	—	1.7	0.2	—	—	0.2	21.9	2.8	51.7	78.3
1995	—	0.3	0.9	—	—	0.9	19.5	9.9	93.1	123.7
2000	—	5.0	6.3	—	—	6.3	20.9	10.1	245.1	287.3
2005	—	0.3	0.9	—	—	0.9	18.2	20.8	121.8	162.0
2006	—	0.2	0.7	—	—	0.7	23.8	22.3	148.2	195.3
2007	—	0.2	0.8	—	—	0.8	23.6	24.4	162.2	211.1
2008	—	0.3	0.8	—	0.1	0.8	24.3	15.0	158.0	198.5
2009	—	0.4	0.2	—	(s)	0.3	31.9	12.5	107.6	152.6
2010	—	0.3	0.4	—	0.1	0.5	32.7	15.6	111.6	160.7
2011	—	0.3	0.8	—	0.1	0.9	35.8	13.5	99.3	149.8
2012	—	0.2	0.3	—	0.1	0.4	40.0	11.0	373.7	425.3
2013	—	0.2	1.0	—	—	1.0	42.4	15.4	460.2	519.2
2014	—	0.2	0.9	—	—	0.9	42.2	17.4	507.8	568.4
2015	—	0.1	0.4	—	—	0.4	—	17.1	388.6	406.2
2016	—	(s)	0.4	—	—	0.4	—	16.8	267.2	284.4
2017	—	(s)	1.2	—	—	1.2	—	14.8	324.2	340.2
2018	—	(s)	0.7	—	—	0.7	—	13.4	356.4	370.6
2019	—	(s)	0.3	—	—	0.3	—	13.7	443.7	457.8
2020	—	(s)	0.3	—	—	0.3	—	11.5	402.2	414.0
2021	—	(s)	0.6	—	—	0.6	—	17.1	608.1	625.8
2022	—	0.1	1.4	—	—	1.4	—	16.1	928.4	946.1
2023	—	(s)	0.7	—	—	0.7	—	16.9	676.2	693.9

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[c] Electricity imported from Canada and Mexico.
[d] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET1. Primary energy, electricity, and total energy price and expenditure estimates, selected years, 1970-2023, Virginia

Year	Primary energy														Electric power sector [i,k,l]	Electricity [m]	Total energy [h,i,j]
	Coal			Natural gas [a]	Petroleum							Nuclear fuel	Biomass				
	Coking coal	Steam coal	Total		Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total		Wood and waste [g,h]	Total [h,i,j,k]			
	Prices in dollars per million Btu																
1970	0.40	0.42	0.42	0.96	1.14	1.86	0.73	2.85	0.31	1.41	1.49	—	1.19	1.17	0.35	4.91	1.80
1975	—	1.30	1.30	1.71	2.60	3.54	2.03	4.77	1.80	3.06	3.16	0.28	1.46	2.51	1.24	9.63	3.95
1980	1.86	1.70	1.71	3.62	6.84	6.11	6.46	9.97	3.75	6.99	7.49	0.74	2.33	5.21	2.00	15.77	7.95
1985	1.93	1.78	1.79	5.68	7.75	10.10	5.79	9.33	4.26	7.53	8.11	0.55	2.53	5.11	1.18	17.06	8.67
1990	1.80	1.58	1.59	4.62	7.73	11.22	5.53	9.46	3.24	6.32	8.02	0.47	1.12	4.76	1.09	17.70	8.61
1995	1.57	1.50	1.51	4.47	6.70	10.70	3.87	9.14	2.36	6.90	7.75	0.46	1.24	4.43	1.12	18.38	8.75
2000	1.66	1.37	1.38	7.00	9.36	14.31	6.58	11.62	4.08	8.37	10.06	0.43	1.56	5.71	1.26	17.43	10.42
2005	2.91	2.33	2.36	11.58	15.62	20.26	12.84	17.59	6.96	11.60	15.65	0.44	3.13	9.65	2.53	19.45	14.98
2006	3.25	2.45	2.50	11.39	17.69	22.23	14.73	20.01	8.27	14.47	18.30	0.52	3.01	10.88	2.19	20.14	16.63
2007	3.42	2.51	2.57	10.88	18.91	24.55	15.90	21.67	8.52	15.88	19.68	0.52	2.88	11.39	2.61	20.91	17.56
2008	4.29	2.83	2.93	12.49	26.17	29.19	22.73	25.67	12.35	20.93	25.02	0.49	3.35	13.93	2.85	23.50	21.18
2009	5.01	3.19	3.31	8.67	16.58	24.41	12.99	18.40	8.76	18.91	17.36	0.53	3.02	10.11	2.28	26.23	17.56
2010	5.29	3.36	3.53	8.11	20.53	27.19	16.18	21.99	11.62	R 23.61	R 20.85	0.54	3.27	11.79	2.84	25.48	19.13
2011	6.24	3.61	3.91	7.67	26.71	30.45	22.34	27.91	15.12	R 26.54	R 26.67	0.32	3.54	R 14.51	2.60	25.92	R 22.31
2012	6.11	3.72	4.04	5.98	27.49	27.12	23.04	28.58	14.95	R 27.92	R 27.33	0.54	3.29	R 14.44	2.17	26.59	R 22.74
2013	5.35	3.42	3.62	6.73	27.23	26.56	22.07	27.91	14.80	R 28.93	R 26.83	0.71	3.42	R 13.84	2.46	26.25	R 22.13
2014	4.37	3.34	3.46	7.74	26.25	28.44	20.90	26.88	15.72	R 29.13	R 25.89	0.61	R 3.98	R 13.76	3.02	26.89	R 21.79
2015	3.84	3.00	3.11	R 5.61	18.34	21.49	12.24	19.13	7.86	R 24.52	R 18.10	0.63	3.48	R 9.92	2.35	27.28	R 17.69
2016	3.42	2.92	2.98	4.82	15.41	20.26	9.93	17.45	6.66	R 20.83	R 15.88	0.65	3.22	R 8.66	2.17	26.65	R 16.28
2017	3.76	2.81	2.99	R 5.29	17.74	23.27	11.96	19.42	5.82	21.70	17.89	0.66	3.13	R 9.78	2.20	26.89	R 17.50
2018	4.05	2.77	3.03	R 5.70	20.94	25.56	15.53	21.13	6.92	25.69	R 20.36	0.63	R 3.13	10.97	2.71	27.79	19.05
2019	4.58	3.02	3.57	4.98	20.30	22.77	14.23	19.69	7.87	R 25.04	19.14	0.59	3.13	10.37	2.18	27.89	18.51
2020	3.94	2.68	3.11	4.14	16.97	21.90	10.34	16.56	6.37	R 23.45	16.34	0.57	R 2.61	8.23	1.74	26.84	R 16.69
2021	3.67	2.66	3.04	R 5.80	R 21.64	26.66	13.99	23.08	9.70	R 26.22	21.83	0.56	R 3.47	11.56	2.58	26.79	R 19.72
2022	6.01	3.68	4.51	R 8.75	R 33.46	28.10	24.88	29.64	14.00	R 33.61	29.88	0.57	R 4.15	R 16.21	R 4.28	31.50	R 25.57
2023	6.46	5.57	6.03	5.94	28.74	26.27	20.10	26.71	11.29	29.84	26.32	0.59	4.09	13.93	2.23	31.29	23.81
	Expenditures in million dollars																
1970	0.3	115.4	115.7	126.6	163.6	17.0	44.9	727.8	65.0	80.5	1,098.8	—	16.5	1,357.6	-101.4	494.4	1,750.7
1975	—	220.2	220.2	205.0	344.3	40.3	131.9	1,484.6	462.4	112.9	2,576.4	27.7	19.7	3,048.9	-455.1	1,280.5	3,874.3
1980	33.0	363.6	396.6	548.0	980.1	68.6	444.2	3,092.9	575.1	294.8	5,455.7	92.8	38.9	6,531.9	-726.4	2,581.5	8,387.1
1985	45.7	483.7	529.4	783.7	1,194.1	143.8	357.1	3,086.8	221.1	474.4	5,477.4	129.1	50.5	6,991.5	-512.3	3,343.0	9,822.2
1990	42.7	522.4	565.1	838.9	1,340.9	165.0	489.8	3,495.0	150.5	312.0	5,953.3	118.5	59.9	7,548.1	-555.8	4,374.3	11,366.6
1995	40.8	538.2	578.9	1,216.5	1,189.0	188.6	232.1	3,751.1	73.6	293.9	5,728.3	120.8	110.4	7,754.9	-702.7	5,311.6	12,363.8
2000	49.1	651.5	700.6	1,837.7	2,158.3	321.0	370.8	5,175.2	238.3	404.6	8,668.2	127.2	125.6	11,459.4	-978.4	5,722.1	16,203.1
2005	86.0	997.7	1,083.7	3,517.6	4,118.1	438.5	1,372.4	8,702.6	432.0	604.0	15,667.7	128.8	277.4	20,675.3	-1,990.4	7,223.2	25,908.1
2006	89.9	995.6	1,085.5	3,040.2	4,715.5	424.3	1,570.5	10,070.6	180.2	658.9	17,620.1	150.4	255.8	22,151.9	-1,586.5	7,285.6	27,851.1
2007	109.1	1,067.6	1,176.6	3,427.0	4,875.6	479.6	1,714.7	11,033.5	260.8	663.8	19,027.9	147.7	238.0	24,017.2	-2,053.6	7,903.7	29,867.3
2008	129.9	1,086.9	1,216.8	3,649.9	5,928.7	589.0	2,128.7	12,513.5	315.3	644.0	22,119.2	144.0	285.2	27,415.2	-2,088.0	8,761.5	34,088.7
2009	110.7	996.8	1,107.6	2,673.3	R 3,206.9	518.2	1,155.4	8,828.7	157.2	586.1	R 14,452.6	155.0	208.1	R 18,596.5	-1,566.2	9,630.5	R 26,660.8
2010	166.2	1,056.1	1,222.3	2,996.1	R 3,983.6	592.5	1,822.5	10,742.9	258.5	R 875.0	R 18,274.9	150.5	228.7	R 22,872.5	-2,051.5	9,893.7	R 30,714.7
2011	207.7	920.4	1,128.1	2,774.2	R 4,989.9	651.0	2,444.8	12,776.9	237.0	R 1,019.8	R 22,119.4	86.3	247.3	R 26,355.2	-1,692.3	9,747.7	R 34,410.7
2012	185.8	713.2	899.0	2,426.8	R 5,182.4	495.8	2,471.7	13,400.8	204.6	R 962.4	R 22,717.6	163.5	236.8	R 26,443.8	-1,459.3	9,779.5	R 34,764.1
2013	162.4	889.5	1,051.9	R 2,799.5	R 5,141.4	596.1	2,463.5	13,105.6	129.1	R 881.7	R 22,317.3	217.4	282.3	R 26,668.3	-1,805.6	9,896.8	R 34,759.6
2014	133.0	828.6	961.6	R 3,280.6	R 5,287.3	653.7	2,596.1	12,895.5	138.1	R 906.6	R 22,477.3	193.8	R 387.8	R 27,301.1	-2,249.4	10,284.3	R 35,336.1
2015	114.0	608.0	722.0	R 2,860.2	R 3,515.5	498.5	1,593.2	9,236.2	73.3	R 888.3	R 15,804.9	185.0	R 345.9	R 19,917.9	-1,831.5	10,425.5	R 28,511.9
2016	101.2	564.1	665.3	R 2,684.5	R 2,846.1	433.0	1,464.9	8,543.0	50.1	R 736.1	R 14,073.1	202.8	R 306.0	R 17,931.6	-1,821.0	10,210.9	R 26,321.5
2017	111.6	365.9	477.5	R 3,072.7	R 3,229.1	483.8	1,805.4	9,557.4	40.2	782.7	R 15,898.6	211.0	R 285.8	R 19,946.4	-1,750.0	10,234.1	R 28,430.5
2018	121.8	330.5	452.3	R 3,704.6	R 4,314.2	585.0	R 2,350.6	10,408.6	31.1	864.5	R 18,554.1	191.7	R 313.4	R 23,217.2	-2,247.1	11,204.5	R 32,174.6
2019	138.2	165.8	304.0	R 3,477.0	R 4,272.6	510.7	R 2,198.3	9,621.6	30.0	R 863.7	R 17,496.9	181.8	R 284.0	R 21,743.8	-1,774.8	11,271.0	R 31,240.0
2020	102.3	132.7	235.0	R 3,027.2	R 3,325.8	486.4	R 916.2	7,235.3	21.0	R 720.9	R 12,705.6	178.7	R 237.7	R 16,384.2	-1,484.7	10,739.8	R 25,639.2
2021	94.8	113.6	208.4	R 3,943.3	R 4,336.5	630.0	R 1,367.8	10,947.7	37.2	R 864.2	R 18,183.4	166.5	R 332.7	R 22,834.4	-1,970.3	11,449.6	R 32,313.6
2022	145.3	160.2	305.5	R 5,650.4	R 6,570.0	689.3	R 3,051.7	13,431.9	52.9	R 1,134.3	R 24,930.0	168.7	R 407.3	R 31,461.9	R -3,117.7	14,215.0	R 42,559.3
2023	156.6	125.5	282.1	3,798.4	5,376.0	571.2	2,301.1	13,044.3	33.4	976.5	22,302.6	182.6	369.6	26,935.3	-1,629.0	14,127.9	39,434.2

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[l] Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
[m] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.
Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET2. Total end-use energy price and expenditure estimates, selected years, 1970-2023, Virginia

Year	Primary energy											Electricity [k]	Total energy [h,i,j]
			Petroleum							Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g,h]	Total [h,i,j]		
	Prices in dollars per million Btu												
1970	0.48	0.98	1.16	1.86	0.73	2.85	0.31	1.51	1.71	1.19	1.44	4.91	1.80
1975	1.51	1.72	2.61	3.54	2.03	4.77	1.72	3.06	3.52	1.46	3.06	9.63	3.95
1980	1.71	3.63	6.87	6.11	6.46	9.97	3.48	6.99	8.01	2.33	6.52	15.77	7.95
1985	1.77	5.70	7.78	10.10	5.79	9.33	4.24	7.53	8.16	2.53	6.92	17.06	8.67
1990	1.69	4.74	7.76	11.22	5.53	9.46	3.15	6.32	8.09	1.22	6.52	17.70	8.61
1995	1.68	4.85	6.77	10.70	3.87	9.14	2.42	6.90	7.85	1.33	6.27	18.38	8.75
2000	1.61	7.42	9.43	14.31	6.58	11.62	4.05	8.37	10.24	1.63	8.54	17.43	10.42
2005	2.56	12.25	15.79	20.26	12.84	17.59	7.15	11.60	16.01	3.09	13.76	19.45	14.98
2006	2.81	12.57	17.74	22.23	14.73	20.01	8.38	14.47	18.37	3.05	15.66	20.14	16.63
2007	2.97	12.02	19.04	24.55	15.90	21.67	8.97	15.88	19.89	3.12	16.61	20.91	17.56
2008	3.80	13.26	26.26	29.19	22.73	25.67	12.95	20.93	25.16	3.70	20.48	23.50	21.18
2009	4.29	10.61	16.68	24.41	12.99	18.40	9.24	18.91	17.45	3.34	14.79	26.23	17.56
2010	4.33	9.76	20.68	27.19	16.18	21.99	11.75	R 23.61	R 20.97	3.61	R 17.11	25.48	19.13
2011	4.98	9.55	26.81	30.45	22.34	27.91	14.96	R 26.54	R 26.72	3.94	R 21.14	25.92	R 22.31
2012	5.02	8.52	27.55	27.12	23.04	28.58	14.91	R 27.92	R 27.37	3.74	R 21.52	26.59	R 22.74
2013	4.63	8.65	27.30	26.56	22.07	27.91	14.85	R 28.93	R 26.86	3.88	R 20.83	26.25	R 22.13
2014	4.11	8.92	26.44	28.44	20.90	26.88	15.29	R 29.13	R 25.96	R 4.27	R 20.22	26.89	R 21.79
2015	3.69	R 7.89	18.45	21.49	12.24	19.13	8.27	R 24.52	R 18.19	R 3.55	R 14.71	27.28	R 17.69
2016	3.37	R 7.04	15.51	20.26	9.93	17.45	6.36	R 20.83	R 15.93	R 3.29	R 13.06	26.65	R 16.28
2017	3.67	R 7.83	17.85	23.27	11.96	19.42	5.72	21.70	17.93	R 3.23	14.62	26.89	R 17.50
2018	3.90	R 7.79	21.18	25.56	15.53	21.13	6.69	25.69	20.45	R 3.20	R 16.31	27.79	19.05
2019	4.37	R 7.90	20.35	22.77	14.23	19.69	8.05	R 25.04	19.16	R 3.15	15.56	27.89	18.51
2020	3.83	R 7.27	17.00	21.90	10.34	16.56	6.20	R 23.45	16.35	R 2.79	R 13.11	26.84	R 16.69
2021	3.60	R 8.40	R 21.75	26.66	13.99	23.08	9.60	R 26.22	21.86	R 3.51	R 17.22	26.79	R 19.72
2022	5.74	R 10.78	R 33.90	28.10	24.88	29.64	13.74	R 33.61	R 29.96	R 4.35	R 23.37	31.50	R 25.57
2023	6.43	9.68	28.80	26.27	20.10	26.71	11.29	29.84	26.33	4.25	21.00	31.29	23.81
	Expenditures in million dollars												
1970	52.7	125.3	162.1	17.0	44.9	727.8	31.2	78.7	1,061.8	16.5	1,256.2	494.4	1,750.7
1975	110.9	204.4	336.4	40.3	131.9	1,484.6	152.7	112.9	2,258.8	19.7	2,593.8	1,280.5	3,874.3
1980	158.3	540.7	953.0	68.6	444.2	3,092.9	214.1	294.8	5,067.6	38.9	5,805.6	2,581.5	8,387.1
1985	198.5	778.2	1,183.1	143.8	357.1	3,086.8	185.4	474.4	5,430.7	50.5	6,479.2	3,343.0	9,822.2
1990	207.8	812.9	1,322.1	165.0	489.8	3,495.0	118.3	312.0	5,902.3	56.8	6,992.3	4,374.3	11,366.6
1995	163.0	1,096.2	1,174.5	188.6	232.1	3,751.1	51.5	293.9	5,691.8	101.3	7,052.3	5,311.6	12,363.8
2000	150.8	1,666.0	2,120.3	321.0	370.8	5,175.2	150.5	404.6	8,542.4	121.8	10,481.0	5,722.1	16,203.1
2005	229.9	2,873.5	4,033.8	438.5	1,372.4	8,702.6	198.7	604.0	15,350.1	231.3	18,684.9	7,223.2	25,908.1
2006	227.4	2,573.9	4,681.1	424.3	1,570.5	10,070.6	137.8	658.9	17,543.3	221.0	20,565.5	7,285.6	27,851.1
2007	250.1	2,664.3	4,788.0	479.6	1,714.7	11,033.5	152.5	663.8	18,832.1	217.1	21,963.6	7,903.7	29,867.3
2008	317.1	2,813.1	5,835.4	589.0	2,128.7	12,513.5	230.9	644.0	21,941.6	255.3	25,327.2	8,761.5	34,088.7
2009	284.4	2,227.6	R 3,129.4	518.2	1,155.4	8,828.7	122.4	586.1	R 14,340.2	178.1	R 17,030.3	9,630.5	R 26,660.8
2010	324.2	2,196.7	R 3,902.6	592.5	1,822.5	10,742.9	170.9	R 875.0	R 18,106.5	193.6	R 20,821.0	9,893.7	R 30,714.7
2011	362.4	2,058.8	R 4,936.6	651.0	2,444.8	12,776.9	199.8	R 1,019.8	R 22,028.9	212.9	R 24,662.9	9,747.7	R 34,410.7
2012	345.7	1,785.1	R 5,137.7	495.8	2,471.7	13,400.8	180.8	R 962.4	R 22,649.2	204.5	R 24,984.6	9,779.5	R 34,764.1
2013	305.4	R 2,063.4	R 5,099.8	596.1	2,463.5	13,105.6	113.0	R 881.7	R 22,259.7	234.3	R 24,862.8	9,896.8	R 34,759.6
2014	247.3	R 2,306.6	R 5,092.8	653.7	2,596.1	12,895.5	78.3	R 906.6	R 22,223.1	R 274.9	R 25,051.8	10,284.3	R 35,336.1
2015	180.2	R 1,996.9	3,428.8	498.5	1,593.2	9,236.2	30.3	R 888.3	R 15,675.3	R 234.0	R 18,086.4	10,425.5	R 28,511.9
2016	157.0	R 1,729.4	R 2,812.1	433.0	1,464.9	8,543.0	32.4	R 736.1	R 14,021.4	R 202.8	R 16,110.6	10,210.9	R 26,321.5
2017	161.6	R 1,982.7	R 3,187.4	483.8	1,805.4	9,557.4	32.0	782.7	R 15,848.7	R 203.5	R 18,196.4	10,234.1	R 28,430.5
2018	170.6	R 2,151.6	R 4,220.9	585.0	R 2,350.6	10,408.6	12.6	864.5	R 18,442.3	R 205.7	R 20,970.2	11,204.5	R 32,174.6
2019	186.5	R 2,125.9	R 4,251.0	510.7	R 2,198.3	9,621.6	23.6	R 863.7	R 17,469.0	R 187.6	R 19,969.0	11,271.0	R 31,240.0
2020	136.2	R 1,907.6	R 3,304.7	486.4	R 916.2	7,235.3	16.5	R 720.9	R 12,680.0	R 175.6	R 14,899.4	10,739.8	R 25,639.2
2021	132.5	R 2,369.9	R 4,298.6	630.0	R 1,367.8	10,947.7	33.4	R 864.2	R 18,141.8	R 219.8	R 20,864.0	11,449.6	R 32,313.6
2022	194.8	R 3,048.6	R 6,447.5	689.3	R 3,051.7	13,431.9	49.0	R 1,134.3	R 24,803.6	R 297.3	R 28,344.3	14,215.0	R 42,559.3
2023	203.7	2,557.8	5,350.9	571.2	2,301.1	13,044.3	33.4	976.5	22,277.4	267.4	25,306.3	14,127.9	39,434.2

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. · Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2023, Virginia

Year	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
	Prices in dollars per million Btu									
1970	1.34	1.45	1.37	2.24	1.44	1.44	0.73	1.41	6.11	2.39
1975	2.73	2.20	2.69	4.43	2.99	2.86	1.45	2.54	11.05	5.09
1980	3.85	4.20	7.10	8.07	7.96	7.31	3.70	5.64	17.80	10.05
1985	3.92	6.76	7.89	10.48	7.26	7.92	4.19	7.15	19.49	11.99
1990	3.48	6.47	8.25	13.03	7.34	8.79	3.53	7.38	21.24	13.92
1995	3.35	6.97	6.30	12.55	5.26	7.39	2.87	6.89	22.99	14.61
2000	3.12	9.65	9.48	16.29	8.36	10.70	4.37	9.86	22.04	15.66
2005	5.33	14.54	15.49	22.31	14.97	17.03	6.83	15.09	23.92	19.58
2006	5.05	15.65	17.24	24.60	18.46	19.12	7.87	16.52	24.88	21.07
2007	4.95	14.87	18.35	26.57	20.80	20.87	8.70	16.44	25.62	21.43
2008	—	15.61	23.84	31.34	23.05	26.23	10.72	18.45	28.18	23.78
2009	—	13.36	16.74	26.88	21.65	21.18	8.05	15.11	31.08	23.85
2010	—	12.41	20.01	30.30	24.05	24.29	9.50	15.32	30.63	23.86
2011	—	12.40	27.10	33.29	27.38	29.73	11.42	16.73	31.19	24.97
2012	—	12.00	27.01	32.65	29.41	29.58	12.71	15.98	32.47	25.79
2013	—	11.26	28.02	31.88	29.24	29.83	12.45	15.31	31.78	24.52
2014	—	11.50	27.16	34.46	29.69	30.46	12.14	15.36	32.53	24.76
2015	—	11.11	17.78	29.43	16.86	23.33	8.37	13.58	33.32	R 24.72
2016	—	10.36	15.39	29.13	13.44	R 22.19	7.15	12.53	33.28	24.78
2017	—	11.69	17.53	31.71	16.81	R 24.81	8.00	13.94	33.84	25.67
2018	—	11.07	19.12	33.05	24.28	26.28	8.85	13.91	34.37	25.57
2019	—	11.94	18.78	29.88	22.67	R 25.10	8.51	14.40	35.37	26.63
2020	—	12.01	16.69	28.23	14.73	23.31	7.04	R 14.04	35.25	R 26.53
2021	—	12.89	19.73	33.64	23.26	26.53	8.45	R 15.41	35.07	R 26.70
2022	—	15.24	29.75	36.18	37.24	32.92	13.07	R 18.59	39.10	R 30.18
2023	—	16.25	28.47	34.84	33.13	31.68	11.95	19.30	41.79	32.23
	Expenditures in million dollars									
1970	8.4	73.8	77.7	10.2	37.1	125.0	3.8	211.1	240.5	451.6
1975	6.2	109.5	142.4	22.0	34.9	199.3	7.9	322.9	598.6	921.5
1980	3.8	233.9	305.3	38.7	63.4	407.3	22.5	667.5	1,198.3	1,865.8
1985	5.8	342.4	263.9	60.2	148.6	472.6	31.2	852.0	1,500.6	2,352.5
1990	4.1	347.1	291.8	88.0	48.2	428.0	14.3	793.6	2,038.6	2,832.2
1995	3.1	493.4	189.4	114.7	36.4	340.5	17.5	854.5	2,625.8	3,480.3
2000	0.7	795.4	313.3	181.3	77.8	572.4	20.7	1,389.3	2,822.6	4,211.9
2005	1.3	1,293.1	485.8	273.7	121.0	880.6	40.6	2,215.7	3,645.0	5,860.6
2006	0.3	1,161.4	452.5	241.0	119.2	812.8	41.5	2,016.0	3,641.8	5,657.8
2007	1.0	1,248.4	462.6	297.4	87.2	847.2	50.7	2,147.3	3,975.9	6,123.2
2008	—	1,290.7	550.1	373.0	40.1	963.2	69.9	2,323.9	4,288.1	6,612.0
2009	—	1,167.9	293.0	362.4	35.1	690.6	50.9	1,909.3	4,747.6	6,657.0
2010	—	1,122.2	371.6	402.1	45.2	818.9	64.4	2,005.5	5,061.6	7,067.1
2011	—	1,008.7	441.3	420.6	24.1	886.0	75.0	1,969.7	4,871.3	6,841.1
2012	—	874.8	326.3	331.3	11.8	669.4	69.8	1,614.1	4,822.9	6,436.9
2013	—	1,001.0	R 380.9	387.1	13.1	R 781.1	89.2	R 1,871.3	4,924.5	R 6,795.8
2014	—	1,120.3	R 382.0	404.3	20.7	R 807.0	88.1	R 2,015.4	5,155.3	R 7,170.6
2015	—	994.8	R 230.9	361.8	8.1	R 600.8	46.6	R 1,642.2	5,221.3	R 6,863.5
2016	—	839.6	R 152.1	306.0	8.6	R 466.7	35.7	R 1,342.1	5,131.0	R 6,473.1
2017	—	949.0	R 156.6	312.4	6.1	R 475.2	R 34.3	R 1,458.4	5,078.9	R 6,537.3
2018	—	1,042.6	R 217.1	400.6	9.4	R 627.1	R 47.9	R 1,717.6	5,624.5	R 7,342.1
2019	—	1,032.7	R 177.4	380.2	9.5	R 567.1	R 40.9	R 1,640.7	5,632.1	R 7,272.8
2020	—	957.4	R 153.4	372.3	7.0	R 532.6	R 50.2	R 1,540.2	5,542.9	R 7,083.2
2021	—	1,111.7	R 238.6	394.9	10.0	R 643.4	R 62.3	R 1,817.4	5,579.6	R 7,397.0
2022	—	1,356.5	R 369.9	417.9	14.6	R 802.5	R 121.5	R 2,280.5	6,233.1	R 8,513.6
2023	—	1,252.9	330.1	399.0	22.3	751.4	94.4	2,098.7	6,145.5	8,244.2

[a] Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2023, Virginia

Year	Primary energy										Electricity [j]	Total energy [g,h,i]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f,g]	Total [g,h,i]		
	Prices in dollars per million Btu											
1970	0.42	0.94	1.08	1.45	0.65	2.85	0.32	1.20	0.73	0.97	4.84	2.57
1975	1.47	1.69	2.37	2.70	2.36	4.77	1.85	2.60	1.45	1.94	9.49	5.45
1980	1.64	3.71	6.46	4.40	5.94	9.97	3.91	6.19	3.70	4.27	15.79	9.95
1985	1.69	5.76	6.16	9.03	7.26	9.33	4.29	6.59	4.19	5.74	17.35	11.87
1990	1.64	4.72	5.62	9.00	7.34	9.46	3.31	6.35	1.70	4.98	17.15	11.88
1995	1.69	4.93	4.48	8.91	5.26	9.14	2.68	5.32	1.76	4.73	17.10	11.62
2000	1.58	7.32	7.19	12.10	8.36	11.62	4.23	7.87	1.55	7.14	16.08	12.15
2005	2.37	11.37	13.15	17.00	14.97	17.59	7.40	13.99	3.00	11.30	17.74	15.17
2006	2.58	12.04	15.05	18.86	18.46	20.01	8.82	16.00	2.67	12.35	18.21	16.00
2007	2.68	11.56	16.10	21.03	20.80	21.67	9.67	17.70	3.30	12.13	18.69	16.26
2008	5.52	12.35	24.13	25.27	23.05	25.67	14.14	24.51	3.84	13.75	21.47	18.65
2009	4.74	9.96	14.07	19.40	21.65	18.40	9.93	16.30	2.65	10.41	23.61	18.83
2010	3.94	9.31	18.09	22.77	24.05	21.99	12.53	20.01	2.94	10.57	22.43	18.13
2011	4.47	9.44	23.95	26.50	27.38	27.91	16.67	25.25	3.44	11.44	23.31	19.16
2012	3.79	8.47	24.58	20.47	29.41	28.58	17.94	23.30	2.93	10.79	23.68	19.19
2013	3.69	8.52	23.89	20.53	29.24	27.91	18.08	22.50	2.90	10.41	23.45	18.69
2014	3.40	8.74	21.34	22.40	29.69	26.88	16.90	22.01	R 3.12	10.61	23.89	18.81
2015	3.33	7.76	14.03	12.93	16.86	19.13	—	15.85	R 2.32	9.49	24.06	18.32
2016	3.48	6.88	11.08	12.05	13.44	17.45	7.33	14.00	R 1.60	8.42	23.25	17.54
2017	4.18	7.57	13.44	16.01	16.81	19.42	—	16.58	R 1.44	9.57	23.49	18.14
2018	4.47	7.64	16.74	17.46	24.28	21.13	10.12	18.66	R 1.74	10.20	24.37	18.83
2019	5.11	8.07	15.63	13.76	22.67	19.69	—	16.81	R 2.08	10.15	23.98	18.80
2020	4.91	7.67	10.34	12.97	14.73	16.56	7.59	13.70	R 2.42	R 8.94	22.37	R 17.48
2021	4.57	8.79	16.50	20.20	23.26	23.08	11.35	20.30	R 2.70	R 11.45	22.83	R 18.80
2022	6.24	10.92	28.00	21.44	37.24	29.64	16.90	26.94	R 2.47	R 14.06	28.30	R 23.52
2023	7.24	10.19	22.11	17.17	33.13	26.71	14.90	22.97	2.62	12.72	26.23	22.15
	Expenditures in million dollars											
1970	2.1	28.9	13.1	2.8	0.3	3.1	0.2	19.5	0.1	50.7	178.4	229.0
1975	7.8	55.5	26.8	5.6	0.6	7.8	2.9	43.6	0.1	107.0	453.5	560.6
1980	6.1	144.9	61.5	8.9	1.5	19.4	10.9	102.2	0.6	253.8	914.1	1,167.9
1985	8.9	203.3	98.5	21.8	8.8	22.4	11.9	163.4	0.7	376.5	1,272.5	1,649.0
1990	7.8	202.2	92.2	25.6	5.8	23.7	4.5	151.8	3.1	364.8	1,643.1	2,008.0
1995	10.5	289.3	69.3	34.2	8.2	6.3	3.5	121.5	3.6	424.8	1,928.1	2,352.9
2000	3.1	500.4	138.9	56.6	13.1	7.4	11.5	227.5	6.2	737.1	2,110.6	2,847.7
2005	6.6	780.2	228.0	82.4	17.2	10.5	3.9	341.9	16.3	1,145.0	2,704.5	3,849.5
2006	1.5	776.9	235.2	79.2	17.6	10.3	2.1	344.4	14.5	1,137.3	2,775.0	3,912.2
2007	5.0	796.7	194.4	94.8	19.1	12.9	1.1	322.3	16.8	1,140.8	2,995.9	4,136.7
2008	11.0	858.3	216.1	140.2	3.3	13.7	1.7	375.0	19.8	1,264.1	3,433.3	4,697.4
2009	11.0	698.1	108.3	101.2	3.4	9.2	1.4	223.5	12.4	945.0	3,772.5	4,717.5
2010	8.8	658.1	154.1	132.3	5.2	8.9	2.3	302.8	15.0	984.7	3,676.2	4,660.9
2011	10.6	622.9	159.4	159.6	4.0	15.0	1.2	339.1	16.0	988.7	3,742.9	4,731.5
2012	4.9	528.1	242.3	111.2	1.8	13.8	0.7	369.7	16.8	919.5	3,777.9	4,697.4
2013	4.9	601.6	R 189.9	144.7	2.1	13.1	0.4	R 350.3	17.6	R 974.4	3,820.2	R 4,794.6
2014	6.0	661.8	R 196.8	170.4	3.5	13.6	0.4	R 384.8	R 18.7	R 1,071.2	3,892.7	R 4,963.9
2015	4.4	561.8	R 129.7	90.3	1.2	216.2	—	R 437.4	R 13.5	R 1,017.2	3,969.5	R 4,986.7
2016	3.1	488.4	R 95.5	87.9	1.9	199.6	(s)	R 385.0	R 9.5	R 885.9	3,908.8	R 4,794.7
2017	3.9	544.6	R 121.3	121.2	0.9	222.4	—	R 465.7	R 8.4	R 1,022.7	4,023.0	R 5,045.7
2018	3.2	600.2	R 175.9	130.6	1.6	245.9	0.1	R 554.2	R 9.4	R 1,167.0	4,346.8	R 5,513.8
2019	3.0	607.7	R 169.5	96.7	1.7	230.5	—	R 498.4	R 9.7	R 1,118.9	4,417.2	R 5,536.0
2020	1.3	548.3	R 89.4	85.2	1.3	195.2	(s)	R 371.1	R 13.7	R 934.4	4,085.7	R 5,020.1
2021	1.1	665.5	R 141.3	158.3	1.8	274.1	(s)	R 575.5	R 14.8	R 1,256.9	4,575.2	R 5,832.1
2022	1.5	858.5	R 243.4	167.8	2.6	364.9	(s)	R 778.8	R 26.3	R 1,665.0	6,620.6	R 8,285.7
2023	1.7	730.8	179.1	118.0	4.0	326.4	(s)	627.6	25.3	1,385.5	6,604.4	7,989.9

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[g] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[j] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: Expenditure totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2023, Virginia

	Primary energy													
	Coal				Petroleum						Biomass			
Year	Coking coal	Steam coal	Total	Natural gas [a]	Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e,f]	Total [f,g,h]	Electricity [i]	Total energy [f,g,h]
	Prices in dollars per million Btu													
1970	0.40	0.42	0.42	0.49	0.60	1.53	2.85	0.34	1.13	0.79	1.47	0.60	3.08	0.84
1975	—	1.47	1.47	1.08	2.19	2.93	4.77	1.81	2.54	2.17	1.47	1.72	7.37	2.47
1980	1.86	1.64	1.69	2.99	5.33	4.79	9.97	3.58	5.86	4.94	1.51	3.16	12.19	4.40
1985	1.93	1.69	1.74	4.60	6.51	10.14	9.33	4.29	6.82	6.50	1.51	3.91	12.47	5.20
1990	1.80	1.64	1.67	3.52	5.64	10.02	9.46	3.31	4.88	5.29	0.96	2.97	12.51	4.38
1995	1.57	1.69	1.66	3.25	4.67	8.41	9.14	2.68	5.80	5.44	1.18	2.83	12.20	4.34
2000	1.66	1.58	1.61	5.03	7.58	12.49	11.62	4.23	6.86	7.49	1.44	3.88	11.42	5.25
2005	2.91	2.37	2.56	10.39	14.35	18.09	17.59	7.40	8.88	11.81	2.75	7.37	13.06	8.31
2006	3.25	2.58	2.81	9.64	16.26	20.37	20.01	8.82	11.24	14.52	2.68	7.92	13.75	8.92
2007	3.42	2.68	2.97	9.00	17.46	22.75	21.67	9.67	12.17	15.30	2.55	8.01	14.84	9.18
2008	4.29	3.44	3.76	11.08	25.42	27.78	25.67	14.14	16.98	21.34	2.89	10.30	17.05	11.49
2009	5.01	3.88	4.27	6.90	14.69	21.63	18.40	9.93	15.24	14.69	2.72	7.44	20.26	9.98
2010	5.29	3.61	4.34	6.51	18.58	21.31	21.99	12.53	R 18.72	R 18.12	2.73	R 8.15	19.51	R 10.38
2011	6.24	3.89	5.00	6.28	24.20	25.86	27.91	16.67	R 21.47	R 22.30	2.85	R 9.36	19.03	R 11.25
2012	6.11	4.16	5.04	5.11	25.01	19.57	28.58	17.94	R 22.43	R 23.11	2.71	R 9.02	19.68	R 11.09
2013	5.35	4.03	4.65	5.81	24.40	19.63	27.91	18.08	R 22.95	R 23.36	2.70	R 8.81	19.42	R 10.85
2014	4.37	3.87	4.13	6.13	24.02	21.58	26.88	16.90	R 22.93	R 23.36	3.29	R 8.81	20.19	R 11.04
2015	3.84	3.46	3.70	4.79	15.31	11.71	19.13	9.34	R 18.93	R 17.11	3.19	R 7.01	20.37	R 9.60
2016	3.42	3.28	3.37	4.21	12.82	10.80	17.45	7.33	R 15.13	R 14.04	3.11	R 6.07	19.21	R 8.66
2017	3.76	3.45	3.66	4.78	14.56	14.75	19.42	9.58	16.50	15.98	3.04	6.66	19.08	9.02
2018	4.05	3.51	3.89	4.80	17.59	16.17	21.13	10.12	19.99	19.11	2.78	7.13	20.11	9.66
2019	4.58	3.80	4.36	4.41	16.27	12.44	19.69	9.64	R 19.21	R 17.79	2.74	6.91	20.09	9.45
2020	3.94	3.50	3.82	3.54	11.57	11.63	16.56	7.59	R 17.47	R 15.41	2.23	5.55	18.39	8.09
2021	3.67	3.43	3.60	4.86	15.96	18.77	23.08	11.35	R 19.96	R 18.80	2.87	R 7.14	19.03	9.60
2022	6.01	5.05	5.74	7.13	27.50	19.91	29.64	16.90	R 26.40	R 26.21	3.09	R 10.32	23.42	R 12.76
2023	6.46	6.28	6.42	4.77	23.68	15.60	26.71	14.90	23.21	23.03	3.26	8.61	26.13	11.68
	Expenditures in million dollars													
1970	0.3	41.8	42.1	22.5	15.3	3.8	9.8	8.6	24.1	61.5	12.6	138.8	75.5	214.3
1975	—	97.0	97.0	39.4	36.8	12.0	11.5	85.4	53.7	199.5	11.6	347.4	228.3	575.7
1980	33.0	115.4	148.4	161.9	111.0	20.3	14.6	110.9	173.8	430.5	15.9	756.7	467.5	1,224.2
1985	45.7	138.1	183.8	232.5	126.2	57.8	33.6	83.5	257.2	558.4	18.6	993.6	566.4	1,560.0
1990	42.7	153.2	195.9	263.7	118.5	48.7	35.0	50.5	186.9	439.7	39.4	938.9	688.2	1,627.0
1995	40.8	108.6	149.4	313.3	96.6	37.0	34.2	21.3	177.5	366.5	80.2	909.4	753.4	1,662.9
2000	49.1	97.9	147.0	368.9	211.8	81.0	34.4	33.4	230.6	591.2	94.9	1,202.0	784.3	1,986.3
2005	86.0	136.1	222.1	798.6	593.2	77.2	149.6	111.9	345.2	1,277.2	174.3	2,472.2	862.6	3,334.8
2006	89.9	135.6	225.5	634.4	647.5	98.1	179.7	48.9	394.3	1,368.5	165.0	2,393.4	857.7	3,251.1
2007	109.1	135.0	244.1	618.2	717.7	81.8	120.5	82.7	399.7	1,402.4	149.6	2,414.2	918.9	3,333.1
2008	129.9	176.3	306.2	662.5	999.0	62.1	107.0	162.3	430.3	1,760.8	165.7	2,895.1	1,024.9	3,920.1
2009	110.7	162.7	273.4	360.7	263.2	47.8	75.8	92.9	392.5	872.2	114.9	1,621.2	1,094.1	2,715.2
2010	166.2	149.2	315.4	415.8	259.5	55.3	108.2	116.3	R 567.9	R 1,107.3	114.3	R 1,952.8	1,141.3	R 3,094.1
2011	207.7	144.1	351.7	426.0	350.8	67.5	134.3	107.1	R 711.0	R 1,370.8	121.9	R 2,270.3	1,118.0	R 3,388.4
2012	185.8	155.0	340.8	378.2	407.1	50.5	138.8	96.4	R 671.3	R 1,364.1	117.9	R 2,201.0	1,162.8	R 3,363.8
2013	162.4	138.1	300.5	457.5	414.9	61.0	141.3	62.9	R 592.4	R 1,272.5	127.5	R 2,158.0	1,136.2	R 3,294.2
2014	133.0	108.4	241.3	521.1	428.6	76.4	130.5	29.1	R 593.8	R 1,258.4	168.1	R 2,188.9	1,219.7	R 3,408.6
2015	114.0	61.8	175.8	435.8	235.0	44.4	72.1	19.1	R 590.1	R 960.7	173.9	R 1,746.1	1,218.7	R 2,964.8
2016	101.2	52.6	153.9	390.8	208.6	36.9	65.2	16.1	R 457.5	R 784.2	157.6	R 1,486.5	1,156.9	R 2,643.4
2017	111.6	46.0	157.6	474.3	218.4	47.5	73.5	6.3	522.5	868.1	160.8	1,660.8	1,117.7	2,778.5
2018	121.8	45.5	167.3	491.7	257.2	50.3	81.2	2.6	584.0	975.2	148.4	1,782.7	1,216.7	2,999.4
2019	138.2	45.3	183.5	468.8	254.3	31.3	75.4	15.4	R 577.2	R 953.5	137.0	R 1,742.8	1,206.0	R 2,948.9
2020	102.3	32.6	134.9	391.0	143.9	27.3	63.9	2.7	R 465.8	R 703.6	111.7	R 1,341.1	1,096.7	R 2,437.9
2021	94.8	36.7	131.5	579.8	243.2	73.8	88.5	9.6	R 574.3	R 989.4	142.7	R 1,843.4	1,279.9	R 3,123.4
2022	145.3	48.0	193.3	815.5	423.5	98.6	117.3	14.7	R 780.8	R 1,434.9	R 149.5	R 2,593.2	1,347.2	R 3,940.4
2023	156.6	45.4	202.0	546.2	356.0	50.1	107.3	10.7	674.2	1,198.4	147.7	2,094.3	1,353.0	3,447.3

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[i] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET6. Transportation sector energy price and expenditure estimates, selected years, 1970-2023, Virginia

Year	Primary energy											Electricity [g]	Total energy [f]
			Petroleum										
	Coal	Natural gas[a]	Aviation gasoline	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Lubricants	Motor gasoline [e]	Residual fuel oil	Total	Total [f]		
	Prices in dollars per million Btu												
1970	0.42	—	2.17	1.25	1.45	0.73	5.08	2.85	0.30	1.95	1.95	—	1.95
1975	1.47	—	3.45	2.72	2.70	2.03	7.48	4.77	1.61	3.91	3.91	—	3.91
1980	—	—	9.02	7.27	4.40	6.46	14.36	9.97	3.32	8.72	8.72	14.65	8.73
1985	—	—	9.99	8.34	10.41	5.79	18.18	9.33	4.18	8.55	8.56	17.33	8.56
1990	—	—	9.32	8.40	10.99	5.53	20.61	9.46	3.03	8.51	8.51	14.71	8.51
1995	—	2.23	8.36	7.64	10.80	3.87	21.75	9.14	2.21	8.26	8.26	14.55	8.26
2000	—	5.40	10.87	10.08	14.94	6.58	23.20	11.62	3.98	10.62	10.62	14.00	10.62
2005	—	9.71	18.56	16.49	20.05	12.84	35.22	17.59	6.83	16.60	16.59	19.95	16.60
2006	—	6.90	22.31	18.37	21.57	14.73	43.88	20.01	8.15	18.85	18.85	19.96	18.85
2007	—	7.18	23.70	19.73	23.45	15.90	47.16	21.67	8.24	20.42	20.42	19.73	20.42
2008	—	10.28	27.23	26.98	27.71	22.73	55.12	25.67	10.73	25.55	25.55	22.87	25.54
2009	—	6.54	20.32	17.06	21.10	12.99	56.07	18.40	7.49	17.53	17.53	24.68	17.53
2010	—	4.20	25.19	21.12	25.16	16.18	58.80	21.99	10.29	21.08	21.07	22.57	21.08
2011	—	4.43	31.64	27.17	29.53	22.34	69.54	27.91	13.34	27.00	26.99	24.16	26.99
2012	—	14.65	33.04	28.07	23.20	23.04	72.11	28.58	12.46	27.73	27.73	24.94	27.72
2013	—	R 15.42	32.71	27.75	22.91	22.07	69.42	27.91	12.10	27.11	27.11	23.94	R 27.11
2014	—	R 15.85	33.16	26.97	24.46	20.90	69.44	26.88	14.46	26.08	26.08	24.14	26.08
2015	—	R 15.56	24.86	19.10	15.11	12.24	67.28	19.13	6.92	18.18	18.18	23.77	18.18
2016	—	R 15.18	21.62	16.08	14.19	9.93	65.78	17.45	5.62	15.96	15.96	22.74	R 15.97
2017	—	R 16.43	24.13	18.48	18.39	11.96	67.25	19.42	5.20	17.94	R 17.94	23.77	R 17.95
2018	—	R 18.57	27.04	21.93	19.88	15.53	72.37	21.13	6.15	20.43	R 20.43	24.25	R 20.43
2019	—	R 18.04	25.57	21.10	15.92	14.23	74.92	19.69	6.16	19.17	R 19.17	24.23	R 19.17
2020	—	R 16.54	22.34	17.78	15.05	10.34	75.34	16.56	5.98	16.29	R 16.29	25.72	16.29
2021	—	R 17.98	28.86	22.72	24.08	13.99	81.25	23.08	9.04	21.99	21.98	24.88	21.98
2022	—	R 25.38	36.02	35.21	24.70	24.88	97.37	29.64	12.72	R 30.27	R 30.26	31.81	R 30.26
2023	—	32.51	32.62	29.70	19.87	20.10	105.48	26.71	10.13	26.51	26.52	30.53	26.53
	Expenditures in million dollars												
1970	0.1	—	3.9	56.0	0.3	44.9	13.3	714.9	22.4	855.7	855.7	—	855.7
1975	(s)	—	4.4	130.4	0.6	131.9	19.4	1,465.4	64.4	1,816.5	1,816.5	—	1,816.5
1980	—	—	9.9	475.3	0.8	444.2	46.1	3,058.9	92.3	4,127.6	4,127.6	1.6	4,129.2
1985	—	—	6.6	694.5	4.1	357.1	53.2	3,030.9	89.9	4,236.3	4,257.2	3.5	4,260.7
1990	—	—	3.3	819.7	2.7	489.8	67.8	3,436.3	63.3	4,882.8	4,895.1	4.3	4,899.4
1995	—	0.2	3.6	819.2	2.7	232.1	68.3	3,710.7	26.8	4,863.3	4,863.5	4.3	4,867.7
2000	—	1.3	5.3	1,456.4	2.0	370.8	77.8	5,133.4	105.6	7,151.4	7,152.7	4.6	7,157.3
2005	—	1.6	20.9	2,726.8	5.2	1,372.4	99.6	8,542.5	82.9	12,850.4	12,852.0	11.1	12,863.2
2006	—	1.2	6.9	3,345.9	6.0	1,570.5	120.9	9,880.6	86.8	15,017.6	15,018.8	11.1	15,029.9
2007	—	1.1	23.5	3,413.2	5.7	1,714.7	134.2	10,900.1	68.7	16,260.1	16,261.3	13.0	16,274.2
2008	—	1.5	24.7	4,070.2	13.7	2,128.7	145.6	12,392.7	66.9	18,842.6	18,844.1	15.1	18,859.2
2009	—	0.9	21.9	R 2,464.9	6.8	1,155.4	133.2	8,743.7	28.1	R 12,553.9	R 12,554.9	16.3	R 12,571.2
2010	—	0.6	11.9	R 3,117.4	2.9	1,822.5	244.8	10,625.8	52.3	R 15,877.5	R 15,878.1	14.6	R 15,892.7
2011	—	1.2	14.0	R 3,985.1	3.4	2,444.8	266.7	12,627.5	91.5	R 19,433.0	R 19,434.2	15.5	R 19,449.7
2012	—	4.0	13.9	R 4,162.0	2.8	2,471.7	263.6	13,248.2	83.8	R 20,246.0	R 20,250.0	16.0	R 20,266.0
2013	—	R 3.4	12.0	R 4,114.0	3.3	2,463.5	262.1	12,951.1	49.7	R 19,855.7	R 19,859.1	15.9	R 19,875.0
2014	—	R 3.4	16.2	R 4,085.3	2.5	2,596.1	272.4	12,751.4	48.8	R 19,772.9	R 19,776.3	16.6	R 19,792.9
2015	—	R 4.4	8.0	R 2,833.3	1.9	1,593.2	280.9	8,948.0	11.2	R 13,676.4	R 13,680.9	15.9	R 13,696.8
2016	—	R 10.6	7.7	R 2,355.9	2.2	1,464.9	260.3	8,278.2	16.3	R 12,385.5	R 12,396.1	14.2	R 12,410.3
2017	—	R 14.8	8.4	R 2,691.1	2.8	1,805.4	244.8	9,261.5	25.7	R 14,039.7	R 14,054.5	14.4	R 14,068.9
2018	—	R 17.0	11.0	R 3,570.7	3.5	R 2,350.6	258.6	10,081.5	10.0	R 16,285.8	R 16,302.9	16.4	R 16,319.3
2019	—	R 16.7	11.0	R 3,649.7	2.6	R 2,198.3	R 264.3	9,315.8	8.2	R 15,450.0	R 15,466.6	15.7	R 15,482.3
2020	—	R 11.0	7.7	R 2,918.0	1.6	R 916.2	R 239.1	6,976.2	13.8	R 11,072.7	R 11,083.7	14.4	R 11,098.1
2021	—	R 12.9	11.4	R 3,675.6	3.0	R 1,367.8	R 266.7	10,585.2	23.8	R 15,933.4	R 15,946.3	14.8	R 15,961.1
2022	—	R 18.1	14.7	R 5,410.7	4.9	R 3,051.7	R 321.4	12,949.7	34.3	R 21,787.5	R 21,805.6	14.1	R 21,819.7
2023	—	27.9	12.7	4,485.5	4.0	2,301.1	263.3	12,610.7	22.7	19,700.0	19,727.8	25.0	19,752.8

[a] Transportation use of natural gas as vehicle fuel only.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET7. Electric power sector price and expenditure estimates, selected years, 1970-2023, Virginia

Year	Coal	Natural gas [a]	Petroleum: Distillate fuel oil	Petroleum: Petroleum coke	Petroleum: Residual fuel oil	Petroleum: Total	Nuclear fuel	Biomass: Wood and waste [b]	Electricity imports [c]	Total energy [d]
	Prices in dollars per million Btu									
1970	0.38	0.29	0.35	0.35	0.31	0.32	—	—	—	0.35
1975	1.14	0.99	2.18	—	1.84	1.85	0.28	—	—	1.24
1980	1.71	2.89	5.86	—	3.94	4.03	0.74	—	—	2.00
1985	1.80	3.44	5.57	—	4.37	4.60	0.55	—	—	1.18
1990	1.55	2.58	5.83	—	3.60	4.19	0.47	0.46	—	1.09
1995	1.45	2.59	3.65	—	2.23	2.63	0.46	0.70	—	1.12
2000	1.33	4.51	6.75	—	4.14	4.69	0.43	0.67	—	1.26
2005	2.32	9.32	10.31	—	6.80	7.48	0.44	3.35	—	2.53
2006	2.44	7.51	12.87	—	7.93	9.57	0.52	2.78	—	2.19
2007	2.48	8.18	13.58	—	7.95	9.76	0.52	1.59	—	2.61
2008	2.72	10.45	21.37	—	10.97	14.74	0.49	1.84	—	2.85
2009	3.07	4.53	13.45	—	7.42	10.75	0.53	1.91	—	2.28
2010	3.31	5.54	14.99	—	11.37	12.86	0.54	2.15	—	2.84
2011	3.55	4.89	19.75	—	16.02	18.02	0.32	2.16	—	2.60
2012	3.61	3.27	21.98	—	15.29	19.08	0.54	1.88	—	2.17
2013	3.32	4.15	20.97	—	14.44	18.62	0.71	2.17	—	2.46
2014	3.28	5.88	22.19	—	16.33	20.46	0.61	3.42	—	3.02
2015	2.95	3.36	14.99	—	7.59	11.33	0.63	3.33	—	2.35
2016	2.88	3.07	10.02	—	7.28	8.87	0.65	3.07	—	2.17
2017	2.73	3.33	11.93	—	6.23	10.38	0.66	2.90	9.18	2.20
2018	2.67	4.15	13.86	—	7.09	11.97	0.63	3.01	10.74	2.71
2019	2.77	3.15	14.22	—	7.24	11.66	0.59	3.09	—	2.18
2020	2.48	2.39	13.68	—	7.11	11.78	0.57	2.22	—	1.74
2021	2.38	3.95	13.84	—	10.71	R 13.48	0.56	3.41	—	2.58
2022	3.28	R 7.16	19.81	—	18.52	19.76	0.57	3.69	—	R 4.28
2023	5.20	3.31	19.71	—	—	19.70	0.59	3.72	—	2.23
	Expenditures in million dollars									
1970	63.1	1.3	1.5	1.8	33.8	37.0	—	—	—	101.4
1975	109.3	0.5	7.9	—	309.7	317.6	27.7	—	—	455.1
1980	238.2	7.3	27.1	—	361.0	388.1	92.8	—	—	726.4
1985	330.9	5.5	11.0	—	35.7	46.7	129.1	—	—	512.3
1990	357.3	26.0	18.8	—	32.2	51.0	118.5	3.1	—	555.8
1995	416.0	120.3	14.5	—	22.1	36.6	120.8	9.1	—	702.7
2000	549.8	171.8	38.0	—	87.8	125.8	127.2	3.8	—	978.4
2005	853.8	644.1	84.3	—	233.3	317.6	128.8	46.1	—	1,990.4
2006	858.1	466.3	34.4	—	42.5	76.8	150.4	34.9	—	1,586.5
2007	926.5	762.6	87.6	—	108.3	195.8	147.7	20.9	—	2,053.6
2008	899.6	836.8	93.3	—	84.4	177.7	144.0	29.9	—	2,088.0
2009	823.1	445.7	77.5	—	34.8	112.3	155.0	30.0	—	1,566.2
2010	898.1	799.4	80.9	—	87.5	168.5	150.5	35.0	—	2,051.5
2011	765.7	715.3	53.3	—	37.2	90.5	86.3	34.4	—	1,692.3
2012	553.3	641.7	44.7	—	23.7	68.4	163.5	32.3	—	1,459.3
2013	746.5	736.1	41.6	—	16.1	57.6	217.4	48.0	—	1,805.6
2014	714.3	974.0	194.5	—	59.8	254.2	193.8	112.9	—	2,249.4
2015	541.8	863.3	86.6	—	42.9	129.6	185.0	111.9	—	1,831.5
2016	508.3	955.1	33.9	—	17.8	51.7	202.8	103.1	—	1,821.0
2017	315.9	1,090.0	41.7	—	8.2	49.9	211.0	82.3	0.9	1,750.0
2018	281.8	1,553.0	93.3	—	18.5	111.8	191.7	107.6	1.1	2,247.1
2019	117.5	1,351.1	21.6	—	6.4	27.9	181.8	96.5	—	1,774.8
2020	98.8	1,119.6	21.2	—	4.5	25.6	178.7	62.0	—	1,484.7
2021	75.9	1,573.4	37.9	—	3.7	41.7	166.5	112.9	—	1,970.3
2022	110.8	R 2,601.8	122.5	—	3.9	126.4	168.7	110.0	—	R 3,117.7
2023	78.4	1,240.6	25.2	—	—	25.2	182.6	102.2	—	1,629.0

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[c] Electricity imported from Canada and Mexico.
[d] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET1. Primary energy, electricity, and total energy price and expenditure estimates, selected years, 1970-2023, Washington

Year	Primary energy														Electric power sector [l,k,l]	Electricity [m]	Total energy [h,i,j]
	Coal			Natural gas [a]	Petroleum							Nuclear fuel	Biomass				
	Coking coal	Steam coal	Total		Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total		Wood and waste [g,h]	Total [h,i,j,k]			
	Prices in dollars per million Btu																
1970	—	0.55	0.55	0.71	1.18	2.38	0.73	2.92	0.32	1.00	1.72	0.18	1.33	1.42	0.35	2.02	1.58
1975	—	0.61	0.61	1.60	2.55	4.38	2.04	4.62	1.93	2.01	3.24	0.24	1.48	2.51	0.76	2.77	2.79
1980	—	1.13	1.13	4.48	6.68	6.77	6.21	9.92	3.24	4.61	7.13	0.43	1.83	5.75	1.49	4.16	5.89
1985	—	1.74	1.74	5.23	7.67	9.66	6.03	9.31	4.53	4.51	7.39	0.71	1.96	5.75	1.85	9.18	7.37
1990	—	1.65	1.65	3.60	7.85	10.58	5.68	9.45	2.70	3.61	6.95	0.47	1.37	5.38	1.14	10.03	7.03
1995	—	1.58	1.58	3.98	7.77	10.43	4.20	10.07	2.15	3.45	6.87	0.42	1.54	5.31	1.77	12.10	7.34
2000	—	1.71	1.71	5.34	11.02	13.32	6.92	12.93	3.97	3.56	9.78	0.47	1.90	7.29	2.98	12.74	9.53
2005	—	1.45	1.45	9.52	18.34	19.56	12.81	19.24	5.63	6.33	16.11	0.42	3.15	11.65	2.80	17.26	14.99
2006	—	1.74	1.74	10.10	20.52	21.34	14.96	21.95	7.29	6.89	18.56	0.48	3.05	13.40	2.75	18.07	16.46
2007	—	1.92	1.92	10.52	21.70	23.82	16.14	24.12	8.20	7.99	19.87	0.47	3.31	14.50	3.14	18.73	17.71
2008	—	2.27	2.27	10.65	27.87	27.90	22.79	28.04	16.39	8.83	25.07	0.48	4.00	17.18	3.87	19.28	20.61
2009	—	2.35	2.35	10.15	18.43	22.17	12.61	21.24	12.57	8.93	17.85	0.57	4.01	13.19	3.29	19.41	16.78
2010	—	2.32	2.32	8.97	22.21	24.49	16.27	24.77	15.32	R 13.93	21.84	0.65	3.93	14.37	2.93	19.63	18.42
2011	—	2.34	2.34	9.77	28.51	27.85	22.49	30.54	20.91	R 18.92	27.72	0.70	4.19	19.14	3.21	20.01	21.48
2012	—	2.09	2.09	9.00	29.75	22.30	22.61	31.48	23.28	R 16.65	R 28.19	0.77	4.00	18.69	2.23	20.49	21.77
2013	—	2.07	2.07	R 8.01	28.80	22.86	21.88	29.94	22.36	R 20.05	R 27.37	0.84	4.18	R 17.47	2.68	20.94	21.53
2014	—	2.62	2.62	7.83	27.84	25.14	20.55	29.24	21.60	R 19.19	R 26.71	0.80	R 4.63	R 16.95	2.89	21.04	R 21.18
2015	—	2.50	2.50	R 7.49	19.67	16.99	12.16	22.35	11.63	R 14.98	R 18.99	0.71	R 4.07	R 13.13	2.65	21.85	R 17.45
2016	—	2.37	2.37	R 6.92	17.28	17.08	9.85	20.55	8.45	R 15.47	R 16.37	0.67	R 3.73	R 11.60	2.13	22.69	R 15.89
2017	—	2.41	2.41	7.00	20.73	21.33	11.99	23.64	11.94	17.06	19.64	0.76	R 3.91	13.40	2.30	23.44	17.78
2018	—	2.42	2.42	6.59	23.97	22.11	15.74	26.54	14.93	19.64	23.00	0.75	R 3.99	15.20	2.06	23.63	19.69
2019	—	2.34	2.34	6.20	22.90	19.80	14.70	25.88	14.06	R 20.57	22.02	0.69	R 4.10	14.30	2.37	23.76	R 19.10
2020	—	2.28	2.28	6.80	18.47	17.47	9.75	22.20	10.25	R 23.84	18.84	0.65	R 2.65	R 11.94	2.40	24.61	R 17.64
2021	—	2.92	2.92	7.40	24.53	23.78	14.32	28.61	15.49	R 30.51	R 24.10	0.61	R 3.28	R 15.81	3.30	25.81	R 20.95
2022	—	3.30	3.30	9.28	R 37.03	25.11	26.03	37.87	26.83	R 39.12	34.32	0.64	R 4.29	R 22.06	R 4.76	26.69	R 26.93
2023	—	3.91	3.91	9.74	32.50	22.72	20.86	36.91	22.09	35.78	31.49	0.66	4.27	20.61	3.97	28.25	26.35
	Expenditures in million dollars																
1970	—	3.2	3.2	97.2	123.0	14.8	43.3	553.3	17.9	58.3	810.5	5.2	21.8	943.8	-11.1	316.8	1,249.5
1975	—	46.9	46.9	242.3	248.4	11.4	160.7	994.2	82.8	131.0	1,628.5	8.7	23.6	1,988.0	-84.6	523.9	2,427.2
1980	—	103.1	103.1	530.5	715.7	33.8	419.5	2,222.4	327.7	212.8	3,931.9	9.6	40.6	4,693.6	-173.6	953.4	5,473.4
1985	—	162.5	162.5	686.4	893.8	73.7	522.2	2,152.0	314.2	278.5	4,234.5	60.3	60.2	5,350.4	-348.7	2,331.7	7,333.5
1990	—	141.0	141.0	554.1	921.0	75.8	716.0	2,654.5	265.7	279.4	4,912.4	28.8	76.4	5,727.6	-165.1	3,033.5	8,596.0
1995	—	110.4	110.4	986.1	961.8	94.5	547.6	3,084.0	231.7	267.5	5,187.1	30.3	95.9	6,428.6	-333.3	3,568.5	9,663.8
2000	—	182.1	182.1	1,507.4	1,609.8	271.1	969.9	4,239.8	174.4	359.1	7,624.2	41.9	116.9	9,716.2	-888.9	4,131.1	12,958.4
2005	—	163.4	163.4	2,445.9	2,637.5	190.9	1,342.0	6,513.5	275.3	358.2	11,317.3	35.8	192.1	14,297.4	-795.8	4,842.4	18,344.0
2006	—	120.2	120.2	2,590.0	3,557.3	215.9	1,577.0	7,479.3	284.1	415.5	13,529.2	46.9	260.5	16,690.4	-671.4	5,169.4	21,188.4
2007	—	183.5	183.5	2,769.5	3,818.5	224.7	1,871.6	8,172.4	514.6	426.9	15,028.7	39.6	196.6	18,443.4	-816.8	5,404.0	23,030.5
2008	—	215.1	215.1	3,096.1	4,822.1	453.9	2,598.1	9,146.4	464.1	539.5	18,024.2	46.2	229.3	21,796.1	-1,096.7	5,665.6	26,365.0
2009	—	197.3	197.3	3,077.0	R 2,622.6	345.3	1,308.4	6,980.4	552.1	486.8	R 12,295.5	39.5	214.9	R 15,954.4	-863.8	5,891.4	R 20,982.0
2010	—	220.2	220.2	2,484.4	R 3,153.9	375.8	1,216.5	8,008.7	622.8	R 630.5	R 14,008.3	63.2	308.9	R 17,185.5	-844.8	5,959.3	R 22,300.0
2011	—	133.1	133.1	2,484.3	R 4,254.9	469.4	1,690.8	9,783.4	1,023.4	R 634.2	R 17,856.2	35.0	332.2	20,960.7	-531.9	6,294.2	R 26,722.9
2012	—	89.1	89.1	2,260.5	R 4,050.3	352.5	1,659.7	9,995.4	1,449.8	R 650.6	R 18,158.2	74.9	312.8	R 20,968.4	-437.7	6,349.4	R 26,880.1
2013	—	154.9	154.9	R 2,267.1	R 3,792.6	364.4	1,741.5	9,891.2	1,346.3	R 626.7	R 17,762.7	74.0	342.4	R 20,675.2	-711.6	6,521.4	R 26,485.0
2014	—	200.3	200.3	R 2,157.7	R 3,867.1	394.2	1,693.5	9,610.5	881.6	R 640.5	R 17,087.4	79.1	R 379.3	R 19,980.4	-794.3	6,494.1	R 25,680.1
2015	—	145.8	145.8	R 2,119.8	R 2,949.0	231.9	1,121.5	7,580.5	639.1	R 660.0	R 13,182.0	60.9	R 343.0	R 15,981.7	-704.4	6,601.6	R 21,878.9
2016	—	126.1	126.1	R 1,905.9	R 2,699.7	266.3	977.7	6,960.6	950.4	R 579.8	R 12,434.6	67.1	R 342.3	R 14,921.2	-540.4	6,754.1	R 21,134.9
2017	—	148.7	148.7	R 2,114.7	R 3,109.4	340.6	1,255.9	7,995.2	1,026.5	559.2	R 14,287.0	64.2	R 341.7	R 17,013.0	-567.3	7,224.8	R 23,670.5
2018	—	148.3	148.3	R 1,887.6	R 3,943.2	377.5	R 1,653.8	9,309.7	967.7	613.0	R 16,864.9	75.6	R 348.9	R 19,377.9	-529.6	7,123.2	R 25,971.4
2019	—	188.8	188.8	R 2,032.7	R 3,739.3	354.6	R 1,634.1	9,149.0	1,076.5	R 621.6	R 16,575.2	63.5	R 354.6	R 19,290.5	-714.9	7,244.3	R 25,819.9
2020	—	135.4	135.4	R 2,027.7	R 2,824.8	289.2	R 683.8	6,184.4	381.3	R 472.7	R 10,836.2	63.8	R 188.7	R 13,447.2	-691.3	7,143.2	R 19,899.1
2021	—	108.0	108.0	R 2,394.4	R 3,772.0	441.6	R 1,301.3	8,729.1	1,199.4	R 595.3	R 16,038.7	54.3	R 240.8	R 19,069.4	-892.2	7,622.8	R 25,800.0
2022	—	139.6	139.6	2,955.2	R 5,772.9	454.1	R 2,645.6	11,610.0	2,129.7	R 769.5	R 23,381.8	66.2	R 298.5	R 27,232.9	-1,308.0	8,124.4	R 34,049.3
2023	—	193.8	193.8	3,371.1	5,258.9	359.4	2,303.3	11,565.5	1,455.1	614.6	21,556.8	57.7	289.1	25,516.1	-1,162.2	8,471.0	32,825.0

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[l] Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
[m] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET2. Total end-use energy price and expenditure estimates, selected years, 1970-2023, Washington

Year	Primary energy											Electricity [k]	Total energy [h,i,j]
			Petroleum							Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g,h]	Total [h,i,j]		
	Prices in dollars per million Btu												
1970	0.55	0.71	1.18	2.38	0.73	2.92	0.32	1.00	1.72	1.33	1.48	2.02	1.58
1975	0.90	1.60	2.55	4.38	2.04	4.62	1.93	2.01	3.25	1.48	2.80	2.77	2.79
1980	2.42	4.48	6.68	6.77	6.21	9.92	3.23	4.61	7.14	1.83	6.46	4.16	5.89
1985	2.46	5.23	7.68	9.66	6.03	9.31	4.53	4.51	7.39	2.08	6.75	9.18	7.37
1990	2.51	3.60	7.86	10.58	5.68	9.45	2.70	3.61	6.95	1.42	6.05	10.03	7.03
1995	3.14	3.90	7.80	10.43	4.20	10.07	2.15	3.45	6.88	1.62	5.96	12.10	7.34
2000	2.51	5.44	11.16	13.32	6.92	12.93	3.97	3.56	9.80	2.05	8.52	12.74	9.53
2005	3.31	10.59	18.35	19.56	12.81	19.24	5.63	6.33	16.11	3.44	14.31	17.26	14.99
2006	3.71	11.47	20.52	21.34	14.96	21.95	7.29	6.89	18.56	3.20	16.00	18.07	16.46
2007	3.86	11.81	21.70	23.82	16.14	24.12	8.20	7.99	19.87	3.55	17.41	18.73	17.71
2008	4.86	11.49	27.87	27.90	22.79	28.04	16.39	8.83	25.07	4.24	21.01	19.28	20.61
2009	4.81	12.41	18.43	22.17	12.61	21.24	12.57	8.93	17.85	4.17	15.94	19.41	16.78
2010	5.67	10.49	22.22	24.49	16.27	24.77	15.32	R 13.93	21.84	4.04	18.01	19.63	18.42
2011	6.18	10.58	28.51	27.85	22.49	30.54	20.91	R 18.92	27.72	4.35	21.98	20.01	21.48
2012	5.87	9.99	29.76	22.30	22.61	31.48	23.28	R 16.65	28.19	4.12	R 22.20	20.49	21.77
2013	6.09	R 9.64	28.81	22.86	21.88	29.94	22.36	R 20.05	R 27.37	4.42	R 21.74	20.94	21.53
2014	6.08	9.19	27.85	25.14	20.55	29.24	21.60	R 19.19	R 26.71	4.88	21.22	21.04	R 21.18
2015	5.99	9.79	19.67	16.99	12.16	22.35	11.63	R 14.98	R 19.00	R 4.28	R 16.06	21.85	R 17.45
2016	5.64	R 8.57	17.29	17.08	9.85	20.55	8.45	R 15.47	R 16.37	R 3.97	R 13.93	22.69	R 15.89
2017	6.24	8.47	20.73	21.33	11.99	23.64	11.94	17.06	19.64	R 4.19	16.08	23.44	17.78
2018	5.89	8.09	23.98	22.11	15.74	26.54	14.93	19.64	23.00	R 4.21	18.53	23.63	19.69
2019	5.78	7.76	22.91	19.80	14.70	25.88	14.06	R 20.57	22.02	R 4.27	17.74	23.76	R 19.10
2020	5.90	8.87	18.48	17.47	9.75	22.20	10.25	R 23.84	18.84	R 2.73	R 15.23	24.61	R 17.64
2021	6.01	9.42	R 24.53	23.78	14.32	28.61	15.49	R 30.51	24.11	R 3.41	R 19.42	25.81	R 20.95
2022	6.56	10.55	37.05	25.11	26.03	37.87	26.83	R 39.12	34.33	R 4.49	R 27.01	26.69	R 26.93
2023	8.26	12.69	32.51	22.72	20.86	36.91	22.09	35.78	31.50	4.43	25.75	28.25	26.35
	Expenditures in million dollars												
1970	3.2	97.2	123.0	14.8	43.3	553.3	17.9	58.3	810.5	21.8	932.7	316.8	1,249.5
1975	10.2	242.3	248.4	11.4	160.7	994.2	81.7	131.0	1,627.3	23.6	1,903.4	523.9	2,427.2
1980	26.1	527.2	714.5	33.8	419.5	2,222.4	323.2	212.8	3,926.2	40.6	4,520.1	953.4	5,473.4
1985	23.5	686.0	893.2	73.7	522.2	2,152.0	314.2	278.5	4,233.9	57.9	5,001.7	2,331.7	7,333.5
1990	16.6	553.6	920.1	75.8	716.0	2,654.5	265.7	279.4	4,911.4	74.2	5,562.5	3,033.5	8,596.0
1995	18.8	804.7	955.2	94.5	547.6	3,084.0	231.7	267.5	5,180.5	91.3	6,095.3	3,568.5	9,663.8
2000	8.4	1,119.0	1,579.5	271.1	969.9	4,239.8	174.4	359.1	7,593.9	106.0	8,827.3	4,131.1	12,958.4
2005	4.9	2,008.9	2,636.1	190.9	1,342.0	6,513.5	275.3	358.2	11,316.0	171.8	13,501.6	4,842.4	18,344.0
2006	7.4	2,248.4	3,552.8	215.9	1,577.0	7,479.3	284.1	415.5	13,524.6	238.6	16,019.0	5,169.4	21,188.4
2007	12.3	2,417.1	3,815.9	224.7	1,871.6	8,172.4	514.6	426.9	15,026.1	170.9	17,626.5	5,404.0	23,030.5
2008	14.4	2,457.7	4,814.9	453.9	2,598.1	9,146.4	464.1	539.5	18,017.0	210.4	20,699.4	5,665.6	26,365.0
2009	16.9	2,594.0	R 2,615.6	345.3	1,308.4	6,980.4	552.1	486.8	R 12,288.6	191.1	R 15,090.6	5,891.4	R 20,982.0
2010	15.5	2,045.4	R 3,149.7	375.8	1,216.5	8,008.7	622.8	R 630.5	R 14,004.1	275.7	R 16,340.7	5,959.3	R 22,300.0
2011	11.3	2,261.6	R 4,250.0	469.4	1,690.8	9,783.4	1,023.4	R 634.2	17,851.4	304.5	20,428.8	6,294.2	R 26,722.9
2012	12.3	2,068.0	R 4,046.5	352.5	1,659.7	9,995.4	1,449.8	R 650.6	R 18,154.3	296.1	R 20,530.7	6,349.4	R 26,880.1
2013	12.2	R 1,864.3	R 3,789.2	364.4	1,741.5	9,891.2	1,346.3	R 626.7	R 17,759.4	327.7	R 19,963.6	6,521.4	R 26,485.0
2014	16.5	R 1,723.8	R 3,864.3	394.2	1,693.5	9,610.5	881.6	R 640.5	R 17,084.6	R 361.2	R 19,186.1	6,494.1	R 25,680.1
2015	11.5	R 1,759.7	R 2,947.7	231.9	1,121.5	7,580.5	639.1	R 660.0	R 13,180.7	R 325.4	R 15,277.3	6,601.6	R 21,878.9
2016	10.6	R 1,606.0	R 2,698.1	266.3	977.7	6,960.6	950.4	R 579.8	R 12,432.9	R 331.3	R 14,380.9	6,754.1	R 21,134.9
2017	8.9	R 1,821.2	R 3,106.6	340.6	1,255.9	7,995.2	1,026.5	559.2	R 14,284.2	R 331.6	R 16,445.7	7,224.8	R 23,670.5
2018	8.1	R 1,642.4	R 3,940.7	377.5	R 1,653.8	9,309.7	967.7	613.0	R 16,862.3	R 335.4	R 18,848.2	7,123.2	R 25,971.4
2019	8.6	R 1,650.5	R 3,737.2	354.6	R 1,634.1	9,149.0	1,076.5	R 621.6	R 16,573.1	R 343.5	R 18,575.6	7,244.3	R 25,819.9
2020	9.1	R 1,733.9	R 2,823.0	289.2	R 683.8	6,184.4	381.3	R 472.7	R 10,834.5	R 178.4	R 12,755.9	7,143.2	R 19,899.1
2021	8.9	R 1,902.8	R 3,769.9	441.6	R 1,301.3	8,729.1	1,199.4	R 595.3	R 16,036.6	R 228.9	R 18,177.2	7,622.8	R 25,800.0
2022	9.6	R 2,254.9	R 5,766.7	454.1	R 2,645.6	11,610.0	2,129.7	R 769.5	R 23,375.6	R 284.8	R 25,924.9	8,124.4	R 34,049.3
2023	11.6	2,519.4	5,252.7	359.4	2,303.3	11,565.5	1,455.1	614.6	21,550.5	272.4	24,353.9	8,471.0	32,825.0

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. · Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2023, Washington

Year	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
	Prices in dollars per million Btu									
1970	0.95	1.33	1.40	3.00	2.47	1.56	0.82	1.44	3.12	2.09
1975	1.14	2.18	2.80	5.73	3.61	2.97	1.62	2.50	3.94	3.20
1980	4.26	5.05	7.27	8.12	9.80	7.39	4.15	5.91	5.56	5.70
1985	3.67	6.35	7.76	8.46	11.34	7.92	4.69	6.67	11.14	9.40
1990	3.77	4.87	7.90	12.32	7.55	8.46	4.75	5.85	12.88	10.07
1995	3.77	5.65	7.39	10.21	5.12	8.08	3.86	5.99	14.55	10.84
2000	3.72	6.87	11.11	14.28	9.80	12.39	5.88	7.80	15.04	11.66
2005	—	11.46	18.34	19.98	13.66	19.05	9.20	12.53	19.18	16.14
2006	3.82	12.97	20.67	21.52	21.97	21.09	10.60	14.06	20.00	17.33
2007	3.96	13.52	22.50	23.81	24.09	23.17	11.71	14.68	21.28	18.30
2008	—	12.68	26.32	26.59	29.86	26.49	14.42	14.64	22.11	18.65
2009	—	13.54	19.29	21.85	24.92	20.93	10.83	14.39	22.49	18.72
2010	—	11.85	23.54	26.04	26.73	25.11	12.78	13.85	23.56	19.11
2011	—	11.95	28.30	27.94	32.08	28.09	15.36	14.28	24.26	19.57
2012	—	11.53	29.63	25.76	33.62	27.11	17.11	13.56	24.99	19.84
2013	—	11.01	29.29	25.51	33.23	26.79	16.76	13.04	25.49	19.75
2014	—	10.14	28.63	29.78	33.06	29.38	16.34	12.66	25.40	19.56
2015	—	11.10	20.08	22.78	17.05	21.75	11.26	12.17	26.65	20.12
2016	—	9.99	16.73	21.81	13.59	R 20.12	9.62	11.02	27.80	19.90
2017	—	9.83	19.10	25.14	17.00	23.00	10.76	11.38	28.30	19.99
2018	—	9.46	22.28	26.07	24.56	24.98	11.90	11.36	28.58	20.18
2019	—	9.05	21.46	23.02	22.93	22.63	11.46	10.88	28.45	19.63
2020	—	10.11	17.62	20.39	14.89	19.62	9.47	R 11.17	28.94	R 20.58
2021	—	10.70	21.05	26.12	23.52	24.57	11.37	R 12.35	29.63	R 21.50
2022	—	11.78	32.51	28.81	38.83	30.06	R 17.58	R 13.92	30.06	R 22.47
2023	—	14.24	29.77	26.82	33.17	27.80	16.07	15.84	32.19	24.70
	Expenditures in million dollars									
1970	0.4	44.8	57.4	12.2	1.6	71.3	2.4	118.9	163.5	282.4
1975	0.1	78.1	78.3	8.3	4.2	90.8	5.2	174.2	258.0	432.2
1980	3.3	158.0	144.9	18.1	3.6	166.6	12.6	340.5	463.8	804.3
1985	4.1	217.8	136.1	16.7	5.5	158.3	24.8	405.0	1,061.8	1,466.8
1990	1.1	202.5	123.1	28.8	2.1	154.1	26.6	384.2	1,265.9	1,650.1
1995	0.9	310.9	86.2	45.1	2.5	133.8	27.8	473.3	1,497.0	1,970.3
2000	0.2	513.9	112.3	105.4	3.6	221.2	36.4	771.8	1,695.1	2,466.9
2005	—	868.8	133.4	146.0	4.2	283.6	43.9	1,196.3	2,173.4	3,369.7
2006	(s)	1,008.6	147.4	146.6	3.9	297.9	44.9	1,351.4	2,349.9	3,701.2
2007	(s)	1,110.9	143.4	154.6	1.7	299.7	54.8	1,465.4	2,569.7	4,035.1
2008	—	1,103.7	154.7	227.8	1.9	384.4	75.5	1,563.6	2,740.9	4,304.6
2009	—	1,173.8	108.3	208.9	2.6	319.7	80.0	1,573.6	2,821.8	4,395.4
2010	—	924.8	128.6	235.4	3.2	367.2	101.3	1,393.3	2,805.6	4,198.8
2011	—	1,050.3	142.2	254.1	2.3	398.6	118.1	1,567.0	3,010.5	4,577.5
2012	—	948.3	108.0	178.7	1.0	287.6	109.9	1,345.8	3,028.3	4,374.1
2013	—	947.9	R 102.7	178.4	0.7	R 281.8	140.4	R 1,370.0	3,129.4	R 4,499.4
2014	—	834.0	R 108.0	200.6	1.2	R 309.8	138.5	R 1,282.3	3,040.6	R 4,322.9
2015	—	849.2	R 70.9	133.6	0.4	R 204.9	109.1	R 1,163.2	3,098.1	R 4,261.3
2016	—	822.7	R 59.3	159.1	0.5	R 218.9	R 102.0	R 1,143.7	3,244.7	R 4,388.3
2017	—	966.7	R 92.0	221.2	0.4	R 313.6	R 118.2	R 1,398.5	3,600.6	R 4,999.1
2018	—	859.1	R 78.0	225.7	0.5	R 304.2	R 140.1	R 1,303.4	3,446.4	R 4,749.8
2019	—	883.5	R 77.9	250.8	0.7	R 329.4	R 153.5	R 1,366.4	3,544.7	R 4,911.1
2020	—	956.5	R 61.8	187.5	0.3	R 249.6	R 42.3	R 1,248.4	3,639.3	R 4,887.7
2021	—	1,041.0	R 86.3	244.4	0.6	R 331.4	R 52.5	R 1,424.8	3,843.7	R 5,268.6
2022	—	1,205.1	R 132.2	234.5	0.9	R 367.6	R 102.2	R 1,674.9	4,079.2	R 5,754.2
2023	—	1,350.2	121.8	226.8	1.5	350.1	79.5	1,779.8	4,276.7	6,056.5

[a] Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2023, Washington

Year	Primary energy										Electricity [j]	Total energy [g,h,i]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f,g]	Total [g,h,i]		
	Prices in dollars per million Btu											
1970	0.52	1.05	1.21	1.17	0.84	2.92	0.33	1.21	0.82	1.12	3.21	1.90
1975	0.90	1.75	2.60	2.58	2.31	4.62	2.45	2.87	1.62	2.06	4.10	2.94
1980	2.28	4.59	6.90	5.36	7.04	9.92	3.61	6.73	4.15	5.00	5.67	5.33
1985	2.30	5.24	5.91	9.33	11.34	9.31	4.05	6.09	4.69	5.46	10.57	7.85
1990	2.45	4.02	5.45	9.08	7.55	9.45	2.84	6.01	4.75	4.48	11.63	8.57
1995	3.11	4.80	4.92	10.27	5.12	10.07	2.75	5.59	3.86	4.87	13.65	10.06
2000	2.51	5.77	7.43	13.25	9.80	12.93	4.35	9.56	5.88	6.29	13.74	10.78
2005	—	10.13	14.14	17.71	13.66	19.24	—	15.19	9.20	10.83	18.54	15.56
2006	3.71	11.62	16.73	20.34	21.97	21.95	8.41	18.00	10.60	12.49	19.44	16.74
2007	3.86	12.07	17.92	22.09	24.09	24.12	9.97	19.75	11.71	12.95	19.20	16.80
2008	—	11.15	24.21	25.72	29.86	28.04	—	24.89	14.42	13.45	19.85	17.24
2009	—	11.90	13.50	19.70	24.92	21.24	9.36	15.88	10.83	12.43	20.44	17.26
2010	—	10.16	18.67	21.26	26.73	24.77	—	19.53	12.78	11.91	21.60	17.71
2011	—	10.11	25.01	26.04	32.08	30.54	16.84	25.59	15.36	12.40	21.96	18.06
2012	—	9.54	25.43	19.18	33.62	31.48	18.41	23.60	17.07	12.05	22.50	18.28
2013	—	8.91	24.90	20.16	33.23	29.94	17.12	23.78	15.88	11.40	22.80	18.14
2014	—	8.65	24.02	20.92	33.06	29.24	—	23.38	R 14.21	11.26	23.35	18.34
2015	—	9.20	13.61	13.11	17.05	22.35	—	R 17.37	R 10.15	11.27	24.09	18.68
2016	—	7.87	12.18	13.27	13.59	20.55	—	R 16.20	R 8.79	10.05	24.70	R 18.26
2017	—	7.69	14.96	16.76	17.00	23.64	—	R 19.59	R 10.21	10.10	25.11	R 18.35
2018	—	7.27	18.14	18.24	24.56	26.54	—	21.39	R 11.00	R 10.84	25.55	R 18.82
2019	—	6.90	16.27	14.51	22.93	25.88	—	20.31	R 10.59	9.68	25.65	R 18.30
2020	—	8.08	10.65	13.72	14.89	22.20	—	R 15.89	R 8.31	10.05	26.15	R 18.62
2021	—	8.67	17.46	21.08	23.52	28.61	—	22.89	R 10.11	12.12	26.80	R 20.02
2022	—	9.76	29.25	22.36	38.83	37.87	—	31.25	R 15.70	R 14.64	27.82	R 21.64
2023	—	11.72	24.31	18.07	33.17	36.91	—	28.24	14.86	15.57	29.07	22.94
	Expenditures in million dollars											
1970	0.2	20.4	15.7	1.3	0.1	4.7	1.0	22.7	(s)	43.4	73.6	117.0
1975	0.2	58.2	23.0	1.0	0.3	9.1	5.5	38.9	0.1	97.4	145.3	242.7
1980	6.6	148.7	43.1	3.2	0.7	24.9	9.7	81.6	0.3	237.2	267.8	505.0
1985	9.1	193.3	143.1	4.9	13.2	17.4	19.0	197.7	0.6	400.7	683.7	1,084.4
1990	2.8	160.0	59.2	5.7	0.6	14.0	0.9	80.4	2.9	246.2	853.4	1,099.6
1995	4.8	212.9	36.2	12.1	0.4	3.1	1.9	53.7	3.8	275.2	1,113.9	1,389.1
2000	1.2	303.8	39.0	26.2	0.7	18.5	0.7	85.0	6.1	396.0	1,314.4	1,710.4
2005	—	518.8	85.4	27.3	3.7	13.7	—	130.1	7.0	656.0	1,777.8	2,433.7
2006	(s)	614.0	98.8	36.8	2.8	15.6	(s)	154.0	7.5	775.5	1,896.1	2,671.6
2007	(s)	664.7	81.2	40.2	1.4	20.9	(s)	143.7	8.8	817.2	1,939.5	2,756.7
2008	—	645.8	187.4	75.8	1.1	23.2	—	287.5	11.5	944.8	2,023.6	2,968.4
2009	—	682.8	79.3	51.3	0.8	15.0	(s)	146.5	11.3	840.6	2,096.8	2,937.4
2010	—	538.5	164.6	59.0	0.7	12.2	—	236.5	13.2	788.1	2,125.2	2,913.3
2011	—	587.5	169.1	68.2	0.6	15.9	(s)	253.8	15.2	856.5	2,203.3	3,059.8
2012	—	524.6	171.9	78.7	0.2	22.8	(s)	273.6	14.9	813.1	2,244.3	3,057.4
2013	—	514.0	R 169.0	71.4	0.3	25.2	(s)	R 265.9	16.9	R 796.8	2,307.2	R 3,104.0
2014	—	491.7	R 179.8	78.4	0.5	21.1	—	R 279.7	R 16.7	R 788.2	2,313.6	R 3,101.7
2015	—	488.4	R 101.9	36.7	0.1	179.9	—	R 318.6	R 14.8	R 821.8	2,405.6	R 3,227.4
2016	—	438.4	R 91.8	44.1	0.3	189.5	—	R 325.6	R 15.9	R 779.8	2,443.4	R 3,223.3
2017	—	498.8	R 63.7	72.0	0.2	186.3	—	R 322.3	R 18.9	R 840.0	2,553.3	R 3,393.3
2018	—	450.4	R 144.0	90.9	0.2	213.6	—	R 448.6	R 18.4	R 917.4	2,562.2	R 3,479.7
2019	—	457.0	R 70.0	68.9	0.4	208.7	—	R 348.0	R 19.4	R 824.4	2,561.4	R 3,385.8
2020	—	486.6	R 82.4	66.6	0.3	180.0	—	R 329.2	R 8.5	R 824.4	2,436.5	R 3,260.8
2021	—	542.3	R 119.2	111.0	0.3	233.1	—	R 463.6	R 10.2	R 1,016.1	2,618.5	R 3,634.6
2022	—	670.7	R 195.3	109.0	0.4	323.6	—	R 628.3	R 15.7	R 1,314.7	2,827.2	R 4,141.9
2023	—	764.8	163.4	84.6	0.7	314.2	—	562.9	14.4	1,342.1	3,012.1	4,354.2

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[g] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[j] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: Expenditure totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2023, Washington

Year	Primary energy												Electricity [i]	Total energy [f,g,h]
	Coal			Natural gas [a]	Petroleum						Biomass	Total [f,g,h]		
	Coking coal	Steam coal	Total		Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e,f]			
	Prices in dollars per million Btu													
1970	—	0.52	0.52	0.38	0.73	1.23	2.92	0.33	0.76	0.67	1.45	0.60	0.97	0.70
1975	—	0.90	0.90	1.29	2.05	2.81	4.62	1.78	1.71	1.86	1.45	1.57	1.37	1.51
1980	—	2.28	2.28	4.09	6.06	5.84	9.92	3.36	3.63	4.26	1.45	3.84	2.26	3.29
1985	—	2.30	2.30	4.58	6.18	10.47	9.31	4.05	3.54	4.49	1.45	4.12	6.23	4.80
1990	—	2.45	2.45	2.64	5.51	10.12	9.45	2.84	2.74	3.74	0.97	2.83	7.00	4.32
1995	—	3.11	3.11	2.63	5.36	10.71	10.07	2.75	2.61	3.62	1.23	2.77	8.67	4.52
2000	—	2.48	2.48	3.85	8.27	12.68	12.93	4.35	2.75	4.58	1.42	3.77	9.68	5.63
2005	—	3.31	3.31	9.97	15.02	20.46	19.24	7.11	4.45	8.08	2.72	7.38	12.50	8.82
2006	—	3.71	3.71	9.58	17.60	22.88	21.95	8.41	4.85	9.52	2.68	7.34	13.00	8.71
2007	—	3.86	3.86	9.55	18.44	26.30	24.12	9.97	5.54	10.62	2.51	8.31	13.39	9.63
2008	—	4.86	4.86	10.24	25.25	31.53	28.04	13.45	6.58	14.07	2.83	10.34	13.25	11.06
2009	—	4.81	4.81	11.34	15.18	24.90	21.24	—	6.71	10.01	2.67	8.86	12.90	10.05
2010	—	5.67	5.67	9.07	19.23	22.93	24.77	—	R 10.26	R 14.40	2.72	8.93	11.94	9.86
2011	—	6.18	6.18	9.20	26.03	28.55	30.54	16.84	R 13.21	R 20.06	2.79	10.37	11.98	R 10.90
2012	—	5.87	5.87	8.52	26.30	19.88	31.48	18.41	R 11.45	R 17.59	2.65	R 9.34	12.10	R 10.20
2013	—	6.09	6.09	8.10	24.88	21.12	29.94	17.12	R 13.77	R 19.36	2.63	R 9.52	12.40	R 10.50
2014	—	6.08	6.08	8.19	22.69	22.08	29.24	—	R 13.41	R 18.17	3.20	R 9.45	12.67	R 10.57
2015	—	5.99	5.99	8.41	16.01	12.22	22.35	—	R 9.97	R 12.65	3.11	R 8.07	12.75	R 9.56
2016	—	5.64	5.64	6.92	13.08	12.42	20.55	—	R 9.87	R 11.90	3.01	R 7.07	12.99	R 8.90
2017	—	6.24	6.24	6.84	19.50	15.87	23.64	8.40	11.54	15.45	2.94	8.05	13.49	9.75
2018	—	5.89	5.89	6.60	19.98	17.33	26.54	11.36	13.72	17.43	2.67	8.71	13.82	10.31
2019	—	5.78	5.78	6.32	17.72	13.58	25.88	—	14.06	16.64	2.62	8.38	14.08	10.18
2020	—	5.90	5.90	7.12	12.36	12.77	22.20	—	R 16.87	R 14.92	2.13	7.71	14.89	10.00
2021	—	6.01	6.01	7.56	18.66	20.07	28.61	13.15	R 21.95	R 21.08	2.70	R 9.57	17.03	R 11.89
2022	—	6.56	6.56	8.82	29.29	21.29	37.87	21.38	R 29.10	R 29.37	R 2.94	R 13.03	18.08	14.61
2023	—	8.26	8.26	10.42	24.72	16.96	36.91	19.95	25.90	26.25	3.22	12.33	18.60	14.30
	Expenditures in million dollars													
1970	—	2.7	2.7	32.0	19.6	1.1	8.4	13.1	40.4	82.5	19.3	136.5	79.7	216.1
1975	—	9.8	9.8	106.0	44.8	1.8	10.6	47.9	102.3	207.3	18.3	341.4	120.6	462.0
1980	—	16.2	16.2	220.5	150.7	10.5	14.5	113.3	148.6	437.7	27.7	702.1	221.7	923.8
1985	—	10.3	10.3	274.9	96.3	40.5	33.8	121.8	199.2	491.6	32.4	809.3	585.8	1,395.1
1990	—	12.7	12.7	190.8	126.8	31.1	32.7	24.2	197.8	412.5	44.7	660.8	913.7	1,574.6
1995	—	13.2	13.2	280.4	114.8	29.8	29.1	8.6	190.4	372.6	59.7	725.9	957.0	1,683.0
2000	—	7.0	7.0	300.3	140.9	138.6	35.8	8.7	263.1	587.2	63.4	957.9	1,121.0	2,078.9
2005	—	4.9	4.9	619.0	250.4	(s)	126.0	0.1	231.5	607.9	120.8	1,352.5	891.1	2,243.6
2006	—	7.4	7.4	622.7	374.4	12.8	149.2	0.1	273.7	810.2	186.2	1,626.6	923.4	2,550.0
2007	—	12.3	12.3	638.2	418.8	12.6	120.1	—	275.7	827.3	107.3	1,585.1	894.7	2,479.8
2008	—	14.4	14.4	700.6	713.9	99.6	125.4	0.1	380.6	1,319.6	123.4	2,157.9	901.0	3,058.9
2009	—	16.9	16.9	731.2	247.2	63.0	91.7	—	345.9	747.8	99.8	1,595.7	972.6	2,568.3
2010	—	15.5	15.5	576.5	328.3	79.3	139.8	—	R 422.8	R 970.2	161.3	R 1,723.5	1,028.1	R 2,751.5
2011	—	11.3	11.3	618.8	433.0	144.6	174.8	1.8	R 389.1	R 1,143.3	171.2	R 1,944.6	1,079.8	R 3,024.3
2012	—	12.3	12.3	589.4	383.4	93.3	176.2	1.6	R 401.6	R 1,055.9	171.3	R 1,829.0	1,076.3	R 2,905.3
2013	—	12.2	12.2	397.6	368.6	112.4	172.5	(s)	R 374.0	R 1,027.6	170.4	R 1,607.8	1,084.3	R 2,692.2
2014	—	16.5	16.5	392.5	324.1	112.6	150.8	—	R 397.7	R 985.2	205.9	R 1,600.1	1,139.5	R 2,739.7
2015	—	11.5	11.5	416.9	283.3	59.3	113.0	—	R 397.2	R 852.8	201.5	R 1,482.8	1,097.5	R 2,580.2
2016	—	10.6	10.6	338.3	241.3	59.3	102.3	—	R 329.1	R 732.0	213.5	R 1,294.4	1,065.4	R 2,359.8
2017	—	8.9	8.9	352.8	344.1	41.8	119.1	(s)	336.5	841.5	194.5	1,397.6	1,070.3	2,467.8
2018	—	8.1	8.1	330.4	444.0	56.2	136.0	0.4	379.1	1,015.7	176.9	1,531.1	1,113.9	2,645.0
2019	—	8.6	8.6	307.7	439.3	24.4	131.9	—	R 372.4	R 968.1	170.6	R 1,454.9	1,128.8	R 2,583.7
2020	—	9.1	9.1	289.0	317.7	27.2	114.1	—	R 286.4	R 745.4	127.6	R 1,171.1	1,057.8	R 2,228.9
2021	—	8.9	8.9	317.8	375.1	63.8	144.4	0.4	R 354.8	R 938.5	166.3	R 1,431.5	1,150.3	R 2,581.8
2022	—	9.6	9.6	375.1	594.6	100.0	198.6	0.7	R 472.2	R 1,366.1	R 166.9	R 1,917.7	1,206.5	R 3,124.2
2023	—	11.6	11.6	399.0	489.7	38.8	197.7	0.6	374.9	1,101.7	178.6	1,690.9	1,173.5	2,864.4

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[i] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET6. Transportation sector energy price and expenditure estimates, selected years, 1970-2023, Washington

Year	Primary energy											Electricity [g]	Total energy [f]
			Petroleum										
	Coal	Natural gas[a]	Aviation gasoline	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Lubricants	Motor gasoline [e]	Residual fuel oil	Total	Total [f]		
	Prices in dollars per million Btu												
1970	0.52	—	2.17	1.32	1.17	0.73	5.08	2.92	0.30	2.23	2.23	2.16	2.23
1975	0.90	—	3.45	2.65	2.58	2.04	7.48	4.62	2.14	3.73	3.73	3.20	3.73
1980	—	—	9.02	6.72	5.36	6.21	14.36	9.92	3.15	7.86	7.86	4.26	7.86
1985	—	—	9.99	8.77	9.20	6.03	18.18	9.31	5.02	8.24	8.24	8.28	8.24
1990	—	3.93	9.32	9.04	9.05	5.68	20.61	9.45	2.69	7.55	7.55	8.08	7.55
1995	—	5.40	8.36	8.76	10.97	4.20	21.75	10.07	2.13	7.40	7.40	9.30	7.40
2000	—	3.79	10.87	11.80	13.85	6.92	23.20	12.93	3.96	10.81	10.81	9.47	10.81
2005	—	4.25	18.56	19.06	19.23	12.81	35.22	19.24	5.63	17.05	17.04	18.86	17.04
2006	—	6.03	22.31	21.12	21.03	14.96	43.88	21.95	7.29	19.75	19.74	17.38	19.74
2007	—	6.50	23.70	22.31	26.84	16.14	47.16	24.12	8.20	20.90	20.89	16.82	20.89
2008	—	14.98	27.23	28.72	31.75	22.79	55.12	28.04	16.39	26.76	26.75	17.06	26.75
2009	—	11.63	20.32	19.11	25.11	12.61	56.07	21.24	12.57	18.80	18.79	17.31	18.79
2010	—	12.48	25.19	22.89	28.19	16.27	58.80	24.77	15.32	22.72	22.71	21.76	22.71
2011	—	9.60	31.64	29.06	32.83	22.49	69.54	30.54	20.92	28.53	28.51	25.03	28.51
2012	—	10.74	33.04	30.48	24.72	22.61	72.11	31.48	23.28	29.44	29.42	23.63	29.42
2013	—	R 11.13	32.71	29.59	25.88	21.88	69.42	29.94	22.36	28.19	28.17	23.57	28.17
2014	—	R 11.05	33.16	28.73	26.78	20.55	69.44	29.24	21.60	27.55	27.54	24.85	27.54
2015	—	R 10.84	24.86	20.57	17.87	12.16	67.28	22.35	11.63	19.72	19.71	23.99	19.71
2016	—	R 12.27	21.62	18.22	18.78	9.85	65.78	20.55	8.45	16.72	R 16.72	26.04	R 16.72
2017	—	R 13.23	24.13	21.17	23.55	11.99	67.25	23.64	11.94	19.92	19.92	26.91	19.92
2018	—	R 12.81	27.04	25.06	24.79	15.74	72.37	26.54	14.93	23.52	23.51	27.51	23.51
2019	—	R 12.93	25.57	24.15	22.23	14.70	74.92	25.88	14.06	22.53	22.52	27.69	22.53
2020	—	R 13.23	22.34	20.38	21.09	9.75	75.34	22.20	10.25	19.34	19.34	29.11	19.35
2021	—	R 12.36	28.86	26.01	29.22	14.32	81.25	28.61	15.49	24.37	R 24.36	29.00	24.37
2022	—	R 16.51	36.02	38.88	28.49	26.03	97.37	37.87	26.84	34.90	34.89	29.45	34.89
2023	—	20.39	32.62	34.20	23.40	20.86	105.48	36.91	22.09	32.04	32.04	29.80	32.03
	Expenditures in million dollars												
1970	(s)	—	3.8	30.3	0.2	43.3	12.3	540.2	3.8	633.9	633.9	(s)	634.0
1975	(s)	—	4.8	102.2	0.4	160.7	19.4	974.5	28.3	1,290.3	1,290.3	(s)	1,290.3
1980	—	—	16.2	375.8	1.9	419.5	43.6	2,183.1	200.3	3,240.3	3,240.3	(s)	3,240.3
1985	—	—	10.2	517.8	11.6	522.2	50.3	2,100.7	173.4	3,386.3	3,386.7	0.4	3,387.1
1990	—	0.2	14.7	611.0	10.1	716.0	64.1	2,607.9	240.5	4,264.4	4,271.2	0.4	4,271.7
1995	—	0.5	9.7	718.0	7.6	547.6	64.6	3,051.8	221.2	4,620.4	4,620.9	0.6	4,621.5
2000	—	1.0	18.2	1,287.4	0.9	969.9	73.6	4,185.5	165.0	6,700.6	6,701.6	0.6	6,702.2
2005	—	2.3	24.5	2,167.0	17.6	1,342.0	94.2	6,373.8	275.3	10,294.5	10,296.8	0.1	10,296.9
2006	—	3.1	20.7	2,932.1	19.7	1,577.0	114.4	7,314.5	284.0	12,262.4	12,265.5	0.1	12,265.6
2007	—	3.4	21.1	3,172.5	17.3	1,871.6	126.9	8,031.4	514.6	13,755.4	13,758.8	0.1	13,758.8
2008	—	7.6	18.2	3,758.9	50.7	2,598.1	137.7	8,997.8	464.0	16,025.4	16,033.0	0.1	16,033.1
2009	—	6.1	11.4	R 2,180.8	22.1	1,308.4	126.0	6,873.8	552.1	R 11,074.6	R 11,080.7	0.2	R 11,080.9
2010	—	5.6	20.4	R 2,528.2	2.1	1,216.5	183.4	7,856.7	622.8	R 12,430.2	R 12,435.8	0.5	R 12,436.3
2011	—	5.0	27.8	R 3,505.7	2.6	1,690.8	214.4	9,592.7	1,021.6	R 16,055.6	R 16,060.7	0.6	R 16,061.3
2012	—	5.7	31.2	R 3,383.2	1.8	1,659.7	216.6	9,796.4	1,448.2	R 16,537.1	R 16,542.8	0.6	R 16,543.4
2013	—	R 4.8	27.1	R 3,149.0	2.2	1,741.5	224.6	9,693.5	1,346.3	R 16,184.2	R 16,189.0	0.5	R 16,189.5
2014	—	R 5.6	12.3	R 3,252.4	2.6	1,693.5	228.8	9,438.6	881.6	R 15,509.9	R 15,515.5	0.4	R 15,515.9
2015	—	R 5.1	11.7	R 2,491.6	2.3	1,121.5	250.6	7,287.6	639.1	R 11,804.4	R 11,809.5	0.4	R 11,810.0
2016	—	R 6.6	9.5	R 2,305.7	3.9	977.7	240.4	6,668.8	950.4	R 11,156.5	R 11,163.0	0.5	R 11,163.5
2017	—	R 2.9	10.5	R 2,606.8	5.6	1,255.9	211.7	7,689.8	1,026.5	R 12,806.8	R 12,809.7	0.7	R 12,810.3
2018	—	R 2.5	13.9	R 3,274.7	4.8	R 1,653.8	219.2	8,960.1	967.3	R 15,093.8	R 15,096.4	0.7	R 15,097.0
2019	—	R 2.4	14.7	R 3,149.9	10.4	R 1,634.1	233.4	8,808.4	1,076.5	R 14,927.6	R 14,929.9	9.3	R 14,939.3
2020	—	R 1.8	11.1	R 2,361.2	8.0	R 683.8	R 174.7	5,890.3	381.3	R 9,510.3	R 9,512.1	9.7	R 9,521.8
2021	—	R 1.8	16.2	R 3,189.2	22.3	R 1,301.3	223.3	8,351.6	1,198.9	R 14,303.0	R 14,304.8	10.2	R 14,315.1
2022	—	4.1	21.0	R 4,844.6	10.7	R 2,645.6	R 274.9	11,087.8	2,129.0	R 21,013.5	R 21,017.6	11.4	R 21,029.0
2023	—	5.4	18.0	4,477.7	9.1	2,303.3	219.5	11,053.6	1,454.5	19,535.7	19,541.1	8.8	19,549.9

[a] Transportation use of natural gas as vehicle fuel only.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET7. Electric power sector price and expenditure estimates, selected years, 1970-2023, Washington

Year	Coal	Natural gas [a]	Petroleum: Distillate fuel oil	Petroleum: Petroleum coke	Petroleum: Residual fuel oil	Petroleum: Total	Nuclear fuel	Biomass: Wood and waste [b]	Electricity imports [c]	Total energy [d]
	Prices in dollars per million Btu									
1970	—	—	0.38	—	0.32	0.33	0.18	0.65	1.92	0.35
1975	0.57	—	2.43	—	2.50	2.50	0.24	—	3.89	0.76
1980	0.96	3.43	6.40	—	3.58	3.93	0.43	—	6.94	1.49
1985	1.65	4.54	5.72	—	—	5.72	0.71	0.79	9.34	1.85
1990	1.58	3.03	5.15	—	3.05	5.09	0.47	0.61	8.37	1.14
1995	1.44	4.38	4.85	—	—	4.85	0.42	0.78	6.21	1.77
2000	1.69	5.09	6.64	0.43	—	6.64	0.47	1.11	16.78	2.98
2005	1.43	6.49	10.92	—	—	10.92	0.42	1.83	16.53	2.80
2006	1.68	5.66	19.99	—	—	19.99	0.48	2.02	17.32	2.75
2007	1.85	6.01	16.19	—	—	16.19	0.47	2.28	18.25	3.14
2008	2.19	8.31	27.57	—	—	27.57	0.48	2.45	18.28	3.87
2009	2.24	5.14	16.80	—	—	16.80	0.57	3.08	12.10	3.29
2010	2.22	5.36	19.87	—	—	19.87	0.65	3.23	13.31	2.93
2011	2.21	5.52	27.02	—	—	27.02	0.70	3.03	11.53	3.21
2012	1.89	4.35	24.73	—	—	24.73	0.77	2.66	9.51	2.23
2013	1.96	4.50	23.60	—	—	23.60	0.84	1.92	11.49	2.68
2014	2.49	4.92	16.63	—	—	16.63	0.80	2.33	13.31	2.89
2015	2.38	3.48	11.29	—	—	11.29	0.71	2.13	10.54	2.65
2016	2.25	3.41	12.29	—	—	12.29	0.67	1.30	8.74	2.13
2017	2.32	3.37	17.51	—	—	17.51	0.76	1.22	9.18	2.30
2018	2.34	2.94	17.24	—	—	17.24	0.75	1.74	10.74	2.06
2019	2.27	3.32	16.52	—	—	16.52	0.69	1.82	9.20	2.37
2020	2.18	2.86	13.73	—	—	13.73	0.65	1.78	8.38	2.40
2021	2.80	4.04	16.50	—	—	16.50	0.61	1.93	12.82	3.30
2022	3.19	6.68	23.43	—	—	23.43	0.64	2.25	19.84	R 4.76
2023	3.79	5.78	25.90	—	—	25.90	0.66	2.68	18.72	3.97
	Expenditures in million dollars									
1970	—	—	(s)	—	(s)	(s)	5.2	(s)	5.9	11.1
1975	36.7	—	0.1	—	1.1	1.2	8.7	—	38.1	84.6
1980	77.1	3.3	1.1	—	4.5	5.7	9.6	—	77.9	173.6
1985	139.0	0.4	0.6	—	—	0.6	60.3	2.3	146.1	348.7
1990	124.4	0.6	0.9	—	(s)	0.9	28.8	2.3	8.0	165.1
1995	91.6	181.4	6.6	—	—	6.6	30.3	4.6	18.7	333.3
2000	173.7	388.4	30.2	(s)	—	30.2	41.9	10.9	243.8	888.9
2005	158.4	437.0	1.3	—	—	1.3	35.8	20.4	142.9	795.8
2006	112.8	341.6	4.6	—	—	4.6	46.9	21.9	143.6	671.4
2007	171.2	352.4	2.6	—	—	2.6	39.6	25.6	225.5	816.8
2008	200.7	638.4	7.2	—	—	7.2	46.2	18.8	185.4	1,096.7
2009	180.4	483.0	6.9	—	—	6.9	39.5	23.9	130.1	863.8
2010	204.7	439.0	4.2	—	—	4.2	63.2	33.2	100.4	844.8
2011	121.8	222.7	4.8	—	—	4.8	35.0	27.8	119.8	531.9
2012	76.8	192.5	3.8	—	—	3.8	74.9	16.8	72.9	437.7
2013	142.6	402.9	3.4	—	—	3.4	74.0	14.7	74.0	711.6
2014	183.8	433.9	2.8	—	—	2.8	79.1	18.1	76.6	794.3
2015	134.3	360.1	1.4	—	—	1.4	60.9	17.6	130.1	704.4
2016	115.5	299.9	1.7	—	—	1.7	67.1	11.0	45.1	540.4
2017	139.8	293.5	2.8	—	—	2.8	64.2	10.1	56.9	567.3
2018	140.1	245.2	2.6	—	—	2.6	75.6	13.5	52.6	529.6
2019	180.2	382.2	2.1	—	—	2.1	63.5	11.1	75.6	714.9
2020	126.3	293.8	1.8	—	—	1.8	63.8	10.2	195.4	691.3
2021	99.2	491.5	2.1	—	—	2.1	54.3	11.8	233.2	892.2
2022	130.0	700.3	6.3	—	—	6.3	66.2	13.7	391.7	1,308.0
2023	182.2	851.7	6.3	—	—	6.3	57.7	16.7	47.5	1,162.2

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[c] Electricity imported from Canada and Mexico.
[d] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET1. Primary energy, electricity, and total energy price and expenditure estimates, selected years, 1970-2023, West Virginia

Year	Primary energy														Electric power sector [i,k,l]	Electricity [m]	Total energy [h,i,j]
	Coal			Natural gas [a]	Petroleum							Nuclear fuel	Biomass				
	Coking coal	Steam coal	Total		Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total		Wood and waste [g,h]	Total [h,i,j,k]			
	Prices in dollars per million Btu																
1970	0.40	0.28	0.31	0.62	1.40	1.70	0.73	2.86	0.58	1.53	2.15	—	1.16	0.67	0.26	3.96	1.15
1975	1.51	0.94	1.02	1.16	3.36	3.35	2.05	4.61	1.89	3.55	3.93	—	1.47	1.53	0.88	8.30	2.80
1980	1.86	1.41	1.46	3.18	7.24	6.37	6.46	9.96	3.33	7.39	8.36	—	2.79	2.88	1.43	10.58	5.55
1985	1.93	1.59	1.61	5.28	8.02	9.72	6.87	9.19	4.01	8.50	8.59	—	3.09	3.07	1.62	14.19	7.30
1990	1.80	1.45	1.47	4.40	7.68	11.58	6.41	9.96	2.68	7.26	8.70	—	2.97	2.99	1.48	13.90	6.81
1995	1.57	1.28	1.29	4.54	7.13	9.53	3.88	10.04	2.68	6.60	8.66	—	2.52	2.88	1.28	15.68	7.51
2000	1.66	1.21	1.23	5.46	10.43	14.46	6.50	11.85	4.43	7.37	10.85	—	3.56	3.11	1.22	14.91	8.78
2005	3.02	1.55	1.60	11.11	16.40	20.47	12.64	18.48	7.18	8.20	16.14	—	6.19	4.88	1.56	15.18	13.24
2006	3.35	1.69	1.74	11.33	18.36	22.93	14.64	20.82	8.34	8.85	18.11	—	7.03	5.42	1.70	14.84	14.39
2007	3.54	1.84	1.91	10.87	19.85	25.22	15.96	23.19	9.60	9.66	19.74	—	7.81	5.72	1.87	15.72	15.02
2008	4.42	2.38	2.46	12.05	26.52	29.19	22.53	27.41	13.88	12.02	24.41	—	9.69	7.01	2.39	16.52	17.64
2009	5.21	2.68	2.78	10.89	17.45	24.35	12.74	20.10	9.51	19.75	19.12	—	7.63	6.56	2.67	19.56	15.98
2010	5.50	2.52	2.66	8.42	20.40	29.03	16.39	23.74	12.36	R 23.45	R 22.81	—	8.83	R 6.78	2.52	21.89	R 17.41
2011	6.62	2.50	2.71	7.87	26.60	36.13	23.39	30.13	16.75	R 25.78	R 28.88	—	10.72	R 7.94	2.52	23.16	R 20.51
2012	6.30	2.60	2.73	7.20	27.60	29.74	23.19	30.85	18.08	R 27.01	R 29.18	—	11.80	R 8.20	2.59	23.91	R 21.18
2013	5.50	2.54	2.62	6.98	27.10	31.75	22.30	30.13	18.15	R 28.10	R 28.88	—	11.82	R 7.99	2.53	23.20	R 20.61
2014	4.49	2.43	2.49	7.27	26.21	34.01	20.96	29.02	17.01	R 28.99	R 28.26	—	11.64	R 7.54	2.47	22.44	R 20.06
2015	3.91	2.36	2.40	R 6.23	R 18.35	21.41	12.24	20.65	9.40	R 22.32	R 19.93	—	7.76	R 6.11	2.34	23.79	R 16.85
2016	3.51	2.29	2.32	R 5.17	15.98	19.22	10.04	18.84	7.38	R 18.08	R 17.67	—	6.70	R 5.58	2.26	26.32	R 16.42
2017	3.86	2.25	2.28	R 5.36	18.01	23.93	12.18	20.97	—	21.96	20.02	—	R 7.50	6.08	2.23	26.40	17.57
2018	4.17	2.15	2.20	5.86	21.52	27.88	15.50	22.81	10.19	24.82	22.63	—	R 8.05	7.22	2.15	25.55	R 18.76
2019	4.75	2.13	2.21	R 5.33	20.29	20.49	14.45	21.26	9.71	R 22.91	20.88	—	7.76	6.82	2.12	24.89	R 17.79
2020	4.07	2.05	2.11	4.86	16.95	19.51	10.41	17.88	7.64	R 20.40	R 17.78	—	R 5.97	5.95	2.01	25.65	R 16.45
2021	3.81	1.98	2.05	5.99	R 21.82	34.06	14.39	24.91	11.42	R 24.25	24.18	—	R 6.94	R 7.40	2.05	26.01	R 19.57
2022	6.26	2.34	2.37	R 7.92	R 34.43	26.96	25.06	32.00	17.01	R 33.09	R 32.68	—	R 11.06	R 10.46	2.49	28.57	R 25.49
2023	—	2.89	2.89	6.82	29.19	23.84	20.28	28.83	15.00	27.76	28.52	—	9.96	10.26	2.81	30.08	24.29
	Expenditures in million dollars																
1970	55.3	132.2	187.5	108.3	31.9	7.7	1.2	237.6	7.5	43.9	329.9	—	4.7	630.4	-89.9	204.3	744.7
1975	178.3	655.6	833.9	171.0	114.2	18.1	2.8	467.7	26.2	136.0	765.0	—	6.6	1,776.5	-531.0	477.3	1,722.7
1980	190.2	1,063.5	1,253.7	415.1	441.1	78.1	12.9	1,014.2	24.8	217.7	1,788.8	—	10.7	3,468.3	-997.7	748.8	3,219.4
1985	72.4	1,326.1	1,398.6	510.6	484.9	38.9	9.0	894.2	22.2	206.1	1,655.3	—	14.0	3,578.5	-1,261.8	1,000.4	3,317.1
1990	93.1	1,194.5	1,287.6	471.2	473.5	63.3	9.8	1,027.7	18.4	192.5	1,785.2	—	5.9	3,549.9	-1,109.2	1,088.7	3,529.4
1995	75.3	1,051.3	1,126.5	539.1	464.5	63.5	3.8	1,092.0	2.3	147.4	1,773.5	—	7.3	3,446.4	-994.5	1,375.2	3,827.1
2000	67.8	1,132.5	1,200.3	595.7	759.2	82.6	7.0	1,196.8	5.5	168.4	2,219.4	—	7.5	4,022.8	-1,094.6	1,395.3	4,323.5
2005	93.9	1,441.4	1,535.3	1,019.2	1,362.4	78.9	17.1	1,938.1	13.4	271.4	3,681.2	—	29.8	6,265.5	-1,409.0	1,533.7	6,390.2
2006	95.7	1,576.5	1,672.2	1,033.6	1,592.7	126.2	19.2	2,194.0	13.8	299.4	4,245.4	—	30.7	6,981.8	-1,546.7	1,609.3	7,044.4
2007	136.4	1,739.0	1,875.4	994.9	1,692.2	110.5	21.3	2,410.7	50.3	319.2	4,604.1	—	37.1	7,511.4	-1,722.4	1,801.1	7,590.2
2008	178.6	2,174.0	2,352.6	1,055.4	2,214.3	143.3	29.0	2,598.6	48.1	432.0	5,465.3	—	50.3	8,923.6	-2,143.6	1,892.2	8,672.2
2009	146.1	1,916.6	2,062.7	844.1	R 1,268.3	107.2	14.3	2,050.5	4.7	300.6	R 3,745.7	—	65.3	R 6,717.8	-1,866.5	1,983.5	R 6,834.8
2010	222.0	2,034.2	2,256.3	700.3	1,558.4	418.1	21.7	2,461.1	2.9	R 290.6	R 4,752.8	—	82.0	R 7,791.4	-1,980.9	2,360.2	R 8,170.7
2011	269.9	1,957.2	2,227.1	624.5	R 2,025.6	511.6	33.3	2,972.5	4.7	R 355.9	R 5,903.6	—	95.6	R 8,850.8	-1,926.9	2,430.5	R 9,354.4
2012	160.3	1,902.0	2,062.2	542.5	R 2,041.4	408.8	32.2	2,974.9	25.5	R 339.8	R 5,822.6	—	89.5	R 8,516.8	-1,835.5	2,482.0	R 9,163.3
2013	117.5	1,904.4	2,021.9	594.7	R 2,062.5	493.8	26.4	2,864.6	19.0	R 332.0	R 5,798.3	—	112.2	R 8,527.1	-1,846.4	2,483.3	R 9,164.0
2014	97.5	1,933.3	2,030.8	678.4	R 1,925.2	477.6	23.4	2,855.7	7.7	R 321.8	R 5,611.4	—	R 110.8	R 8,431.4	-1,925.7	2,499.5	R 9,005.1
2015	75.3	1,676.9	1,752.2	R 581.8	R 1,257.9	298.0	15.2	2,012.6	5.8	R 303.7	R 3,893.2	—	R 36.9	R 6,264.1	-1,651.8	2,618.7	R 7,231.0
2016	57.2	1,683.9	1,741.1	R 493.6	R 1,227.1	252.7	12.8	1,874.9	2.5	R 275.6	R 3,645.7	—	R 29.0	R 5,909.3	-1,660.6	2,877.2	R 7,126.0
2017	62.4	1,558.7	1,621.1	R 535.8	R 1,378.0	308.6	15.8	2,024.5	—	237.3	R 3,964.1	—	R 31.1	R 6,152.1	-1,552.3	2,852.9	R 7,452.6
2018	75.4	1,381.2	1,456.6	R 626.7	R 2,082.3	370.6	R 17.2	2,304.0	0.2	305.3	R 5,079.7	—	R 39.6	R 7,202.9	-1,389.0	2,930.4	R 8,744.3
2019	89.6	1,285.2	1,374.8	R 570.8	R 1,732.3	299.4	17.0	2,132.9	1.0	R 309.3	R 4,491.9	—	R 37.4	R 6,475.0	-1,296.4	2,821.1	R 7,999.6
2020	72.9	1,067.4	1,140.4	520.2	R 1,215.6	282.5	9.4	1,521.0	0.2	R 257.7	R 3,286.3	—	R 16.3	R 4,963.2	-1,079.0	2,803.2	R 6,687.4
2021	86.6	1,211.8	1,298.5	R 665.4	R 1,894.0	492.1	13.9	2,392.3	0.5	R 313.7	R 5,106.5	—	R 19.8	R 7,090.1	-1,284.3	2,904.3	R 8,710.1
2022	26.8	1,246.2	1,273.0	R 868.6	R 3,018.2	405.5	R 24.6	2,959.4	0.8	R 381.8	R 6,790.3	—	R 35.8	R 8,967.8	-1,357.9	3,210.2	R 10,820.1
2023	—	1,363.7	1,363.7	840.4	2,512.4	339.8	28.2	2,851.1	0.6	369.1	6,101.1	—	28.8	8,334.0	-1,410.6	3,287.6	10,211.0

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[l] Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
[m] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET2. Total end-use energy price and expenditure estimates, selected years, 1970-2023, West Virginia

Year	Primary energy											Electricity [k]	Total energy [h,i,j]
			Petroleum							Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g,h]	Total [h,i,j]		
	Prices in dollars per million Btu												
1970	0.38	0.62	1.40	1.70	0.73	2.86	0.48	1.53	2.17	1.16	0.91	3.96	1.15
1975	1.43	1.16	3.36	3.35	2.03	4.61	1.92	3.55	3.98	1.47	2.23	8.30	2.80
1980	1.70	3.18	7.31	6.37	6.46	9.96	3.33	7.39	8.40	2.79	4.85	10.58	5.55
1985	1.63	5.28	8.10	9.72	6.87	9.19	4.01	8.50	8.61	3.09	6.03	14.19	7.30
1990	1.49	4.40	7.75	11.58	6.41	9.96	2.68	7.26	8.73	2.97	5.54	13.90	6.81
1995	1.46	4.55	7.22	9.53	3.88	10.04	2.68	6.60	8.71	2.52	5.81	15.68	7.51
2000	1.47	5.46	10.55	14.46	6.50	11.85	4.43	7.37	10.89	3.76	7.34	14.91	8.78
2005	2.84	11.15	16.50	20.47	12.64	18.48	7.18	8.20	16.17	6.20	12.72	15.18	13.24
2006	3.04	11.49	18.46	22.93	14.64	20.82	8.34	8.85	18.14	7.03	14.26	14.84	14.39
2007	3.17	11.02	19.94	25.22	15.96	23.19	9.60	9.66	19.78	7.81	14.81	15.72	15.02
2008	4.06	12.11	26.60	29.19	22.53	27.41	13.88	12.02	24.42	9.69	17.99	16.52	17.64
2009	4.79	10.99	17.53	24.35	12.74	20.10	9.51	19.75	19.16	7.63	14.86	19.56	15.98
2010	4.86	8.49	20.47	29.03	16.39	23.74	12.36	R 23.45	R 22.85	8.83	R 16.08	21.89	R 17.41
2011	5.66	7.97	26.69	36.13	23.39	30.13	16.75	R 25.78	R 28.93	10.85	R 19.72	23.16	R 20.51
2012	5.32	7.33	27.69	29.74	23.19	30.85	18.08	R 27.01	R 29.23	11.95	R 20.31	23.91	R 21.18
2013	4.79	7.10	27.17	31.75	22.30	30.13	18.15	R 28.10	R 28.92	11.86	R 19.79	23.20	R 20.61
2014	4.08	7.38	26.31	34.01	20.96	29.02	17.01	R 28.99	R 28.31	11.69	R 19.28	22.44	R 20.06
2015	3.89	R 6.84	18.45	21.41	12.24	20.65	9.40	R 22.32	R 19.97	7.83	R 14.46	23.79	R 16.85
2016	3.96	R 5.52	16.05	19.22	10.04	18.84	7.38	R 18.08	R 17.70	6.70	R 13.08	26.32	R 16.42
2017	4.50	5.65	18.09	23.93	12.18	20.97	—	21.96	20.06	R 7.50	14.55	26.40	17.57
2018	4.68	R 6.18	21.61	27.88	15.50	22.81	10.19	24.82	22.67	R 8.05	16.54	25.55	R 18.76
2019	4.88	5.94	20.36	20.49	14.45	21.26	9.71	R 22.91	20.91	7.76	15.39	24.89	R 17.79
2020	4.30	5.73	17.05	19.51	10.41	17.88	7.64	R 20.40	R 17.83	R 6.01	R 13.06	25.65	R 16.45
2021	4.19	6.42	R 21.93	34.06	14.39	24.91	11.42	R 24.25	24.24	R 7.02	R 17.41	26.01	R 19.57
2022	7.11	R 8.15	R 34.59	26.96	25.06	32.00	17.01	R 33.09	R 32.74	R 11.17	R 24.38	28.57	R 25.49
2023	8.83	8.64	29.35	23.84	20.28	28.83	15.00	27.76	28.58	10.06	22.26	30.08	24.29
	Expenditures in million dollars												
1970	100.4	108.1	31.9	7.7	1.2	237.6	4.9	43.9	327.3	4.7	540.4	204.3	744.7
1975	311.4	170.9	114.2	18.1	2.7	467.7	18.0	136.0	756.7	6.6	1,245.5	477.3	1,722.7
1980	281.2	414.9	416.2	78.1	12.8	1,014.2	24.8	217.7	1,763.7	10.7	2,470.6	748.8	3,219.4
1985	150.3	510.0	472.0	38.9	9.0	894.2	22.2	206.1	1,642.4	14.0	2,316.7	1,000.4	3,317.1
1990	191.3	470.5	461.3	63.3	9.8	1,027.7	18.4	192.5	1,773.0	5.9	2,440.7	1,088.7	3,529.4
1995	143.3	536.4	455.8	63.5	3.8	1,092.0	2.3	147.4	1,764.9	7.3	2,451.9	1,375.2	3,827.1
2000	127.3	593.1	740.4	82.6	7.0	1,196.8	5.5	168.4	2,200.5	7.3	2,928.2	1,395.3	4,323.5
2005	174.5	996.2	1,337.1	78.9	17.1	1,938.1	13.4	271.4	3,656.0	29.8	4,856.5	1,533.7	6,390.2
2006	171.5	1,004.1	1,576.1	126.2	19.2	2,194.0	13.8	299.4	4,228.8	30.7	5,435.1	1,609.3	7,044.4
2007	213.3	963.9	1,662.9	110.5	21.3	2,410.7	50.3	319.2	4,574.8	37.1	5,789.1	1,801.1	7,590.2
2008	258.1	1,036.3	2,184.3	143.3	29.0	2,598.6	48.1	432.0	5,435.3	50.3	6,780.0	1,892.2	8,672.2
2009	226.5	838.8	R 1,243.3	107.2	14.3	2,050.5	4.7	300.6	R 3,720.7	65.3	R 4,851.3	1,983.5	R 6,834.8
2010	309.8	692.7	1,531.6	418.1	21.7	2,461.1	2.9	R 290.6	R 4,726.0	82.0	R 5,810.5	2,360.2	R 8,170.7
2011	356.8	611.7	R 1,982.1	511.6	33.3	2,972.5	4.7	R 355.9	R 5,860.1	95.3	R 6,923.8	2,430.5	R 9,354.4
2012	268.4	534.6	R 2,007.9	408.8	32.2	2,974.9	25.5	R 339.8	R 5,789.0	89.2	R 6,681.3	2,482.0	R 9,163.3
2013	223.2	R 583.5	R 2,026.2	493.8	26.4	2,864.6	19.0	R 332.0	R 5,761.9	112.1	R 6,680.7	2,483.3	R 9,164.0
2014	182.6	637.0	R 1,889.3	477.6	23.4	2,855.7	7.7	R 321.8	R 5,575.4	R 110.6	R 6,505.6	2,499.5	R 9,005.1
2015	159.6	R 542.5	R 1,238.2	298.0	15.2	2,012.6	5.8	R 303.7	R 3,873.5	R 36.7	R 4,612.3	2,618.7	R 7,231.0
2016	121.4	R 466.9	R 1,212.9	252.7	12.8	1,874.9	2.5	R 275.6	R 3,631.5	R 29.0	R 4,248.8	2,877.2	R 7,126.0
2017	118.3	R 502.1	R 1,362.2	308.6	15.8	2,024.5	—	237.3	R 3,948.3	R 31.1	R 4,599.7	2,852.9	R 7,452.6
2018	132.8	R 589.6	R 2,054.7	370.6	R 17.2	2,304.0	0.2	305.3	R 5,052.0	R 39.6	R 5,813.9	2,930.4	R 8,744.3
2019	137.4	532.3	R 1,711.8	299.4	17.0	2,132.9	1.0	R 309.3	R 4,471.4	R 37.4	R 5,178.5	2,821.1	R 7,999.6
2020	115.1	R 484.5	R 1,197.7	282.5	9.4	1,521.0	0.2	R 257.7	R 3,268.4	R 16.2	R 3,884.2	2,803.2	R 6,687.4
2021	129.9	R 578.2	R 1,865.5	492.1	13.9	2,392.3	0.5	R 313.7	R 5,078.0	R 19.7	R 5,805.8	2,904.3	R 8,710.1
2022	79.4	R 747.5	R 2,975.2	405.5	R 24.6	2,959.4	0.8	R 381.8	R 6,747.3	R 35.7	R 7,609.8	3,210.2	R 10,820.1
2023	55.5	775.8	2,474.8	339.8	28.2	2,851.1	0.6	369.1	6,063.5	28.7	6,923.4	3,287.6	10,211.0

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. · Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2023, West Virginia

Year	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
	Prices in dollars per million Btu									
1970	0.66	0.87	1.37	2.45	1.64	1.74	0.73	0.91	6.41	1.72
1975	1.22	1.40	2.69	4.97	3.17	3.27	1.45	1.56	10.47	3.47
1980	1.59	3.48	6.65	8.94	8.48	7.36	3.70	4.12	12.64	6.35
1985	1.66	5.99	7.42	9.61	7.77	7.85	4.19	6.08	17.38	9.71
1990	1.43	6.03	7.57	12.50	7.77	8.74	3.53	6.28	17.28	10.36
1995	1.10	6.64	6.23	12.65	5.56	7.67	2.87	6.60	19.05	11.67
2000	1.30	6.98	9.57	16.31	9.71	12.01	4.37	7.72	18.36	12.33
2005	2.80	12.18	15.63	21.67	14.84	17.97	6.83	12.54	18.19	15.26
2006	3.09	14.06	17.35	24.72	18.63	21.28	7.87	14.76	18.62	16.65
2007	2.46	13.57	19.07	26.77	21.00	23.34	8.70	14.48	19.73	17.18
2008	—	13.52	24.81	30.37	23.27	28.03	10.72	15.27	20.70	18.02
2009	—	13.63	17.46	25.93	21.85	23.25	8.05	13.82	23.16	18.45
2010	—	10.58	21.00	28.90	24.28	26.15	9.50	12.33	25.77	19.10
2011	—	10.06	27.36	33.25	27.64	31.25	11.42	12.82	27.52	20.26
2012	—	9.97	27.27	31.51	29.69	30.23	12.71	12.68	28.87	21.22
2013	—	9.27	28.29	31.40	29.52	30.51	12.45	12.67	27.91	20.06
2014	—	9.35	27.34	35.58	29.88	R 32.68	12.14	12.20	27.37	19.58
2015	—	9.53	17.90	30.96	16.97	R 26.03	8.37	11.65	29.55	20.98
2016	—	8.43	15.49	30.81	13.53	R 23.97	7.15	10.19	33.54	22.84
2017	—	8.70	17.64	33.82	16.92	R 27.44	8.00	10.60	34.09	23.29
2018	—	9.01	19.24	34.85	24.44	29.01	8.85	11.19	32.78	22.46
2019	—	9.12	18.78	31.23	22.82	R 26.69	8.51	11.43	32.97	22.76
2020	—	9.27	16.38	28.52	14.82	24.74	7.04	R 11.68	34.60	R 24.01
2021	—	9.62	19.57	34.24	23.41	29.30	8.45	R 12.27	35.62	R 24.88
2022	—	11.11	29.58	36.74	37.48	34.47	13.07	R 14.34	38.77	R 27.23
2023	—	14.41	28.06	35.56	33.35	33.01	11.95	16.90	41.18	30.09
	Expenditures in million dollars									
1970	1.7	51.7	2.0	2.4	2.5	6.9	1.2	61.5	75.6	137.1
1975	2.1	74.5	9.1	6.0	3.1	18.2	2.6	97.4	177.9	275.3
1980	1.3	173.6	45.3	13.0	19.6	77.9	8.2	261.0	284.9	545.9
1985	0.7	234.7	22.3	7.9	17.2	47.5	11.0	293.9	398.1	692.0
1990	1.3	210.5	30.1	19.1	9.3	58.5	4.5	274.7	446.8	721.5
1995	0.2	249.3	18.0	19.3	9.0	46.4	5.2	301.1	595.8	896.9
2000	0.8	235.7	29.2	45.1	18.7	93.0	5.9	335.5	610.1	945.5
2005	0.4	387.3	34.7	56.3	21.0	112.1	24.9	524.7	706.5	1,231.2
2006	0.2	410.6	38.3	82.9	19.9	141.0	25.4	577.2	699.6	1,276.8
2007	0.4	387.0	36.4	76.4	14.7	127.5	31.0	546.0	790.9	1,336.9
2008	—	399.3	48.8	98.7	6.2	153.8	42.8	595.8	830.7	1,426.5
2009	—	386.0	23.6	80.9	8.4	112.9	56.4	555.3	915.8	1,471.1
2010	—	307.8	33.5	93.7	9.3	136.4	71.3	515.5	1,094.2	1,609.7
2011	—	273.5	38.0	101.4	5.2	144.6	83.2	501.3	1,103.0	1,604.3
2012	—	242.7	29.8	81.3	2.7	113.8	77.4	433.9	1,102.7	1,536.6
2013	—	264.6	R 42.9	123.1	3.0	R 168.9	98.9	R 532.4	1,103.1	R 1,635.5
2014	—	288.5	R 37.7	97.4	6.0	R 141.2	97.6	R 527.3	1,119.7	R 1,647.0
2015	—	260.0	R 30.0	93.9	2.5	126.4	31.1	417.5	1,153.3	R 1,570.9
2016	—	214.9	R 24.1	69.1	2.8	R 96.0	23.9	R 334.8	1,301.9	R 1,636.7
2017	—	211.1	R 20.4	66.3	1.9	R 88.6	25.7	R 325.4	1,229.7	R 1,555.1
2018	—	258.4	R 27.4	86.1	3.0	R 116.4	R 33.7	R 408.5	1,306.1	R 1,714.6
2019	—	236.1	29.9	90.3	3.2	R 123.5	R 31.9	R 391.5	1,254.6	R 1,646.0
2020	—	231.0	R 24.0	103.0	2.1	R 129.1	R 12.3	R 372.4	1,284.0	R 1,656.4
2021	—	249.1	27.2	99.4	3.3	R 129.9	R 15.3	R 394.3	1,343.2	R 1,737.5
2022	—	302.6	42.8	108.0	4.9	155.7	R 29.7	R 488.0	1,473.4	R 1,961.4
2023	—	334.8	38.1	92.5	7.5	138.1	23.1	496.0	1,437.9	1,933.9

[a] Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2023, West Virginia

Year	Primary energy										Electricity [j]	Total energy [g,h,i]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f,g]	Total [g,h,i]		
	Prices in dollars per million Btu											
1970	0.35	0.69	1.08	1.43	0.77	2.86	0.86	1.56	0.73	0.70	5.81	1.88
1975	1.33	1.18	2.37	2.67	2.46	4.61	1.82	2.76	1.45	1.29	10.00	3.34
1980	1.44	3.24	6.24	5.54	6.85	9.96	4.02	6.98	3.70	3.40	12.59	6.21
1985	1.42	5.64	6.25	8.74	7.77	9.19	4.01	7.21	4.19	5.77	16.64	9.74
1990	1.28	5.44	5.87	10.15	7.77	9.96	2.68	7.21	3.53	5.29	15.86	8.98
1995	1.35	5.73	4.43	9.12	5.56	10.04	—	5.32	2.87	5.48	17.35	10.10
2000	1.30	6.16	7.18	12.39	9.71	11.85	—	8.67	4.37	5.71	16.13	9.79
2005	2.66	11.45	13.71	17.17	14.84	18.48	—	14.88	6.83	11.10	16.21	13.38
2006	2.72	12.85	15.68	19.04	18.63	20.82	—	17.55	7.87	12.89	16.39	14.51
2007	2.68	12.44	17.05	21.23	21.00	23.19	—	19.25	8.70	12.30	17.14	14.64
2008	—	12.61	24.12	25.51	23.27	27.41	—	24.97	10.72	13.33	17.81	15.44
2009	—	13.16	14.17	19.59	21.85	20.10	—	16.33	8.05	13.26	19.83	16.37
2010	—	9.54	18.13	22.98	24.28	23.74	—	20.33	9.50	10.36	22.46	16.10
2011	—	8.90	24.54	26.75	27.64	30.13	—	25.31	11.42	10.79	23.86	16.88
2012	—	8.65	25.39	20.66	29.69	30.85	—	24.42	12.71	10.49	24.68	17.34
2013	—	8.00	24.45	20.72	29.52	30.13	18.15	23.45	12.45	9.92	23.94	16.44
2014	—	8.17	22.99	22.55	29.88	29.02	—	23.16	12.14	9.93	23.42	R 16.24
2015	—	8.14	13.87	13.02	16.97	20.65	—	16.22	8.37	9.48	25.24	R 16.77
2016	—	7.05	11.19	12.13	13.53	18.84	—	R 14.24	7.15	8.23	27.41	R 17.19
2017	—	7.06	14.05	16.12	16.92	20.97	—	R 17.11	8.00	8.67	28.07	R 17.71
2018	—	7.43	17.25	17.58	24.44	22.81	—	19.35	8.85	R 9.32	27.09	R 17.23
2019	—	7.39	15.81	13.85	22.82	21.26	—	17.02	8.51	9.23	26.86	R 17.08
2020	—	7.49	10.62	13.05	14.82	17.88	—	13.82	7.04	R 8.57	27.56	R 17.16
2021	—	7.79	16.17	20.34	23.41	24.91	—	R 20.26	8.45	R 9.92	27.83	R 17.93
2022	—	R 8.93	28.93	21.58	37.48	32.00	—	28.51	13.07	R 12.31	30.54	20.32
2023	—	11.54	22.73	17.29	33.35	28.83	—	23.97	11.95	13.74	32.34	22.24
	Expenditures in million dollars											
1970	0.7	15.3	0.6	0.3	0.1	0.8	(s)	1.9	(s)	17.9	44.4	62.3
1975	5.3	30.2	2.9	0.7	0.1	1.4	0.1	5.3	(s)	40.9	97.5	138.4
1980	4.3	73.4	9.5	1.8	1.4	5.7	0.1	18.7	0.2	96.6	157.1	253.7
1985	2.2	103.7	24.5	1.7	5.7	14.8	0.1	46.8	0.3	153.0	253.4	406.4
1990	4.6	124.8	18.0	3.6	2.0	17.3	1.1	41.9	0.5	171.8	275.1	446.9
1995	1.9	157.4	9.2	3.2	1.2	1.0	—	14.6	0.7	174.6	351.8	526.4
2000	6.4	172.2	15.1	7.8	4.0	1.2	—	28.1	1.0	207.7	378.3	586.0
2005	4.9	306.5	18.4	7.9	5.3	2.7	—	34.3	4.0	349.6	412.1	761.7
2006	1.5	337.6	15.0	13.4	4.3	3.1	—	35.8	4.3	379.1	412.6	791.8
2007	3.9	302.6	15.9	13.0	3.0	3.5	—	35.5	5.0	347.0	454.2	801.2
2008	—	342.5	19.1	20.5	1.7	4.0	—	45.3	6.5	394.3	469.0	863.3
2009	—	338.4	22.1	15.3	1.2	2.7	—	41.2	8.0	387.6	520.7	908.3
2010	—	255.8	23.3	19.0	1.1	3.2	—	46.6	9.3	311.7	610.0	921.7
2011	—	232.5	58.9	21.1	0.5	4.2	—	84.8	10.7	328.0	632.5	960.5
2012	—	211.6	55.4	16.4	0.1	4.0	—	75.9	10.5	298.0	653.7	951.7
2013	—	208.8	R 54.3	24.2	0.5	4.0	(s)	R 83.0	11.9	R 303.6	636.5	R 940.1
2014	—	215.0	R 57.9	15.6	0.5	3.7	—	R 77.6	R 11.6	R 304.2	629.5	R 933.6
2015	—	206.1	R 36.9	7.8	0.4	38.0	—	R 83.2	R 4.2	R 293.4	671.7	R 965.1
2016	—	175.9	R 26.8	8.0	0.2	35.8	—	70.8	R 3.7	R 250.4	731.8	R 982.2
2017	—	171.5	R 29.4	11.7	0.2	38.7	—	R 80.0	R 4.1	R 255.6	722.9	R 978.6
2018	—	203.2	R 42.7	14.1	0.4	42.9	—	R 100.1	R 4.4	R 307.8	718.6	R 1,026.4
2019	—	189.3	R 41.2	21.8	0.5	40.2	—	R 103.7	R 4.0	R 296.9	693.4	R 990.4
2020	—	175.4	R 23.6	10.4	0.3	33.8	—	68.1	R 2.4	R 245.9	654.0	R 900.0
2021	—	192.2	35.5	20.2	0.4	47.6	—	103.7	R 2.9	R 298.9	679.6	R 978.4
2022	—	R 231.6	R 65.4	24.7	0.6	62.9	—	153.5	R 4.5	R 389.6	758.1	R 1,147.8
2023	—	272.2	48.2	18.1	0.8	55.6	—	122.8	4.2	399.1	791.5	1,190.6

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[g] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[j] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: Expenditure totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2023, West Virginia

Year	Primary energy												Electricity [i]	Total energy [f,g,h]
	Coal			Natural gas [a]	Petroleum						Biomass	Total [f,g,h]		
	Coking coal	Steam coal	Total		Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e,f]			
	Prices in dollars per million Btu													
1970	0.40	0.35	0.38	0.45	0.71	1.50	2.86	0.48	1.37	1.11	1.49	0.48	2.63	0.64
1975	1.51	1.33	1.43	0.98	2.27	2.90	4.61	1.92	3.40	2.97	1.49	1.60	6.56	2.01
1980	1.86	1.44	1.70	2.91	6.15	6.04	9.96	3.33	6.85	6.10	1.48	2.93	8.58	3.56
1985	1.93	1.42	1.63	4.39	6.72	9.81	9.19	4.01	7.92	7.22	1.48	3.60	10.77	4.73
1990	1.80	1.28	1.50	2.75	5.89	11.31	9.96	2.68	6.32	6.15	1.64	2.86	10.44	3.88
1995	1.57	1.35	1.46	2.45	4.66	8.53	10.04	2.68	5.50	5.52	1.64	2.65	11.82	4.09
2000	1.66	1.30	1.48	3.94	7.90	12.79	11.85	4.43	5.73	7.16	1.22	3.52	11.03	4.87
2005	3.02	2.66	2.85	9.84	14.13	18.26	18.48	7.18	6.42	10.20	1.66	7.16	11.28	7.98
2006	3.35	2.72	3.04	8.02	16.47	20.57	20.82	8.34	6.89	12.02	1.72	7.92	10.87	8.59
2007	3.54	2.68	3.18	7.92	17.80	22.97	23.19	9.60	7.62	12.87	1.73	8.08	11.59	8.85
2008	4.42	3.42	4.06	10.19	24.53	28.04	27.41	13.88	10.29	17.60	1.73	11.14	12.32	11.40
2009	5.21	4.18	4.79	5.13	16.62	21.84	20.10	9.51	16.66	16.72	1.73	9.43	15.37	10.84
2010	5.50	3.77	4.86	5.02	18.21	29.56	23.74	12.36	R 20.04	R 20.97	1.73	R 10.70	17.17	R 12.07
2011	6.62	3.89	5.66	4.51	24.35	37.71	30.13	16.75	R 22.38	R 26.58	2.41	R 13.29	18.11	R 14.33
2012	6.30	4.33	5.32	3.33	25.38	30.00	30.85	18.08	R 23.49	R 25.79	2.41	R 13.22	18.55	R 14.48
2013	5.50	4.18	4.79	3.99	24.85	33.12	30.13	18.15	R 24.62	R 26.41	2.41	R 13.56	18.17	R 14.68
2014	4.49	3.69	4.08	4.58	24.17	34.37	29.02	17.01	R 25.31	R 26.51	3.02	R 13.35	17.20	R 14.35
2015	3.91	3.87	3.89	2.84	15.41	19.09	20.65	9.40	R 18.62	R 17.33	3.02	R 8.77	17.85	R 11.38
2016	3.51	4.48	3.96	2.21	12.91	17.14	18.84	7.38	R 14.06	R 14.74	3.02	R 7.20	19.25	R 10.84
2017	3.86	5.53	4.50	2.96	14.66	22.61	20.97	—	17.33	17.71	3.01	8.67	19.47	11.98
2018	4.17	5.59	4.68	3.24	17.71	27.03	22.81	10.19	19.95	20.67	2.37	10.24	18.75	12.83
2019	4.75	5.12	4.88	2.80	16.38	18.47	21.26	9.71	R 18.89	R 17.68	2.48	9.28	17.66	11.85
2020	4.07	4.75	4.30	2.16	11.64	16.79	17.88	7.64	R 16.62	R 14.99	2.43	R 7.32	17.86	R 10.79
2021	3.81	5.20	4.19	3.46	16.06	35.35	24.91	11.42	R 19.59	R 22.39	2.26	10.51	17.79	R 12.75
2022	6.26	7.64	7.11	R 5.54	27.57	24.90	32.00	17.01	R 26.71	R 26.75	R 2.46	R 15.06	19.75	R 16.73
2023	—	8.83	8.83	3.92	23.97	21.62	28.83	15.00	22.90	23.19	2.50	12.93	21.21	15.87
	Expenditures in million dollars													
1970	55.3	42.6	97.9	41.2	4.5	5.0	1.7	4.8	34.8	50.9	3.4	193.2	84.3	277.5
1975	178.3	125.7	304.0	66.1	19.1	11.2	1.9	17.9	120.9	171.0	3.9	545.1	201.9	747.0
1980	190.2	85.6	275.7	167.9	125.3	62.9	4.3	24.7	171.9	389.0	2.3	835.0	306.7	1,141.7
1985	72.4	74.8	147.3	171.6	81.4	28.5	11.1	22.1	156.2	299.3	2.7	620.9	348.9	969.8
1990	93.1	92.4	185.5	135.2	108.2	39.7	13.0	17.3	147.5	325.8	1.0	647.4	366.8	1,014.2
1995	75.3	65.9	141.2	129.5	87.3	40.5	10.1	2.3	103.8	244.0	1.3	516.1	427.6	943.7
2000	67.8	52.2	120.0	184.1	133.3	29.5	12.3	5.5	107.8	288.5	0.5	593.0	406.9	999.9
2005	93.9	75.3	169.2	302.2	340.4	13.6	37.7	13.4	189.7	594.7	1.0	1,067.1	414.9	1,482.0
2006	95.7	74.1	169.8	255.9	496.6	28.5	45.8	13.8	214.0	798.7	1.0	1,225.4	496.8	1,722.2
2007	136.4	72.6	209.0	274.2	544.8	20.0	41.6	50.3	233.8	890.4	1.1	1,374.7	555.8	1,930.4
2008	178.6	79.4	258.1	294.5	854.1	21.5	39.6	48.1	352.4	1,315.7	1.0	1,869.3	592.3	2,461.6
2009	146.1	80.5	226.5	114.3	465.3	9.8	28.5	4.7	225.1	733.3	1.0	1,075.2	546.6	1,621.8
2010	222.0	87.8	309.8	129.2	523.3	304.8	23.3	2.9	R 216.8	R 1,071.1	1.4	R 1,511.5	655.6	R 2,167.1
2011	269.9	86.9	356.8	105.6	683.9	388.5	29.2	4.7	R 280.5	R 1,386.7	1.3	R 1,850.5	694.6	R 2,545.1
2012	160.3	108.1	268.4	80.3	682.6	310.6	29.8	25.5	R 270.0	R 1,318.5	1.3	R 1,668.5	725.2	R 2,393.8
2013	117.5	105.7	223.2	109.9	736.0	346.1	30.2	19.0	R 263.7	R 1,394.9	1.3	R 1,729.4	743.4	R 2,472.7
2014	97.5	85.0	182.6	133.4	714.9	364.1	23.2	7.7	R 251.1	R 1,360.9	1.4	R 1,678.3	750.3	R 2,428.6
2015	75.3	84.2	159.6	75.8	271.6	195.8	29.5	5.8	R 229.9	R 732.6	1.4	R 969.4	793.7	R 1,763.1
2016	57.2	64.2	121.4	75.5	131.5	175.2	27.1	2.5	R 194.1	R 530.5	1.4	R 728.9	843.5	R 1,572.4
2017	62.4	55.9	118.3	119.3	243.6	229.6	30.4	—	166.9	670.5	1.2	909.3	900.3	1,809.6
2018	75.4	57.3	132.8	127.8	347.8	269.0	32.7	0.2	218.9	868.7	1.4	1,130.7	905.7	2,036.4
2019	89.6	47.8	137.4	106.8	340.9	186.0	30.6	1.0	R 232.6	R 791.1	1.5	R 1,036.8	873.1	R 1,909.9
2020	72.9	42.2	115.1	77.9	142.2	168.6	25.5	0.2	R 192.7	R 529.1	1.5	R 723.6	865.2	R 1,588.8
2021	86.6	43.3	129.9	136.7	269.9	371.6	33.0	0.5	R 230.2	R 905.3	1.5	R 1,173.5	881.5	R 2,055.0
2022	26.8	52.6	79.4	R 213.2	468.3	271.9	43.3	0.8	R 275.4	R 1,059.7	1.4	R 1,353.8	978.7	R 2,332.4
2023	—	55.5	55.5	168.3	397.5	228.6	38.4	0.6	280.3	945.3	1.4	1,170.5	1,058.2	2,228.7

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[i] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET6. Transportation sector energy price and expenditure estimates, selected years, 1970-2023, West Virginia

Year	Primary energy											Electricity [g]	Total energy [f]
			Petroleum										
	Coal	Natural gas[a]	Aviation gasoline	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Lubricants	Motor gasoline [e]	Residual fuel oil	Total	Total [f]		
	Prices in dollars per million Btu												
1970	0.35	—	2.17	1.72	1.43	0.73	5.08	2.86	0.85	2.68	2.67	—	2.67
1975	1.33	—	3.45	3.97	2.67	2.03	7.48	4.61	—	4.50	4.50	—	4.50
1980	—	—	9.02	8.36	5.54	6.46	14.36	9.96	—	9.61	9.61	—	9.61
1985	—	—	9.99	8.76	9.91	6.87	18.18	9.19	4.29	9.14	9.14	—	9.14
1990	—	—	9.32	8.95	12.33	6.41	20.61	9.96	—	9.79	9.79	—	9.79
1995	—	1.96	8.36	8.65	12.48	3.88	21.75	10.04	—	9.75	9.75	—	9.75
2000	—	5.22	10.87	11.70	16.62	6.50	23.20	11.85	—	11.88	11.87	—	11.87
2005	—	8.10	18.56	17.67	21.26	12.64	35.22	18.48	—	18.30	18.30	17.83	18.30
2006	—	11.46	22.31	19.72	22.78	14.64	43.88	20.82	—	20.60	20.60	17.18	20.59
2007	—	10.61	23.70	21.35	24.66	15.96	47.16	23.19	—	22.74	22.74	18.81	22.74
2008	—	13.66	27.23	28.33	29.32	22.53	55.12	27.41	—	27.90	27.90	18.52	27.90
2009	—	10.35	20.32	18.30	22.71	12.74	56.07	20.10	—	19.82	19.82	22.17	19.82
2010	—	5.56	25.19	22.03	26.77	16.39	58.80	23.74	—	23.42	23.42	24.42	23.42
2011	—	4.70	31.64	28.34	31.14	23.39	69.54	30.13	—	29.80	29.80	25.22	29.80
2012	—	14.03	33.04	29.28	24.94	23.19	72.11	30.85	—	30.56	30.56	25.38	30.56
2013	—	R 14.77	32.71	28.95	25.14	22.30	69.42	30.13	—	29.96	29.96	25.44	29.96
2014	—	R 15.18	33.16	28.13	25.56	20.96	69.44	29.02	—	28.97	28.97	—	28.97
2015	—	R 14.90	24.86	19.93	15.65	12.24	67.28	20.65	—	20.69	20.69	—	20.69
2016	—	R 14.24	21.62	16.78	14.66	10.04	65.78	18.84	—	18.32	18.32	—	18.32
2017	—	R 15.35	24.13	19.28	18.79	12.18	67.25	20.97	—	20.58	20.58	—	20.58
2018	—	R 15.62	27.04	22.87	20.29	15.50	72.37	22.81	—	23.11	23.11	—	23.11
2019	—	R 16.41	25.57	22.01	16.40	14.45	74.92	21.26	—	21.81	21.81	—	21.81
2020	—	R 16.43	22.34	18.54	15.02	10.41	75.34	17.88	—	18.43	18.43	—	18.43
2021	—	R 16.46	28.86	23.70	23.51	14.39	81.25	24.91	—	24.70	24.70	—	24.70
2022	—	R 16.46	36.02	36.73	24.17	25.06	97.37	32.00	—	R 34.35	R 34.35	—	R 34.35
2023	—	16.46	32.62	30.98	19.01	20.28	105.48	28.83	—	29.96	29.96	—	29.96
	Expenditures in million dollars												
1970	0.1	—	0.9	24.8	0.1	1.2	5.7	235.1	(s)	267.7	267.9	—	267.9
1975	(s)	—	1.0	83.0	0.1	2.7	10.9	464.3	—	562.1	562.1	—	562.1
1980	—	—	3.0	236.1	0.3	12.8	21.8	1,004.2	—	1,278.1	1,278.1	—	1,278.1
1985	—	—	1.9	343.8	0.8	9.0	25.1	868.3	(s)	1,248.9	1,248.9	—	1,248.9
1990	—	—	1.7	305.1	0.9	9.8	32.0	997.4	—	1,346.8	1,346.8	—	1,346.8
1995	—	0.1	1.1	341.3	0.6	3.8	32.2	1,080.8	—	1,459.9	1,460.0	—	1,460.0
2000	—	1.1	1.1	562.8	0.1	7.0	36.7	1,183.3	—	1,791.0	1,792.0	—	1,792.0
2005	—	0.1	8.4	943.7	1.1	17.1	47.0	1,897.7	—	2,914.9	2,915.0	0.3	2,915.3
2006	—	0.1	4.1	1,026.2	1.5	19.2	57.1	2,145.1	—	3,253.3	3,253.4	0.3	3,253.7
2007	—	(s)	4.3	1,065.8	1.1	21.3	63.3	2,365.5	—	3,521.4	3,521.4	0.3	3,521.7
2008	—	(s)	3.0	1,262.4	2.6	29.0	68.7	2,554.9	—	3,920.5	3,920.6	0.3	3,920.8
2009	—	(s)	3.1	R 732.4	1.3	14.3	62.9	2,019.3	—	R 2,833.3	R 2,833.3	0.3	R 2,833.6
2010	—	(s)	3.1	951.5	0.6	21.7	60.3	2,434.6	—	3,471.8	3,471.8	0.4	3,472.2
2011	—	(s)	3.7	R 1,201.3	0.7	33.3	66.0	2,939.1	—	R 4,244.1	R 4,244.1	0.4	R 4,244.4
2012	—	(s)	3.7	R 1,240.0	0.4	32.2	63.3	2,941.1	—	R 4,280.8	R 4,280.8	0.4	R 4,281.2
2013	—	0.1	3.1	R 1,193.1	0.5	26.4	61.8	2,830.4	—	R 4,115.2	R 4,115.3	0.3	R 4,115.6
2014	—	0.1	2.2	R 1,078.8	0.5	23.4	61.9	2,828.8	—	R 3,995.7	R 3,995.9	—	R 3,995.9
2015	—	R 0.6	1.5	R 899.7	0.4	15.2	69.5	1,945.1	—	R 2,931.3	R 2,931.9	—	R 2,931.9
2016	—	R 0.5	1.0	R 1,030.5	0.4	12.8	77.5	1,811.9	—	R 2,934.2	R 2,934.7	—	R 2,934.7
2017	—	R 0.2	1.4	R 1,068.8	1.0	15.8	67.0	1,955.3	—	R 3,109.2	R 3,109.4	—	R 3,109.4
2018	—	R 0.2	2.0	R 1,636.8	1.4	R 17.2	81.1	2,228.4	—	R 3,966.8	R 3,967.0	—	R 3,967.0
2019	—	0.1	1.9	1,299.8	1.3	17.0	71.1	2,062.1	—	3,453.2	3,453.3	—	3,453.3
2020	—	0.1	1.3	R 1,007.9	0.5	9.4	R 61.3	1,461.7	—	R 2,542.0	R 2,542.2	—	R 2,542.2
2021	—	R 0.1	1.9	R 1,532.8	0.9	13.9	R 77.9	2,311.7	—	R 3,939.2	R 3,939.2	—	R 3,939.2
2022	—	R 0.1	2.5	R 2,398.7	1.0	R 24.6	R 98.4	2,853.2	—	R 5,378.4	R 5,378.4	—	R 5,378.4
2023	—	0.5	2.2	1,990.9	0.6	28.2	78.3	2,757.1	—	4,857.3	4,857.9	—	4,857.9

[a] Transportation use of natural gas as vehicle fuel only.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET7. Electric power sector price and expenditure estimates, selected years, 1970-2023, West Virginia

Year	Coal	Natural gas [a]	Petroleum: Distillate fuel oil	Petroleum: Petroleum coke	Petroleum: Residual fuel oil	Petroleum: Total	Nuclear fuel	Biomass: Wood and waste [b]	Electricity imports [c]	Total energy [d]
	Prices in dollars per million Btu									
1970	0.25	0.32	0.93	—	0.94	0.94	—	0.65	—	0.26
1975	0.87	0.60	2.44	—	1.83	1.84	—	—	—	0.88
1980	1.41	2.99	6.30	—	—	6.30	—	—	—	1.43
1985	1.60	4.78	6.00	—	—	6.00	—	—	—	1.62
1990	1.47	5.13	5.72	—	—	5.72	—	—	—	1.48
1995	1.27	3.58	4.39	—	—	4.39	—	—	—	1.28
2000	1.20	4.98	7.21	—	—	7.21	—	0.93	—	1.22
2005	1.52	9.70	12.43	—	—	12.43	—	1.27	—	1.56
2006	1.66	7.67	12.06	—	—	12.06	—	—	—	1.70
2007	1.81	7.74	15.64	—	—	15.64	—	—	—	1.87
2008	2.35	9.66	21.93	—	—	21.93	—	—	—	2.39
2009	2.64	4.55	14.24	—	—	14.24	—	—	—	2.67
2010	2.48	4.91	17.09	—	—	17.09	—	—	—	2.52
2011	2.46	4.79	23.10	—	—	23.10	—	2.44	—	2.52
2012	2.54	3.20	23.30	—	—	23.30	—	2.21	—	2.59
2013	2.48	3.81	23.43	—	—	23.43	—	2.26	—	2.53
2014	2.40	5.93	22.02	—	—	22.02	—	2.73	—	2.47
2015	2.31	2.78	13.89	—	—	13.89	—	2.62	—	2.34
2016	2.25	2.45	11.48	—	—	11.48	—	—	—	2.26
2017	2.20	3.00	13.25	—	—	13.25	—	—	9.18	2.23
2018	2.09	3.22	16.62	—	—	16.62	—	—	10.74	2.15
2019	2.08	2.19	15.51	—	—	15.51	—	—	—	2.12
2020	2.00	1.59	12.15	—	—	12.15	—	1.80	—	2.01
2021	1.94	4.16	16.41	—	—	16.41	—	2.39	—	2.05
2022	2.27	6.75	25.97	—	—	25.97	—	2.69	—	2.49
2023	2.81	1.93	21.71	—	—	21.71	—	2.93	—	2.81
	Expenditures in million dollars									
1970	87.1	0.2	(s)	—	2.5	2.6	—	(s)	—	89.9
1975	522.5	0.1	0.2	—	8.2	8.3	—	—	—	531.0
1980	972.5	0.2	25.1	—	—	25.1	—	—	—	997.7
1985	1,248.3	0.6	12.9	—	—	12.9	—	—	—	1,261.8
1990	1,096.3	0.7	12.3	—	—	12.3	—	—	—	1,109.2
1995	983.2	2.7	8.6	—	—	8.6	—	—	—	994.5
2000	1,073.1	2.6	18.8	—	—	18.8	—	0.1	—	1,094.6
2005	1,360.8	23.1	25.2	—	—	25.2	—	(s)	—	1,409.0
2006	1,500.7	29.4	16.6	—	—	16.6	—	—	—	1,546.7
2007	1,662.1	31.0	29.3	—	—	29.3	—	—	—	1,722.4
2008	2,094.5	19.0	30.0	—	—	30.0	—	—	—	2,143.6
2009	1,836.1	5.3	25.0	—	—	25.0	—	—	—	1,866.5
2010	1,946.5	7.6	26.8	—	—	26.8	—	—	—	1,980.9
2011	1,870.2	12.8	43.5	—	—	43.5	—	0.3	—	1,926.9
2012	1,793.8	7.9	33.6	—	—	33.6	—	0.3	—	1,835.5
2013	1,798.7	11.3	36.4	—	—	36.4	—	0.1	—	1,846.4
2014	1,848.2	41.4	36.0	—	—	36.0	—	0.1	—	1,925.7
2015	1,592.6	39.3	19.7	—	—	19.7	—	0.2	—	1,651.8
2016	1,619.7	26.7	14.2	—	—	14.2	—	—	—	1,660.6
2017	1,502.8	33.7	15.8	—	—	15.8	—	—	(s)	1,552.3
2018	1,323.8	37.1	27.7	—	—	27.7	—	—	0.3	1,389.0
2019	1,237.4	38.5	20.5	—	—	20.5	—	—	—	1,296.4
2020	1,025.3	35.7	18.0	—	—	18.0	—	0.1	—	1,079.0
2021	1,168.5	87.2	28.5	—	—	28.5	—	0.1	—	1,284.3
2022	1,193.6	121.2	43.0	—	—	43.0	—	0.1	—	1,357.9
2023	1,308.3	64.6	37.6	—	—	37.6	—	0.1	—	1,410.6

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[c] Electricity imported from Canada and Mexico.
[d] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET1. Primary energy, electricity, and total energy price and expenditure estimates, selected years, 1970-2023, Wisconsin

Year	Primary energy														Electric power sector [i,k,l]	Electricity [m]	Total energy [h,i,j]
	Coal			Natural gas [a]	Petroleum							Nuclear fuel	Biomass				
	Coking coal	Steam coal	Total		Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total		Wood and waste [g,h]	Total [h,i,j,k]			
	Prices in dollars per million Btu																
1970	0.53	0.53	0.53	0.79	1.07	1.88	0.74	2.65	0.57	1.43	1.89	0.15	1.09	1.16	0.39	6.02	1.76
1975	1.80	1.03	1.05	1.30	2.47	3.69	2.08	4.54	1.79	3.22	3.66	0.32	1.31	2.12	0.71	8.88	3.28
1980	2.27	1.43	1.44	3.43	6.59	6.67	6.38	9.43	3.48	7.02	8.15	0.47	1.64	4.36	1.25	13.34	6.72
1985	2.08	1.76	1.76	5.37	7.62	8.86	6.19	9.33	4.59	9.50	8.70	0.58	1.65	4.95	1.42	16.87	8.41
1990	—	1.41	1.41	4.55	7.57	10.06	5.99	9.38	2.41	6.95	8.55	0.48	1.34	4.59	1.15	15.77	8.01
1995	—	1.20	1.20	4.30	7.07	8.19	3.97	9.61	2.39	6.78	8.43	0.44	1.34	4.41	1.00	15.75	7.82
2000	—	1.08	1.08	6.27	9.83	11.12	6.65	12.48	3.29	7.37	10.87	0.50	1.47	5.78	1.05	16.77	9.93
2005	—	1.38	1.38	10.37	16.77	16.59	13.37	18.63	6.72	7.99	16.60	0.49	3.14	9.00	1.83	22.00	15.08
2006	—	1.59	1.59	10.19	19.18	18.53	15.03	21.11	7.68	10.27	19.03	0.53	3.18	9.99	1.72	23.89	16.75
2007	—	1.79	1.79	10.17	20.75	20.40	15.98	23.37	8.48	11.46	21.03	0.51	3.54	10.75	1.96	24.92	17.95
2008	—	2.07	2.07	11.22	26.55	24.28	22.77	26.63	12.27	13.52	25.04	0.50	4.32	12.35	2.15	26.47	20.14
2009	—	2.14	2.14	8.69	17.35	20.04	12.61	19.64	7.91	14.14	18.42	0.55	3.55	9.44	1.87	27.57	16.70
2010	—	2.24	2.24	8.40	21.13	19.80	16.27	23.30	11.55	R 16.48	21.72	0.64	3.59	10.41	2.02	28.76	18.46
2011	—	2.61	2.61	7.82	27.48	21.46	22.56	29.64	15.48	R 18.45	R 27.35	0.67	3.93	12.36	2.34	30.01	20.91
2012	—	2.51	2.51	6.42	28.10	17.49	22.97	30.26	16.75	R 21.47	R 28.13	0.73	3.83	12.31	2.11	30.25	R 21.35
2013	—	2.44	2.44	6.70	28.03	17.73	22.06	29.51	16.53	R 21.60	R 27.46	0.77	4.11	R 11.79	2.25	30.82	R 20.28
2014	—	2.44	2.44	8.39	27.15	23.18	20.59	28.22	15.80	R 22.11	R 26.89	0.72	R 4.51	12.74	2.40	30.99	20.66
2015	—	2.38	2.38	5.90	18.55	13.51	11.88	20.25	10.18	R 20.49	R 19.18	0.72	R 3.96	R 9.23	2.17	31.47	16.97
2016	—	2.29	2.29	5.31	15.77	12.07	9.72	18.01	7.25	R 17.70	R 16.83	0.71	R 3.83	R 8.30	2.09	31.30	R 15.77
2017	—	2.30	2.30	5.74	18.12	15.99	12.10	20.22	9.71	17.60	18.99	0.71	R 3.92	9.08	2.17	31.54	16.74
2018	—	2.37	2.37	5.51	21.86	16.58	16.14	22.42	10.95	21.04	21.61	0.68	R 3.96	10.05	2.22	31.02	17.51
2019	—	2.34	2.34	5.15	20.73	14.39	14.44	21.37	11.05	R 21.97	20.48	0.65	R 3.81	9.83	2.08	31.23	R 16.90
2020	—	2.06	2.06	R 4.67	16.83	13.57	9.10	17.53	8.14	R 19.30	16.98	0.62	R 2.96	8.21	1.85	31.72	R 15.51
2021	—	2.14	2.14	6.65	R 22.32	20.44	15.02	24.77	12.33	R 21.31	23.28	0.73	R 3.42	11.34	2.34	32.27	R 19.43
2022	—	2.52	2.52	R 8.32	34.47	22.27	27.17	32.61	19.71	R 29.53	32.02	0.59	R 4.52	R 15.36	R 3.25	35.03	R 24.06
2023	—	2.55	2.55	6.86	28.93	19.05	21.60	28.92	17.68	28.33	28.04	0.59	4.37	13.48	2.66	37.29	22.70
	Expenditures in million dollars																
1970	5.0	196.7	201.7	267.1	161.6	55.0	6.7	633.6	8.8	86.9	952.6	0.3	6.6	1,428.4	-109.2	501.0	1,820.2
1975	12.0	272.7	284.7	474.2	382.3	116.9	26.0	1,230.6	19.3	119.7	1,894.9	36.6	9.2	2,699.6	-245.2	932.2	3,386.6
1980	12.3	459.5	471.7	1,184.8	863.2	148.4	86.1	2,457.8	27.6	232.0	3,815.3	50.3	42.3	5,564.5	-494.9	1,669.5	6,739.1
1985	0.1	635.7	635.8	1,634.5	1,027.3	175.6	57.8	2,281.4	9.3	227.2	3,778.7	67.9	49.2	6,167.0	-611.7	2,601.0	8,156.3
1990	—	556.5	556.5	1,372.2	1,067.2	248.4	47.9	2,414.3	13.0	256.2	4,047.0	57.3	50.2	6,089.6	-542.4	2,621.1	8,168.4
1995	—	528.4	528.4	1,607.2	965.9	267.0	46.0	2,754.4	7.3	307.9	4,348.6	50.8	70.6	6,605.6	-525.8	3,083.8	9,163.5
2000	—	537.0	537.0	2,417.5	1,675.7	457.7	118.4	3,777.4	15.0	445.7	6,489.9	60.5	80.7	9,585.7	-633.4	3,690.6	12,642.9
2005	—	719.9	719.9	4,192.1	2,663.7	695.9	216.7	5,935.8	60.9	492.7	10,065.6	51.0	164.8	15,193.4	-1,192.2	5,224.6	19,225.8
2006	—	733.7	733.7	3,726.7	3,159.4	694.3	234.2	6,624.7	39.9	632.0	11,384.6	67.4	175.4	16,087.7	-1,049.7	5,628.4	20,666.4
2007	—	831.8	831.8	3,997.4	3,370.8	779.1	201.8	7,483.1	41.1	664.2	12,540.1	69.6	169.2	17,608.1	-1,242.1	5,997.4	22,363.5
2008	—	995.0	995.0	4,518.2	4,206.7	875.5	340.6	8,186.0	54.1	715.5	14,378.3	63.7	205.2	20,160.4	-1,343.3	6,262.4	25,079.5
2009	—	910.3	910.3	3,311.5	R 2,335.9	663.1	178.3	6,052.7	11.5	626.4	R 9,867.9	73.5	143.2	R 14,306.5	-1,085.1	6,160.9	R 19,382.3
2010	—	1,026.9	1,026.9	3,061.9	R 2,904.4	640.9	264.2	7,277.1	7.3	R 805.9	R 11,899.9	88.2	187.3	R 16,264.2	-1,249.9	6,669.2	R 21,683.5
2011	—	1,169.2	1,169.2	3,028.0	R 3,748.5	705.9	351.5	8,915.9	11.5	R 891.7	R 14,625.0	81.2	226.2	R 19,129.6	-1,401.7	6,943.9	R 24,671.9
2012	—	937.8	937.8	2,563.0	R 3,938.3	482.8	287.0	9,042.9	10.5	R 863.8	R 14,625.1	108.8	215.9	R 18,450.7	-1,257.7	7,015.7	R 24,208.7
2013	—	1,108.9	1,108.9	3,011.4	R 3,890.1	644.1	277.2	8,787.5	7.0	R 974.6	R 14,580.6	93.5	235.9	R 19,030.3	-1,401.7	7,256.0	R 24,884.7
2014	—	1,018.7	1,018.7	R 3,975.1	R 4,147.8	906.0	257.8	8,846.3	5.0	R 1,041.4	R 15,204.3	71.6	R 246.0	R 20,515.7	-1,352.3	7,335.5	R 26,498.9
2015	—	972.2	972.2	R 2,786.9	R 2,776.1	480.1	153.2	6,405.0	5.2	R 864.7	R 10,684.3	75.2	R 220.1	R 14,738.8	-1,317.4	7,362.7	R 20,784.1
2016	—	819.9	819.9	R 2,633.5	R 2,261.2	391.5	130.2	5,709.2	6.5	R 725.7	R 9,224.4	75.4	R 201.9	R 12,954.9	-1,215.9	7,434.0	R 19,173.0
2017	—	893.4	893.4	R 2,869.3	R 2,577.7	506.3	170.1	6,333.9	10.2	771.3	R 10,369.3	72.1	R 199.0	R 14,403.2	-1,293.0	7,420.6	R 20,530.8
2018	—	859.0	859.0	R 3,087.8	R 3,392.5	613.7	R 239.6	7,284.9	11.9	876.2	R 12,418.9	71.9	R 213.2	R 16,650.8	-1,324.4	7,505.1	R 22,831.5
2019	—	654.3	654.3	R 3,028.3	R 3,227.0	642.1	R 231.4	6,807.8	10.2	R 846.5	R 11,765.0	68.0	R 195.9	R 15,711.5	-1,109.9	7,370.3	R 21,971.9
2020	—	513.2	513.2	R 2,650.3	R 2,483.4	539.4	91.0	4,934.3	8.1	R 732.4	R 8,788.5	63.3	R 123.8	R 12,139.1	-956.3	7,300.5	R 18,483.3
2021	—	612.5	612.5	R 3,705.4	R 3,484.7	844.5	174.3	7,581.6	12.9	R 882.5	R 12,980.5	75.9	R 129.6	R 17,504.0	-1,289.8	7,645.3	R 23,859.4
2022	—	584.7	584.7	R 5,141.7	R 5,414.1	921.4	R 310.0	10,110.1	21.2	R 1,156.3	R 17,933.1	61.9	R 183.8	R 23,905.2	R -1,705.6	8,351.2	R 30,550.8
2023	—	560.1	560.1	4,061.5	4,469.6	699.5	273.9	9,013.7	15.8	915.5	15,388.0	59.6	170.2	20,239.4	-1,383.3	8,711.4	27,567.5

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[l] Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
[m] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET2. Total end-use energy price and expenditure estimates, selected years, 1970-2023, Wisconsin

Year	Primary energy											Electricity [k]	Total energy [h,i,j]
			Petroleum							Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g,h]	Total [h,i,j]		
	Prices in dollars per million Btu												
1970	0.75	0.83	1.08	1.88	0.74	2.65	0.57	1.46	1.92	1.09	1.38	6.02	1.76
1975	1.62	1.32	2.47	3.69	2.08	4.54	1.85	3.23	3.68	1.31	2.64	8.88	3.28
1980	1.56	3.45	6.61	6.67	6.38	9.43	3.43	7.03	8.17	1.64	5.78	13.34	6.72
1985	2.12	5.37	7.64	8.86	6.19	9.33	4.59	9.55	8.71	1.67	6.81	16.87	8.41
1990	1.80	4.57	7.58	10.06	5.99	9.38	2.41	6.95	8.56	1.41	6.50	15.77	8.01
1995	1.67	4.35	7.10	8.19	3.97	9.61	2.39	6.90	8.46	1.39	6.23	15.75	7.82
2000	1.67	6.38	9.87	11.12	6.65	12.48	3.29	7.50	10.90	1.54	8.50	16.77	9.93
2005	2.59	10.66	16.82	16.59	13.37	18.63	6.72	8.61	16.74	3.49	13.50	22.00	15.08
2006	2.84	10.59	19.22	18.53	15.03	21.11	7.68	11.48	19.26	3.52	15.06	23.89	16.75
2007	3.01	10.62	20.80	20.40	15.98	23.37	8.48	13.03	21.31	3.90	16.28	24.92	17.95
2008	3.39	11.46	26.58	24.28	22.77	26.63	12.27	15.49	25.36	4.83	18.66	26.47	20.14
2009	3.68	9.17	17.36	20.04	12.61	19.64	7.91	15.96	18.60	3.88	14.11	27.57	16.70
2010	3.69	8.80	21.15	19.80	16.27	23.30	11.55	R 18.43	21.93	3.89	15.92	28.76	18.46
2011	3.86	8.24	27.49	21.46	22.56	29.64	15.48	R 20.11	27.56	4.33	18.69	30.01	20.91
2012	4.07	7.33	28.13	17.49	22.97	30.26	16.75	R 21.92	R 28.18	4.26	R 19.06	30.25	R 21.35
2013	3.95	7.07	28.04	17.73	22.06	29.51	16.53	R 22.00	27.50	4.56	17.77	30.82	R 20.28
2014	4.03	8.85	27.17	23.18	20.59	28.22	15.80	R 22.68	R 26.96	5.22	R 18.33	30.99	20.66
2015	3.97	6.67	18.56	13.51	11.88	20.25	10.18	R 20.97	R 19.22	R 4.57	R 13.55	31.47	16.97
2016	3.72	6.14	15.78	12.07	9.72	18.01	7.25	R 18.19	R 16.87	R 4.01	R 12.00	31.30	R 15.77
2017	3.78	6.45	18.13	15.99	12.10	20.22	9.71	18.22	19.05	R 4.20	13.23	31.54	16.74
2018	3.93	6.21	21.88	16.58	16.14	22.42	10.95	21.80	21.67	R 4.38	14.43	31.02	17.51
2019	4.02	5.98	20.76	14.39	14.44	21.37	11.05	R 22.73	20.54	R 4.35	13.72	31.23	R 16.90
2020	3.84	5.59	16.85	13.57	9.10	17.53	8.14	19.93	17.02	R 3.27	R 11.63	31.72	R 15.51
2021	3.95	7.79	R 22.43	20.44	15.02	24.77	12.33	R 22.35	23.40	R 4.10	R 16.36	32.27	R 19.43
2022	4.19	R 9.36	R 34.50	22.27	27.17	32.61	19.71	R 30.86	32.12	R 5.73	R 21.53	35.03	R 24.06
2023	4.68	8.29	28.99	19.05	21.60	28.92	17.68	28.77	28.08	5.25	19.23	37.29	22.70
	Expenditures in million dollars												
1970	110.9	254.0	161.2	55.0	6.7	633.6	4.8	86.4	947.7	6.6	1,319.2	501.0	1,820.2
1975	106.4	457.5	375.1	116.9	25.5	1,230.6	13.6	119.6	1,881.3	9.2	2,454.4	932.2	3,386.6
1980	87.0	1,144.2	847.0	148.4	86.1	2,457.8	25.8	231.9	3,797.2	41.2	5,069.6	1,669.5	6,739.1
1985	106.3	1,629.1	1,019.3	175.6	57.8	2,281.4	9.3	227.0	3,770.5	48.5	5,555.3	2,601.0	8,156.3
1990	85.3	1,364.2	1,063.7	248.4	47.9	2,414.3	13.0	256.2	4,043.5	47.9	5,547.2	2,621.1	8,168.4
1995	84.4	1,584.9	961.6	267.0	46.0	2,754.4	7.3	307.4	4,343.7	66.7	6,079.7	3,083.8	9,163.5
2000	74.6	2,322.1	1,665.4	457.7	118.4	3,777.4	15.0	445.0	6,478.9	76.8	8,952.3	3,690.6	12,642.9
2005	121.9	3,678.0	2,643.4	695.9	216.7	5,935.8	60.9	489.3	10,041.9	159.4	14,001.2	5,224.6	19,225.8
2006	115.2	3,403.5	3,138.0	694.3	234.2	6,624.7	39.9	622.5	11,353.7	165.7	15,038.0	5,628.4	20,666.4
2007	124.9	3,588.0	3,342.2	779.1	201.8	7,483.1	41.1	653.8	12,501.1	152.0	16,366.0	5,997.4	22,363.5
2008	146.3	4,138.2	4,186.6	875.5	340.6	8,186.0	54.1	704.6	14,347.4	185.2	18,817.1	6,262.4	25,079.5
2009	136.6	3,113.4	R 2,329.0	663.1	178.3	6,052.7	11.5	618.5	R 9,853.1	118.3	R 13,221.4	6,160.9	R 19,382.3
2010	140.4	2,830.4	2,896.2	640.9	264.2	7,277.1	7.3	R 796.6	R 11,882.3	161.2	R 15,014.3	6,669.2	R 21,683.5
2011	142.2	2,793.7	R 3,737.6	705.9	351.5	8,915.9	11.5	R 884.6	R 14,607.0	185.0	R 17,727.9	6,943.9	R 24,671.9
2012	130.5	2,278.6	R 3,925.5	482.8	287.0	9,042.9	10.5	R 862.3	R 14,610.8	173.1	R 17,193.0	7,015.7	R 24,208.7
2013	127.5	2,737.9	R 3,880.9	644.1	277.2	8,787.5	7.0	R 973.1	R 14,569.9	193.3	R 17,628.6	7,256.0	R 24,884.7
2014	133.0	R 3,651.3	R 4,132.5	906.0	257.8	8,846.3	5.0	R 1,039.1	R 15,186.7	R 192.4	R 19,163.4	7,335.5	R 26,498.9
2015	109.4	R 2,460.5	R 2,770.6	480.1	153.2	6,405.0	5.2	R 863.0	R 10,677.0	R 174.4	R 13,421.4	7,362.7	R 20,784.1
2016	72.0	R 2,295.5	R 2,256.6	391.5	130.2	5,709.2	6.5	R 723.6	R 9,217.6	R 153.9	R 11,739.0	7,434.0	R 19,173.0
2017	76.7	R 2,520.1	R 2,572.3	506.3	170.1	6,333.9	10.2	768.3	R 10,361.0	R 152.3	R 13,110.2	7,420.6	R 20,530.8
2018	79.1	R 2,663.0	R 3,384.4	613.7	R 239.6	7,284.9	11.9	873.4	R 12,407.9	R 176.3	R 15,326.4	7,505.1	R 22,831.5
2019	71.7	R 2,614.1	R 3,218.1	642.1	R 231.4	6,807.8	10.2	R 843.9	R 11,753.5	R 162.3	R 14,601.6	7,370.3	R 21,971.9
2020	49.8	R 2,254.2	R 2,480.7	539.4	91.0	4,934.3	8.1	R 729.9	R 8,783.3	R 95.4	R 11,182.8	7,300.5	R 18,483.3
2021	44.7	R 3,133.7	R 3,442.6	844.5	174.3	7,581.6	12.9	R 878.5	R 12,934.5	R 101.4	R 16,214.2	7,645.3	R 23,859.4
2022	41.8	R 4,093.9	R 5,404.7	921.4	R 310.0	10,110.1	21.2	R 1,147.7	R 17,915.1	R 148.8	R 22,199.6	8,351.2	R 30,550.8
2023	32.5	3,330.6	4,448.5	699.5	273.9	9,013.7	15.8	912.3	15,363.8	129.2	18,856.1	8,711.4	27,567.5

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. · Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2023, Wisconsin

Year	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
	Prices in dollars per million Btu									
1970	1.63	1.22	1.21	2.04	1.47	1.42	0.57	1.33	6.75	2.03
1975	3.10	1.71	2.57	4.15	2.97	2.97	1.12	2.24	10.04	3.46
1980	3.92	3.81	6.60	7.69	8.11	6.83	2.87	4.75	15.04	6.78
1985	4.26	6.41	7.44	8.72	7.93	7.75	3.24	6.73	19.73	9.88
1990	3.37	5.70	7.13	10.03	8.28	8.14	3.56	6.35	19.45	9.62
1995	3.26	5.76	6.15	8.26	4.97	7.22	2.90	6.06	20.42	9.74
2000	3.19	7.48	8.87	10.88	9.18	10.08	4.41	8.07	22.08	11.86
2005	4.55	11.77	15.11	16.10	15.34	15.73	6.91	12.45	28.33	17.12
2006	5.16	12.04	17.46	18.01	19.50	17.81	7.96	13.15	30.80	18.61
2007	5.39	11.86	19.60	19.74	22.12	19.70	8.79	13.31	31.84	18.90
2008	—	12.63	23.56	24.01	23.25	23.87	10.83	14.88	33.74	20.20
2009	—	10.61	16.07	20.08	23.47	19.21	8.13	12.12	34.98	18.89
2010	—	10.24	19.93	19.82	24.94	19.87	9.60	12.02	37.07	20.02
2011	—	9.63	27.10	20.91	28.22	22.10	11.54	11.91	38.17	20.07
2012	—	9.09	27.01	17.88	29.60	19.52	12.85	10.93	38.66	20.45
2013	—	8.42	28.02	17.72	30.25	19.30	12.58	10.38	39.70	18.88
2014	—	10.14	27.08	24.54	32.56	24.98	12.27	R 12.70	40.05	20.25
2015	—	8.16	17.73	14.86	16.81	15.32	8.45	9.37	41.37	18.91
2016	—	7.72	15.35	13.00	13.40	13.36	7.22	8.60	41.24	18.71
2017	—	8.08	17.48	16.75	16.76	16.86	8.08	9.44	42.04	19.16
2018	—	7.67	19.06	17.16	25.82	17.50	8.94	9.25	41.09	R 18.38
2019	—	7.32	17.99	15.38	22.61	15.74	8.60	8.91	41.55	17.63
2020	—	7.17	14.66	14.61	14.68	14.61	7.11	R 8.49	41.97	R 18.52
2021	—	9.29	18.75	21.43	23.19	21.08	R 8.53	R 11.53	42.56	R 20.99
2022	—	10.80	27.39	23.50	40.28	24.06	R 13.20	13.21	45.79	R 22.43
2023	—	10.39	25.36	20.37	35.98	21.10	12.07	12.45	49.46	23.66
	Expenditures in million dollars									
1970	24.8	131.2	82.3	45.9	13.4	141.6	1.2	298.9	226.2	525.1
1975	10.2	209.5	164.8	90.1	8.9	263.8	2.4	485.9	403.6	889.5
1980	1.0	473.2	313.4	92.3	5.7	411.4	11.5	897.1	697.6	1,594.7
1985	0.6	751.6	289.1	106.8	8.8	404.7	13.7	1,170.6	1,097.7	2,268.3
1990	0.1	654.3	223.7	168.8	1.4	393.9	16.5	1,064.8	1,087.2	2,151.9
1995	1.4	791.3	131.0	184.6	1.0	316.6	7.3	1,116.6	1,298.1	2,414.7
2000	1.6	1,020.0	156.3	288.4	2.3	447.0	7.5	1,476.1	1,501.6	2,977.7
2005	2.9	1,565.4	232.0	429.9	2.4	664.3	54.5	2,287.1	2,170.5	4,457.6
2006	0.3	1,467.3	239.6	414.7	3.0	657.3	55.7	2,180.6	2,288.8	4,469.4
2007	0.7	1,576.5	224.5	478.7	1.7	704.9	68.0	2,350.2	2,431.0	4,781.2
2008	—	1,800.8	280.5	660.4	1.2	942.2	93.8	2,836.8	2,529.6	5,366.4
2009	—	1,433.0	115.4	501.2	3.6	620.2	52.3	2,105.5	2,556.7	4,662.2
2010	—	1,278.2	126.4	474.2	3.8	604.4	66.2	1,948.8	2,820.6	4,769.4
2011	—	1,264.7	147.4	500.1	5.9	653.3	77.2	1,995.2	2,884.5	4,879.7
2012	—	1,043.4	111.9	343.0	1.1	456.0	71.9	1,571.2	2,905.4	4,476.7
2013	—	1,236.8	R 129.1	457.7	1.6	R 588.4	91.8	R 1,917.0	2,993.1	R 4,910.1
2014	—	1,582.3	R 144.7	667.8	3.0	R 815.5	90.6	R 2,488.4	2,996.2	R 5,484.5
2015	—	1,083.3	R 79.6	353.9	0.9	R 434.4	78.3	R 1,596.0	2,994.4	R 4,590.4
2016	—	1,012.4	R 63.3	291.3	1.1	R 355.7	R 57.4	R 1,425.5	3,069.4	R 4,494.9
2017	—	1,100.6	R 71.2	373.1	0.8	R 445.1	R 62.7	R 1,608.4	3,046.0	R 4,654.4
2018	—	1,161.9	R 95.6	418.7	1.4	R 515.6	R 84.3	R 1,761.9	3,146.1	R 4,908.0
2019	—	1,164.2	R 88.0	501.0	1.8	R 590.7	R 79.7	R 1,834.6	3,118.0	R 4,952.6
2020	—	1,040.6	R 55.3	417.2	1.0	R 473.5	R 34.2	R 1,548.4	3,271.8	R 4,820.1
2021	—	1,289.3	R 84.7	634.6	1.3	R 720.7	R 42.4	R 2,052.4	3,320.2	R 5,372.6
2022	—	1,692.1	R 132.3	705.1	2.2	R 839.6	R 82.7	R 2,614.4	3,575.9	R 6,190.2
2023	—	1,418.6	113.7	572.3	3.3	689.3	64.3	2,172.2	3,749.6	5,921.9

[a] Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2023, Wisconsin

Year	Primary energy										Electricity [j]	Total energy [g,h,i]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f,g]	Total [g,h,i]		
	Prices in dollars per million Btu											
1970	0.66	0.82	1.04	1.33	0.83	2.65	0.59	1.07	0.57	0.84	7.28	2.14
1975	1.51	1.29	2.39	2.54	2.41	4.54	1.66	2.41	1.12	1.49	10.13	3.54
1980	1.47	3.43	6.30	5.10	5.72	9.43	4.31	6.21	2.87	3.78	15.25	6.92
1985	2.11	5.14	6.21	8.20	7.93	9.33	4.50	6.50	3.24	5.45	18.90	9.46
1990	1.80	4.72	5.53	9.28	8.28	9.38	2.41	6.11	3.22	4.99	17.04	9.21
1995	1.66	4.45	4.59	7.70	4.97	9.61	2.38	5.48	2.59	4.46	17.09	8.90
2000	1.66	6.26	7.50	10.95	9.18	12.48	3.29	8.18	2.76	6.30	17.82	10.86
2005	2.56	10.24	14.48	16.17	15.34	18.63	6.71	13.81	6.08	10.07	22.48	15.22
2006	2.83	10.16	16.78	17.95	19.50	21.11	7.72	16.75	6.93	10.63	24.54	16.79
2007	3.00	10.22	18.08	19.38	22.12	23.37	8.51	18.48	7.28	10.81	25.54	17.29
2008	4.66	11.03	24.12	23.08	23.25	26.63	12.29	23.84	9.00	11.97	27.18	18.18
2009	5.50	8.83	14.48	18.46	23.47	19.64	7.91	15.95	6.21	9.30	28.04	17.17
2010	4.98	8.45	18.01	19.42	24.94	23.30	—	18.87	7.08	9.15	29.26	18.25
2011	5.72	7.92	24.23	22.72	28.22	29.64	—	23.85	9.86	9.19	30.55	18.58
2012	6.01	7.20	24.62	16.72	29.60	30.26	—	22.04	10.42	8.46	30.80	19.08
2013	5.64	6.76	24.47	17.81	30.25	29.51	—	R 21.66	9.08	7.73	31.49	17.71
2014	5.69	8.43	23.14	20.01	32.56	28.22	—	21.95	R 8.76	9.30	31.56	R 18.24
2015	4.79	6.48	13.63	11.20	16.81	20.25	—	R 15.91	R 6.77	7.62	31.93	R 17.88
2016	5.76	6.01	11.67	10.41	13.40	18.01	—	14.16	R 5.55	7.01	31.57	17.55
2017	5.75	6.35	12.42	14.28	16.76	20.22	—	R 16.14	R 5.65	7.60	31.87	17.82
2018	5.77	6.14	16.18	15.69	25.82	22.42	—	18.45	R 6.47	7.68	31.28	17.16
2019	5.88	5.85	15.55	11.96	22.61	21.37	—	16.63	R 6.18	7.15	31.43	R 16.71
2020	5.95	5.47	10.50	11.15	14.68	17.53	—	13.73	R 4.94	6.51	31.52	R 16.64
2021	—	7.51	16.94	18.24	23.19	24.77	—	20.45	R 6.01	9.15	32.10	R 18.15
2022	—	9.09	28.33	19.34	40.28	32.61	—	26.88	R 9.15	R 11.10	34.72	R 19.69
2023	—	8.06	21.48	15.02	35.98	28.92	—	22.74	8.38	9.66	37.40	20.09
	Expenditures in million dollars											
1970	7.9	45.5	11.5	3.7	0.6	0.8	0.9	17.5	(s)	71.0	153.5	224.5
1975	11.6	88.6	24.9	6.8	0.6	1.2	1.8	35.3	(s)	135.5	288.4	423.9
1980	1.4	266.9	61.8	7.6	1.8	3.8	0.8	75.7	0.3	344.3	521.5	865.8
1985	1.1	378.3	119.1	12.4	0.8	13.9	3.0	149.2	0.3	528.8	779.6	1,308.4
1990	0.2	315.0	68.5	19.3	0.4	15.7	3.3	107.3	1.9	424.4	779.4	1,203.8
1995	4.7	381.7	26.3	21.3	0.3	2.6	1.6	52.0	1.1	439.4	911.9	1,351.3
2000	6.6	512.8	58.6	35.9	0.5	5.1	3.7	103.8	1.5	624.7	1,158.4	1,783.1
2005	18.7	893.6	104.3	41.1	2.6	8.4	12.5	168.9	9.4	1,090.5	1,725.7	2,816.2
2006	1.8	886.7	87.1	41.9	2.7	6.1	3.9	141.7	9.8	1,040.1	1,905.0	2,945.1
2007	3.7	922.2	105.6	48.8	1.1	6.7	1.3	163.6	11.8	1,101.2	2,047.2	3,148.5
2008	22.5	1,086.0	176.2	84.1	0.8	7.5	0.1	268.7	15.0	1,392.2	2,177.2	3,569.4
2009	16.2	818.6	82.5	52.3	0.7	5.5	(s)	141.0	7.9	983.7	2,150.0	3,133.6
2010	15.0	701.2	68.8	66.5	0.6	6.5	—	142.5	9.3	868.0	2,296.4	3,164.4
2011	15.3	698.9	116.7	70.9	0.5	8.2	—	196.3	10.3	920.8	2,403.0	3,323.8
2012	4.9	564.8	109.2	43.3	0.3	8.4	—	161.3	10.0	741.0	2,441.9	3,182.9
2013	4.9	690.1	R 87.7	57.7	0.4	8.4	—	R 154.2	11.6	R 860.8	2,542.1	R 3,402.8
2014	4.1	935.2	R 93.8	70.2	0.9	7.6	—	R 172.5	R 11.5	R 1,123.3	2,558.5	R 3,681.7
2015	2.6	611.4	R 56.6	37.6	0.2	118.1	—	R 212.6	R 11.0	R 837.6	2,561.8	R 3,399.4
2016	3.3	557.8	R 48.1	34.1	0.3	105.5	—	R 188.0	R 9.2	R 758.3	2,572.4	R 3,330.7
2017	3.0	597.1	R 56.3	56.0	0.3	120.0	—	R 232.5	R 10.3	R 843.0	2,570.8	R 3,413.9
2018	3.1	644.2	R 60.5	86.5	0.5	133.5	—	R 281.0	R 11.4	R 939.6	2,571.4	R 3,511.0
2019	3.1	623.7	R 55.9	62.8	0.2	127.6	—	R 246.5	R 10.6	R 883.9	2,525.1	R 3,409.0
2020	2.4	527.8	R 27.0	62.8	0.2	105.4	—	R 195.4	R 7.3	R 732.8	2,412.9	R 3,145.7
2021	—	795.1	64.1	107.0	0.4	150.4	—	R 321.9	R 8.5	R 1,125.5	2,547.8	R 3,673.3
2022	—	1,114.0	R 113.2	107.3	0.6	203.5	—	R 424.7	R 13.0	R 1,551.7	2,775.1	R 4,326.9
2023	—	932.3	79.7	66.3	0.9	179.8	—	326.6	12.0	1,270.9	2,962.5	4,233.5

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[g] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[j] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: Expenditure totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2023, Wisconsin

	Primary energy													
	Coal				Petroleum						Biomass			
Year	Coking coal	Steam coal	Total	Natural gas [a]	Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e,f]	Total [f,g,h]	Electricity [i]	Total energy [f,g,h]
	Prices in dollars per million Btu													
1970	0.53	0.66	0.65	0.54	0.76	1.40	2.65	0.57	1.17	1.14	1.40	0.77	4.23	1.01
1975	1.80	1.51	1.55	1.03	2.23	2.76	4.54	2.06	2.83	2.72	1.40	1.64	6.63	2.17
1980	2.27	1.47	1.55	3.12	5.18	5.55	9.43	3.31	6.14	5.96	1.40	3.42	10.10	4.34
1985	2.08	2.11	2.11	4.44	6.35	9.20	9.33	4.50	8.34	7.77	1.40	4.33	12.64	5.95
1990	—	1.80	1.80	3.37	5.66	10.33	9.38	2.41	5.55	5.99	1.02	3.53	11.69	5.14
1995	—	1.66	1.66	2.93	4.68	7.83	9.61	2.38	5.67	5.71	1.30	3.19	11.09	4.79
2000	—	1.66	1.66	5.42	7.77	11.65	12.48	3.29	6.52	7.59	1.42	5.21	11.85	6.51
2005	—	2.56	2.56	9.78	14.64	17.51	18.63	6.71	7.10	11.26	2.63	8.59	15.80	10.11
2006	—	2.83	2.83	9.36	17.01	19.41	21.11	7.72	9.62	13.85	2.59	9.24	17.16	10.97
2007	—	3.00	3.00	9.49	18.33	21.84	23.37	8.51	10.90	15.32	2.44	9.96	18.06	11.79
2008	—	3.23	3.23	10.42	24.43	26.11	26.63	12.29	12.95	18.38	2.73	11.14	19.08	12.97
2009	—	3.52	3.52	7.71	14.63	20.23	19.64	7.91	13.29	14.53	2.55	8.58	19.74	11.23
2010	—	3.57	3.57	7.49	18.22	19.84	23.30	11.55	R 15.55	R 17.16	2.58	R 9.05	20.07	R 11.62
2011	—	3.71	3.71	6.95	25.26	22.90	29.64	15.48	R 16.84	R 20.70	2.79	R 9.88	21.47	R 12.51
2012	—	4.02	4.02	5.70	25.46	16.43	30.26	16.75	R 18.44	R 21.37	2.68	R 9.46	21.53	R 12.28
2013	—	3.90	3.90	5.86	24.86	17.61	29.51	16.53	R 19.05	R 21.43	2.66	R 9.62	21.69	R 12.27
2014	—	3.99	3.99	7.79	23.20	19.98	28.22	15.80	R 19.56	R 21.17	3.21	R 10.69	22.04	R 13.19
2015	—	3.95	3.95	5.40	14.89	10.46	20.25	10.18	R 17.33	R 15.95	3.12	R 8.00	22.21	R 11.26
2016	—	3.66	3.66	4.83	11.99	9.62	18.01	7.25	R 14.60	R 13.45	3.04	R 6.88	21.97	R 10.38
2017	—	3.73	3.73	5.13	14.49	13.50	20.22	9.71	15.11	15.07	2.97	7.50	21.96	10.77
2018	—	3.88	3.88	4.96	17.59	14.89	22.42	11.01	18.34	17.97	2.77	7.98	21.49	10.95
2019	—	3.96	3.96	4.82	16.57	11.15	21.37	11.22	R 19.10	17.57	2.74	7.80	21.43	10.79
2020	—	3.77	3.77	4.23	12.21	10.32	17.53	8.30	R 16.48	14.52	2.35	6.73	21.36	9.97
2021	—	3.95	3.95	6.66	17.26	17.35	24.77	12.42	R 18.66	R 18.42	2.75	R 9.57	22.36	12.57
2022	—	4.19	4.19	8.14	28.11	18.40	32.61	19.84	R 26.08	R 26.60	2.90	R 12.73	24.88	R 15.62
2023	—	4.68	4.68	6.54	23.40	14.05	28.92	17.81	24.13	23.56	2.96	10.81	25.43	14.43
	Expenditures in million dollars													
1970	5.0	73.0	78.0	77.3	35.1	5.0	34.4	3.9	51.7	130.1	5.3	290.8	121.3	412.1
1975	12.0	72.6	84.6	159.5	92.9	19.1	48.4	9.3	84.5	254.2	6.7	505.0	240.2	745.2
1980	12.3	72.3	84.6	404.2	108.3	47.0	80.9	19.4	173.2	428.8	29.4	946.9	450.4	1,397.3
1985	0.1	104.6	104.7	499.2	117.8	49.4	55.7	2.2	159.9	385.0	34.4	1,023.4	723.7	1,747.1
1990	—	85.0	85.0	394.8	137.6	55.0	38.4	9.7	181.8	422.4	29.5	931.8	754.6	1,686.3
1995	—	78.4	78.4	411.8	111.7	55.0	46.7	5.3	223.0	441.8	58.3	990.2	873.8	1,864.0
2000	—	66.4	66.4	788.5	377.6	130.6	50.7	11.1	359.4	929.3	67.8	1,851.9	1,030.6	2,882.6
2005	—	100.4	100.4	1,218.4	480.4	210.5	165.4	44.0	378.2	1,278.4	95.5	2,692.7	1,328.4	4,021.1
2006	—	113.0	113.0	1,048.7	549.3	222.1	212.1	29.8	489.5	1,502.8	100.1	2,764.7	1,434.7	4,199.4
2007	—	120.5	120.5	1,088.6	600.6	236.1	201.6	38.0	511.4	1,587.6	72.2	2,868.8	1,519.2	4,388.0
2008	—	123.8	123.8	1,250.7	750.2	104.1	130.3	53.6	550.2	1,588.4	76.4	3,039.4	1,555.6	4,594.9
2009	—	120.3	120.3	861.4	314.3	94.1	99.0	11.5	478.3	997.2	58.0	2,037.0	1,454.3	3,491.3
2010	—	125.4	125.4	850.5	386.5	97.7	123.0	7.3	R 622.0	R 1,236.5	85.7	R 2,298.1	1,552.2	R 3,850.3
2011	—	126.9	126.9	829.7	557.8	131.8	160.1	11.5	R 688.0	R 1,549.2	97.5	R 2,603.3	1,656.4	R 4,259.8
2012	—	125.6	125.6	670.1	579.4	94.3	154.8	10.5	R 673.9	R 1,512.9	91.2	R 2,399.9	1,668.4	R 4,068.2
2013	—	122.6	122.6	810.4	623.6	125.8	152.0	7.0	R 788.7	R 1,697.2	89.9	R 2,720.2	1,720.8	R 4,441.0
2014	—	129.0	129.0	1,132.9	605.6	164.6	107.9	5.0	R 834.1	R 1,717.2	90.3	R 3,069.4	1,780.9	R 4,850.3
2015	—	106.8	106.8	765.0	376.8	85.6	105.4	5.2	R 655.4	R 1,228.5	85.1	R 2,185.5	1,806.5	R 3,991.9
2016	—	68.7	68.7	724.8	283.3	62.6	92.0	6.5	R 534.8	R 979.2	87.3	R 1,860.0	1,792.1	R 3,652.1
2017	—	73.6	73.6	819.9	368.5	65.7	104.1	10.2	594.0	1,142.4	79.2	2,115.2	1,803.8	3,919.0
2018	—	76.1	76.1	853.6	443.2	97.5	118.1	11.7	681.5	1,352.1	80.6	2,362.3	1,787.6	4,149.9
2019	—	68.5	68.5	822.9	424.6	70.9	111.3	9.9	R 655.7	R 1,272.4	72.0	R 2,235.8	1,727.1	R 3,962.8
2020	—	47.4	47.4	682.5	291.7	53.2	91.9	7.8	R 562.4	R 1,006.9	54.0	R 1,790.8	1,615.7	R 3,406.4
2021	—	44.7	44.7	1,045.9	428.2	96.6	125.0	12.8	R 684.3	R 1,346.9	50.5	R 2,487.9	1,777.1	R 4,265.0
2022	—	41.8	41.8	1,284.5	705.2	101.4	174.7	20.9	R 896.1	R 1,898.3	R 53.1	R 3,277.7	2,000.0	R 5,277.6
2023	—	32.5	32.5	977.0	572.9	55.0	158.7	15.6	712.3	1,514.5	52.9	2,576.9	1,999.1	4,576.0

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[i] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET6. Transportation sector energy price and expenditure estimates, selected years, 1970-2023, Wisconsin

	Primary energy												
			Petroleum										
	Coal	Natural gas[a]	Aviation gasoline	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Lubricants	Motor gasoline [e]	Residual fuel oil	Total	Total [f]	Electricity [g]	Total energy [f]
Year	Prices in dollars per million Btu												
1970	0.66	—	2.17	1.33	1.33	0.74	5.08	2.65	0.55	2.49	2.49	—	2.49
1975	1.51	—	3.45	2.62	2.54	2.08	7.48	4.54	1.44	4.24	4.24	—	4.24
1980	—	—	9.02	7.28	5.10	6.38	14.36	9.43	3.80	8.99	8.99	—	8.99
1985	—	—	9.99	8.69	10.04	6.19	18.18	9.33	4.71	9.19	9.19	—	9.19
1990	—	3.36	9.32	8.79	11.70	5.99	20.61	9.38	2.80	9.28	9.28	—	9.28
1995	—	2.93	8.36	8.19	13.05	3.97	21.75	9.61	2.72	9.22	9.22	15.35	9.22
2000	—	4.57	10.87	11.32	16.50	6.65	23.20	12.48	3.23	12.05	12.05	15.52	12.05
2005	—	9.22	18.56	17.94	21.72	13.37	35.22	18.63	6.89	18.37	18.36	—	18.36
2006	—	9.56	22.31	20.19	23.24	15.03	43.88	21.11	7.46	20.77	20.77	—	20.77
2007	—	9.09	23.70	21.80	25.46	15.98	47.16	23.37	7.90	22.91	22.90	—	22.90
2008	—	10.86	27.23	27.70	29.40	22.77	55.12	26.63	10.46	26.94	26.94	—	26.94
2009	—	7.09	20.32	18.21	24.23	12.61	56.07	19.64	—	19.27	19.27	—	19.27
2010	—	7.76	25.19	21.93	26.55	16.27	58.80	23.30	—	22.93	22.93	—	22.93
2011	—	6.01	31.64	28.14	29.78	22.56	69.54	29.64	—	29.25	29.25	—	29.25
2012	—	5.60	33.04	28.87	22.61	22.97	72.11	30.26	—	29.93	29.92	—	29.92
2013	—	R 5.50	32.71	28.92	23.92	22.06	69.42	29.51	—	29.38	29.37	—	29.37
2014	—	R 6.13	33.16	28.21	26.54	20.59	69.44	28.22	—	28.26	28.25	—	28.25
2015	—	R 6.17	24.86	19.57	16.00	11.88	67.28	20.25	—	20.15	20.14	42.97	20.14
2016	—	R 6.06	21.62	16.76	15.07	9.72	65.78	18.01	—	17.74	17.73	43.04	R 17.74
2017	—	R 6.14	24.13	19.26	19.32	12.10	67.25	20.22	—	19.98	19.97	41.95	19.97
2018	—	R 7.05	27.04	23.06	19.94	16.14	72.37	22.42	7.86	22.66	22.64	40.58	22.64
2019	—	R 6.90	25.57	21.91	16.42	14.44	74.92	21.37	7.41	21.55	21.53	40.59	21.53
2020	—	R 6.79	22.34	18.00	15.37	9.10	75.34	17.53	5.40	17.77	17.75	42.91	17.75
2021	—	R 6.85	28.86	23.81	24.25	15.02	81.25	24.77	8.16	R 24.54	R 24.52	44.32	R 24.52
2022	—	R 7.57	36.02	36.29	24.15	27.17	97.37	32.61	13.59	33.86	R 33.84	48.50	R 33.84
2023	—	8.07	32.62	30.49	19.30	21.60	105.48	28.92	11.11	29.45	29.43	50.43	29.43
	Expenditures in million dollars												
1970	0.1	—	3.6	32.3	0.4	6.7	17.0	598.4	(s)	658.4	658.5	—	658.5
1975	(s)	—	3.0	92.4	0.9	25.5	22.6	1,181.0	2.6	1,328.0	1,328.0	—	1,328.0
1980	—	—	5.6	363.6	1.6	86.1	45.5	2,373.2	5.6	2,881.3	2,881.3	—	2,881.3
1985	—	—	5.1	493.3	7.1	57.8	52.4	2,211.8	4.1	2,831.6	2,832.5	—	2,832.5
1990	—	0.1	5.7	633.9	5.3	47.9	66.9	2,360.2	(s)	3,119.9	3,126.2	—	3,126.2
1995	—	0.2	15.8	692.5	6.1	46.0	67.3	2,705.2	0.4	3,533.3	3,533.5	(s)	3,533.5
2000	—	0.8	6.1	1,072.9	2.8	118.4	76.7	3,721.6	0.1	4,998.7	4,999.6	(s)	4,999.6
2005	—	0.6	7.8	1,826.8	14.4	216.7	98.3	5,762.0	4.4	7,930.3	7,930.9	—	7,930.9
2006	—	0.7	8.0	2,262.0	15.7	234.2	119.3	6,406.6	6.1	9,051.9	9,052.5	—	9,052.5
2007	—	0.7	7.3	2,411.4	15.6	201.8	132.4	7,274.9	1.8	10,045.1	10,045.8	—	10,045.8
2008	—	0.6	8.7	2,979.7	26.8	340.6	143.7	8,048.2	0.4	11,548.1	11,548.7	—	11,548.7
2009	—	0.5	4.5	R 1,816.9	15.5	178.3	131.4	5,948.2	—	R 8,094.8	R 8,095.2	—	R 8,095.2
2010	—	0.4	6.9	2,314.5	2.6	264.2	163.3	7,147.5	—	9,899.0	R 9,899.4	—	R 9,899.4
2011	—	0.4	9.4	R 2,915.7	3.2	351.5	180.8	8,747.6	—	R 12,208.2	R 12,208.6	—	R 12,208.6
2012	—	0.3	9.5	R 3,124.9	2.1	287.0	177.4	8,879.6	—	R 12,480.6	R 12,480.9	—	R 12,480.9
2013	—	0.6	8.6	R 3,040.6	3.0	277.2	173.8	8,627.1	—	R 12,130.1	R 12,130.7	—	R 12,130.7
2014	—	R 0.8	10.0	R 3,288.4	3.5	257.8	191.0	8,730.8	—	R 12,481.5	R 12,482.3	—	R 12,482.3
2015	—	R 0.8	7.8	R 2,257.6	3.0	153.2	198.6	6,181.4	—	R 8,801.6	R 8,802.3	(s)	R 8,802.4
2016	—	R 0.5	6.6	R 1,861.9	3.5	130.2	180.9	5,511.7	—	R 7,694.7	R 7,695.2	(s)	R 7,695.3
2017	—	R 2.6	7.2	R 2,076.3	11.5	170.1	166.0	6,109.8	—	R 8,540.9	R 8,543.5	(s)	R 8,543.6
2018	—	R 3.3	8.7	R 2,785.0	11.0	R 239.6	181.3	7,033.4	0.2	R 10,259.3	R 10,262.5	(s)	R 10,262.6
2019	—	R 3.4	8.5	2,649.6	7.5	R 231.4	R 177.7	6,569.0	0.3	9,643.9	R 9,647.3	0.2	R 9,647.4
2020	—	R 3.3	6.3	R 2,106.7	6.2	91.0	R 160.1	4,737.0	0.3	R 7,107.5	R 7,110.8	0.1	R 7,111.0
2021	—	R 3.4	9.2	R 2,865.6	6.2	174.3	R 183.3	7,306.2	0.2	R 10,545.0	R 10,548.4	0.2	R 10,548.5
2022	—	R 3.3	11.9	R 4,454.0	7.5	R 310.0	R 236.9	9,731.9	0.3	R 14,752.5	R 14,755.8	0.2	R 14,756.0
2023	—	2.8	10.3	3,682.2	6.0	273.9	185.5	8,675.2	0.2	12,833.3	12,836.0	0.2	12,836.2

[a] Transportation use of natural gas as vehicle fuel only.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET7. Electric power sector price and expenditure estimates, selected years, 1970-2023, Wisconsin

Year	Coal	Natural gas [a]	Petroleum: Distillate fuel oil	Petroleum: Petroleum coke	Petroleum: Residual fuel oil	Petroleum: Total	Nuclear fuel	Biomass: Wood and waste [b]	Electricity imports [c]	Total energy [d]
	Prices in dollars per million Btu									
1970	0.39	0.42	0.67	0.36	0.56	0.54	0.15	0.65	—	0.39
1975	0.86	0.82	2.30	0.72	1.65	1.93	0.32	—	—	0.71
1980	1.42	2.94	5.58	1.17	4.28	5.35	0.47	1.74	—	1.25
1985	1.71	4.11	5.48	1.38	—	5.12	0.58	0.79	—	1.42
1990	1.36	2.93	5.26	—	—	5.26	0.48	0.68	—	1.15
1995	1.14	2.21	3.85	0.60	—	2.44	0.44	0.80	—	1.00
2000	1.02	4.44	6.27	0.60	3.35	3.92	0.50	0.76	—	1.05
2005	1.26	8.68	12.19	0.69	—	3.64	0.49	0.82	16.53	1.83
2006	1.47	7.27	14.98	1.31	—	3.55	0.53	1.19	17.32	1.72
2007	1.67	7.43	16.52	1.34	—	4.10	0.51	1.94	18.25	1.96
2008	1.94	9.11	21.20	1.46	—	3.69	0.50	2.17	—	2.15
2009	1.99	4.76	12.65	1.42	—	2.42	0.55	2.55	—	1.87
2010	2.11	5.37	16.53	1.64	—	2.84	0.64	2.43	—	2.02
2011	2.50	4.85	22.57	1.64	—	3.73	0.67	2.78	—	2.34
2012	2.37	3.22	22.25	1.69	—	9.71	0.73	2.72	—	2.11
2013	2.32	4.39	22.39	1.75	—	8.29	0.77	2.83	—	2.25
2014	2.31	5.26	21.47	1.84	—	8.85	0.72	3.04	—	2.40
2015	2.27	3.17	14.44	1.68	—	5.12	0.72	2.63	—	2.17
2016	2.21	2.77	11.48	1.72	—	4.15	0.71	3.35	—	2.09
2017	2.22	3.20	12.68	1.79	—	3.97	0.71	3.22	—	2.17
2018	2.28	3.22	17.16	1.79	—	5.33	0.68	2.71	—	2.22
2019	2.22	2.74	13.68	1.86	—	5.61	0.65	2.38	—	2.08
2020	1.96	2.40	9.12	1.89	—	3.19	0.62	2.25	—	1.85
2021	2.06	3.69	15.86	1.90	—	9.71	0.73	2.14	—	2.34
2022	2.44	R 5.82	23.83	4.38	—	7.60	0.59	2.38	—	R 3.25
2023	2.48	3.84	19.67	5.15	—	14.42	0.59	2.86	—	2.66
	Expenditures in million dollars									
1970	90.8	13.1	0.5	0.5	4.0	5.0	0.3	0.1	—	109.2
1975	178.3	16.7	7.7	0.2	5.7	13.6	36.6	—	—	245.2
1980	384.7	40.6	16.2	0.1	1.8	18.1	50.3	1.1	—	494.9
1985	529.4	5.4	8.0	0.2	—	8.2	67.9	0.7	—	611.7
1990	471.2	8.0	3.5	—	—	3.5	57.3	2.3	—	542.4
1995	444.0	22.2	4.3	0.5	—	4.9	50.8	3.9	—	525.8
2000	462.4	95.4	10.3	0.7	(s)	11.1	60.5	4.0	—	633.4
2005	598.0	514.1	20.3	3.3	—	23.6	51.0	5.5	(s)	1,192.2
2006	618.5	323.2	21.4	9.5	—	30.9	67.4	9.7	(s)	1,049.7
2007	706.9	409.4	28.6	10.4	—	39.0	69.6	17.2	(s)	1,242.1
2008	848.7	380.1	20.1	10.9	—	30.9	63.7	19.9	—	1,343.3
2009	773.7	198.1	6.9	7.9	—	14.8	73.5	25.0	—	1,085.1
2010	886.5	231.5	8.2	9.3	—	17.6	88.2	26.1	—	1,249.9
2011	1,027.0	234.3	10.9	7.1	—	18.0	81.2	41.1	—	1,401.7
2012	807.3	284.4	12.8	1.5	—	14.3	108.8	42.8	—	1,257.7
2013	981.3	273.5	9.2	1.5	—	10.7	93.5	42.6	—	1,401.7
2014	885.6	323.8	15.3	2.4	—	17.7	71.6	53.6	—	1,352.3
2015	862.8	326.4	5.6	1.8	—	7.3	75.2	45.6	—	1,317.4
2016	747.9	338.0	4.6	2.1	—	6.7	75.4	48.0	—	1,215.9
2017	816.8	349.2	5.3	3.0	—	8.3	72.1	46.7	—	1,293.0
2018	779.9	424.7	8.1	2.8	—	10.9	71.9	36.9	—	1,324.4
2019	582.7	414.1	9.0	2.6	—	11.6	68.0	33.5	—	1,109.9
2020	463.3	396.0	2.7	2.5	—	5.2	63.3	28.3	—	956.3
2021	567.9	571.7	42.1	4.0	—	46.1	75.9	28.2	—	1,289.8
2022	542.9	R 1,047.8	9.3	8.6	—	18.0	61.9	35.0	—	R 1,705.6
2023	527.6	730.9	21.1	3.1	—	24.2	59.6	41.0	—	1,383.3

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[c] Electricity imported from Canada and Mexico.
[d] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET1. Primary energy, electricity, and total energy price and expenditure estimates, selected years, 1970-2023, Wyoming

Year	Primary energy														Electric power sector [i,k,l]	Electricity [m]	Total energy [h,i,j]
	Coal			Natural gas [a]	Petroleum							Nuclear fuel	Biomass				
	Coking coal	Steam coal	Total		Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total		Wood and waste [g,h]	Total [h,i,j,k]			
	Prices in dollars per million Btu																
1970	—	0.16	0.16	0.38	1.11	1.56	0.76	2.93	0.55	1.06	1.77	—	1.25	0.85	0.14	4.53	1.32
1975	—	0.31	0.31	0.71	2.51	3.31	2.12	4.77	1.71	2.68	3.33	—	1.47	1.50	0.26	4.63	2.55
1980	—	0.70	0.70	2.45	6.44	5.76	6.59	10.28	3.56	5.25	7.34	—	1.99	3.01	0.59	7.45	5.86
1985	—	1.01	1.01	4.28	6.74	8.56	6.53	8.87	3.14	5.99	7.57	—	2.25	2.48	0.93	12.54	6.79
1990	—	0.86	0.86	3.57	7.74	8.09	6.45	8.66	2.46	5.82	7.93	—	2.63	2.28	0.84	12.39	6.53
1995	—	0.84	0.84	3.43	7.19	7.62	5.33	8.76	2.29	7.36	7.77	—	3.21	2.36	0.83	12.73	6.18
2000	—	0.82	0.82	4.48	9.60	11.87	7.21	11.91	2.99	6.22	10.04	—	5.48	2.88	0.80	12.81	7.92
2005	—	0.97	0.97	8.47	16.83	17.52	12.99	17.97	5.28	13.64	16.99	—	8.52	4.84	0.97	15.21	12.94
2006	—	1.03	1.03	9.24	19.14	20.34	15.07	20.32	4.97	21.79	19.50	—	9.96	5.68	1.04	15.55	14.55
2007	—	1.10	1.10	7.01	20.65	22.66	16.42	22.54	8.63	19.32	21.14	—	11.01	5.91	1.11	15.61	14.95
2008	—	1.18	1.18	8.10	26.63	26.59	23.85	25.98	12.36	17.47	25.93	—	13.64	7.09	1.19	16.73	17.86
2009	—	1.19	1.19	6.81	16.28	21.42	13.31	18.13	7.36	19.33	17.18	—	9.85	5.13	1.19	17.94	13.64
2010	—	1.31	1.31	5.92	R 20.35	21.96	16.87	22.09	8.94	R 22.61	R 21.02	—	11.26	R 5.94	1.32	18.27	R 15.30
2011	—	1.52	1.52	6.35	26.35	26.20	23.24	27.21	—	R 23.80	R 26.35	—	14.16	R 7.45	1.53	19.39	R 18.13
2012	—	1.48	1.48	5.61	26.96	21.76	23.60	27.90	15.41	R 24.15	R 26.82	—	15.52	R 7.37	1.47	21.19	R 18.63
2013	—	1.56	1.56	5.58	26.41	22.20	22.72	27.35	—	R 24.90	R 26.40	—	15.52	R 6.85	1.55	22.24	R 18.38
2014	—	1.63	1.63	6.67	25.78	25.14	21.11	26.68	—	R 25.52	R 25.93	—	15.34	R 7.41	1.61	22.87	R 18.74
2015	—	1.67	1.67	5.92	17.39	16.16	12.52	19.51	—	R 23.72	R 18.37	—	11.06	R 5.51	1.65	23.48	R 14.82
2016	—	1.71	1.71	4.97	14.94	16.56	10.43	17.40	—	R 21.04	R 16.08	—	9.44	R 5.03	1.71	24.12	R 13.22
2017	—	1.71	1.71	5.27	17.66	21.03	12.47	19.66	—	20.36	18.48	—	10.62	R 5.57	1.68	24.40	14.47
2018	—	1.73	1.73	4.77	21.22	21.14	16.10	22.56	—	23.78	21.66	—	11.74	6.28	1.70	23.87	15.38
2019	—	1.69	1.69	4.61	20.04	17.45	15.39	21.53	—	R 26.08	20.58	—	11.30	6.23	1.66	23.91	14.91
2020	—	1.74	1.74	4.77	16.14	15.05	10.84	18.48	—	R 22.93	17.07	—	R 9.10	5.39	1.72	24.41	R 13.56
2021	—	1.75	1.75	6.46	22.14	21.94	15.39	25.86	—	R 23.51	R 23.16	—	R 10.90	7.30	1.82	24.29	R 17.27
2022	—	1.72	1.72	9.16	R 33.02	23.72	26.82	32.24	—	R 33.23	R 32.30	—	R 16.84	9.51	1.86	24.26	R 21.76
2023	—	1.94	1.94	7.86	28.33	21.42	21.59	29.26	—	31.58	28.28	—	15.32	8.80	2.11	24.73	19.69
	Expenditures in million dollars																
1970	—	10.2	10.2	28.4	32.7	10.3	0.5	90.8	2.7	12.8	149.7	—	0.5	188.8	-8.9	46.9	226.8
1975	—	39.8	39.8	36.4	111.2	20.9	1.5	184.4	13.6	22.0	353.5	—	0.5	430.2	-30.3	70.0	469.9
1980	—	187.4	187.4	91.6	496.4	42.4	6.0	458.9	24.0	58.0	1,085.7	—	1.5	1,366.2	-140.7	176.1	1,401.6
1985	—	408.3	408.3	176.5	283.4	53.3	5.6	357.3	1.4	80.7	781.7	—	2.2	1,368.6	-346.3	427.3	1,449.7
1990	—	397.0	397.0	162.8	419.4	35.6	5.1	323.2	(s)	45.6	829.0	—	2.9	1,392.4	-351.0	482.6	1,524.0
1995	—	389.1	389.1	243.0	432.1	53.9	4.7	361.7	0.1	49.2	901.6	—	2.1	1,535.8	-346.6	473.1	1,662.2
2000	—	413.0	413.0	275.7	704.1	52.2	11.7	483.2	(s)	78.0	1,329.1	—	3.0	2,020.8	-372.2	525.6	2,174.2
2005	—	477.3	477.3	528.5	1,381.7	79.8	15.0	763.7	2.8	83.0	2,326.1	—	8.9	3,343.4	-446.1	713.4	3,610.7
2006	—	506.4	506.4	576.5	1,803.5	90.8	24.9	877.3	2.5	88.3	2,887.5	—	9.1	3,981.1	-474.9	770.7	4,276.9
2007	—	542.4	542.4	445.3	1,950.5	124.7	35.2	987.6	3.3	95.3	3,196.6	—	11.0	4,197.3	-513.3	805.5	4,489.6
2008	—	588.8	588.8	502.7	2,542.8	159.1	53.1	1,089.1	6.3	125.0	3,975.3	—	15.1	5,083.3	-553.0	925.8	5,456.1
2009	—	563.4	563.4	386.9	R 1,385.2	124.6	32.5	787.3	0.9	192.9	R 2,523.5	—	6.0	R 3,480.2	-526.8	982.9	R 3,936.3
2010	—	636.2	636.2	371.8	R 1,775.1	114.5	34.7	956.0	0.6	R 235.1	R 3,116.0	—	7.5	R 4,131.9	-597.2	1,035.0	R 4,569.6
2011	—	710.2	710.2	413.7	R 2,341.5	146.6	48.0	1,154.3	—	R 274.3	R 3,964.7	—	8.7	R 5,097.7	-666.7	1,118.0	R 5,548.9
2012	—	724.1	724.1	380.6	R 2,485.7	103.7	46.3	1,233.7	0.1	R 274.1	R 4,143.6	—	8.1	R 5,256.5	-677.6	1,189.9	R 5,768.8
2013	—	813.0	813.0	377.5	R 2,233.2	111.5	44.8	1,199.1	—	R 241.5	R 3,830.1	—	10.2	R 5,031.0	-757.7	1,254.7	R 5,528.0
2014	—	797.9	797.9	456.1	R 2,461.7	145.6	35.1	1,129.4	—	R 251.5	R 4,023.3	—	10.1	R 5,288.0	-737.5	1,294.7	R 5,845.2
2015	—	811.7	811.7	R 414.7	R 1,446.8	66.4	22.8	862.2	—	R 223.8	R 2,622.0	—	R 22.6	R 3,871.2	-758.1	1,311.7	R 4,424.8
2016	—	781.4	781.4	379.8	R 1,183.1	67.1	16.8	777.3	—	R 162.8	R 2,207.1	—	R 17.0	R 3,385.3	-731.8	1,316.8	R 3,970.3
2017	—	782.9	782.9	R 412.0	R 1,429.6	100.2	22.8	834.3	—	163.3	R 2,550.1	—	R 22.2	R 3,767.2	-721.7	1,347.3	R 4,392.8
2018	—	787.2	787.2	R 437.5	R 1,889.5	109.4	R 28.0	904.2	—	172.4	R 3,103.6	—	R 24.1	R 4,352.4	-727.3	1,325.3	R 4,950.4
2019	—	692.4	692.4	417.0	R 1,710.8	102.5	R 30.6	854.8	—	R 173.5	R 2,872.1	—	R 23.3	R 4,004.8	-634.8	1,315.7	R 4,685.8
2020	—	676.9	676.9	R 427.4	R 1,203.4	81.7	R 18.9	685.8	—	R 152.8	R 2,142.6	—	R 6.2	R 3,253.1	-637.6	1,230.1	R 3,845.6
2021	—	660.5	660.5	521.6	R 1,797.9	120.4	R 38.4	1,017.6	—	R 174.1	R 3,148.4	—	R 7.6	R 4,338.1	-653.5	1,271.3	R 4,956.0
2022	—	671.4	671.4	852.8	R 2,676.2	141.7	R 54.8	1,230.4	—	R 245.8	R 4,349.0	—	R 14.3	R 5,887.5	-694.5	1,326.2	R 6,519.1
2023	—	710.7	710.7	806.3	2,243.9	133.0	65.2	1,124.6	—	207.6	3,774.2	—	11.4	5,302.5	-756.5	1,372.3	5,918.3

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity imports are included in total primary energy and electric power sector but are not shown separately.
[l] Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double counting.
[m] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET2. Total end-use energy price and expenditure estimates, selected years, 1970-2023, Wyoming

Year	Primary energy											Electricity [k]	Total energy [h,i,j]
			Petroleum							Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Motor gasoline [e]	Residual fuel oil	Other [f]	Total	Wood and waste [g,h]	Total [h,i,j]		
	Prices in dollars per million Btu												
1970	0.43	0.39	1.11	1.56	0.76	2.93	0.55	1.06	1.77	1.25	1.12	4.53	1.32
1975	0.90	0.70	2.51	3.31	2.12	4.77	1.68	2.68	3.34	1.47	2.36	4.63	2.55
1980	1.71	2.44	6.43	5.76	6.59	10.28	3.56	5.25	7.34	1.99	5.68	7.45	5.86
1985	1.94	4.28	6.76	8.56	6.53	8.87	3.14	5.99	7.58	2.25	5.70	12.54	6.79
1990	1.13	3.57	7.76	8.09	6.45	8.66	2.46	5.82	7.94	2.63	5.36	12.39	6.53
1995	1.04	3.42	7.23	7.62	5.33	8.76	2.29	7.36	7.79	3.21	5.13	12.73	6.18
2000	1.23	4.50	9.62	11.87	7.21	11.91	2.99	6.22	10.04	5.48	7.06	12.81	7.92
2005	1.31	8.49	16.85	17.52	12.99	17.97	5.28	13.64	17.00	8.52	12.48	15.21	12.94
2006	1.37	9.28	19.15	20.34	15.07	20.32	4.97	21.79	19.51	9.96	14.35	15.55	14.55
2007	1.50	7.02	20.67	22.66	16.42	22.54	8.63	19.32	21.15	11.01	14.81	15.61	14.95
2008	1.58	8.11	26.65	26.59	23.85	25.98	12.36	17.47	25.94	13.64	18.11	16.73	17.86
2009	1.60	6.84	16.30	21.42	13.31	18.13	7.36	19.33	17.19	9.85	12.64	17.94	13.64
2010	1.68	5.92	20.37	21.96	16.87	22.09	8.94	R 22.61	R 21.03	11.26	R 14.60	18.27	R 15.30
2011	1.82	6.34	26.37	26.20	23.24	27.21	—	R 23.80	R 26.36	14.16	R 17.84	19.39	R 18.13
2012	1.91	5.61	26.98	21.76	23.60	27.90	15.41	R 24.15	R 26.83	15.52	R 18.06	21.19	R 18.63
2013	2.15	5.57	26.42	22.20	22.72	27.35	—	R 24.90	R 26.41	15.52	R 17.49	22.24	R 18.38
2014	2.33	6.67	25.79	25.14	21.11	26.68	—	R 25.52	R 25.94	15.34	R 17.82	22.87	R 18.74
2015	2.23	5.95	17.40	16.16	12.52	19.51	—	R 23.72	R 18.38	11.06	R 12.83	23.48	R 14.82
2016	2.14	4.88	14.96	16.56	10.43	17.40	—	R 21.04	R 16.09	9.44	R 10.80	24.12	R 13.22
2017	2.29	5.29	17.68	21.03	12.47	19.66	—	20.36	18.49	10.62	R 12.27	24.40	14.47
2018	2.36	4.79	21.23	21.14	16.10	22.56	—	23.78	21.66	11.74	13.61	23.87	15.38
2019	2.42	4.67	20.06	17.45	15.39	21.53	—	R 26.08	20.59	11.30	13.00	23.91	14.91
2020	2.44	4.95	16.16	15.05	10.84	18.48	—	R 22.93	R 17.09	R 9.10	R 11.21	24.41	R 13.56
2021	2.55	6.54	22.17	21.94	15.39	25.86	—	R 23.51	R 23.19	R 10.90	R 15.70	24.29	R 17.27
2022	2.82	9.30	R 33.05	23.72	26.82	32.24	—	R 33.23	R 32.32	R 16.84	R 21.20	24.26	R 21.76
2023	2.88	8.03	28.35	21.42	21.59	29.26	—	31.58	28.29	15.32	18.55	24.73	19.69
	Expenditures in million dollars												
1970	1.9	27.9	32.6	10.3	0.5	90.8	2.6	12.8	149.6	0.5	179.9	46.9	226.8
1975	11.4	36.0	111.1	20.9	1.5	184.4	12.2	22.0	352.0	0.5	399.9	70.0	469.9
1980	52.5	90.7	491.4	42.4	6.0	458.9	24.0	58.0	1,080.7	1.5	1,225.5	176.1	1,401.6
1985	67.6	175.9	278.4	53.3	5.6	357.3	1.4	80.7	776.7	2.2	1,022.3	427.3	1,449.7
1990	49.3	162.6	416.4	35.6	5.1	323.2	(s)	45.6	826.0	2.9	1,041.4	482.6	1,524.0
1995	46.9	241.9	428.8	53.9	4.7	361.7	0.1	49.2	898.3	2.1	1,189.2	473.1	1,662.2
2000	50.7	268.6	701.3	52.2	11.7	483.2	(s)	78.0	1,326.3	3.0	1,648.7	525.6	2,174.2
2005	43.0	525.2	1,375.9	79.8	15.0	763.7	2.8	83.0	2,320.2	8.9	2,897.3	713.4	3,610.7
2006	47.0	570.9	1,795.2	90.8	24.9	877.3	2.5	88.3	2,879.2	9.1	3,506.2	770.7	4,276.9
2007	53.2	431.8	1,941.9	124.7	35.2	987.6	3.3	95.3	3,188.0	11.0	3,684.0	805.5	4,489.6
2008	55.5	494.8	2,532.4	159.1	53.1	1,089.1	6.3	125.0	3,964.9	15.1	4,530.3	925.8	5,456.1
2009	49.7	381.7	R 1,377.8	124.6	32.5	787.3	0.9	192.9	R 2,516.1	6.0	R 2,953.5	982.9	R 3,936.3
2010	53.1	368.5	R 1,764.6	114.5	34.7	956.0	0.6	R 235.1	R 3,105.6	7.5	R 3,534.7	1,035.0	R 4,569.6
2011	60.2	410.8	R 2,328.0	146.6	48.0	1,154.3	—	R 274.3	R 3,951.2	8.7	R 4,431.0	1,118.0	R 5,548.9
2012	60.2	377.7	R 2,474.9	103.7	46.3	1,233.7	0.1	R 274.1	R 4,132.8	8.1	R 4,578.9	1,189.9	R 5,768.8
2013	68.6	R 374.0	R 2,223.7	111.5	44.8	1,199.1	—	R 241.5	R 3,820.5	10.2	R 4,273.3	1,254.7	R 5,528.0
2014	75.5	450.3	R 2,453.0	145.6	35.1	1,129.4	—	R 251.5	R 4,014.6	10.1	R 4,550.5	1,294.7	R 5,845.2
2015	65.9	R 408.7	R 1,440.6	66.4	22.8	862.2	—	R 223.8	R 2,615.9	R 22.6	R 3,113.1	1,311.7	R 4,424.8
2016	68.9	365.4	R 1,178.2	67.1	16.8	777.3	—	R 162.8	R 2,202.1	R 17.0	R 2,653.5	1,316.8	R 3,970.3
2017	72.7	R 406.7	R 1,423.4	100.2	22.8	834.3	—	163.3	R 2,543.9	R 22.2	R 3,045.5	1,347.3	R 4,392.8
2018	74.3	R 430.1	R 1,882.7	109.4	R 28.0	904.2	—	172.4	R 3,096.7	R 24.1	R 3,625.1	1,325.3	R 4,950.4
2019	74.9	R 406.5	R 1,704.0	102.5	R 30.6	854.8	—	R 173.5	R 2,865.3	R 23.3	R 3,370.0	1,315.7	R 4,685.8
2020	58.5	413.7	R 1,197.8	81.7	R 18.9	685.8	—	R 152.8	R 2,137.1	R 6.2	R 2,615.5	1,230.1	R 3,845.6
2021	67.0	R 472.9	R 1,786.6	120.4	R 38.4	1,017.6	—	R 174.1	R 3,137.1	R 7.6	R 3,684.6	1,271.3	R 4,956.0
2022	77.4	766.6	R 2,662.0	141.7	R 54.8	1,230.4	—	R 245.8	R 4,334.7	R 14.3	R 5,193.0	1,326.2	R 6,519.1
2023	68.4	702.6	2,233.3	133.0	65.2	1,124.6	—	207.6	3,763.7	11.4	4,546.0	1,372.3	5,918.3

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[i] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[k] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. · Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2023, Wyoming

Year	Primary energy								Electricity [g]	Total energy [f]
			Petroleum				Biomass			
	Coal [a]	Natural gas [b]	Distillate fuel oil [c]	HGL [d]	Kerosene	Total	Wood [e]	Total [f]		
	Prices in dollars per million Btu									
1970	0.66	0.67	1.28	1.92	1.70	1.90	0.72	0.86	7.52	1.42
1975	0.99	1.09	2.84	4.20	3.17	4.12	1.43	1.75	7.58	2.73
1980	0.87	2.66	6.94	7.25	—	7.23	3.66	3.37	11.66	5.60
1985	2.29	4.92	10.07	7.51	8.54	7.89	4.14	5.16	16.60	8.13
1990	1.32	4.40	6.35	10.72	5.87	10.33	4.75	4.96	17.50	8.44
1995	1.39	4.54	3.28	7.59	6.10	7.03	3.86	4.79	17.86	8.65
2000	0.98	5.84	8.74	10.95	9.04	10.75	5.88	6.31	19.04	10.38
2005	1.91	10.10	15.73	17.06	15.09	16.96	9.20	11.10	21.91	14.80
2006	3.19	11.14	17.87	19.01	21.10	18.91	10.60	12.25	22.70	15.96
2007	2.40	8.53	19.57	22.03	23.13	21.91	11.71	11.53	22.72	15.28
2008	—	9.85	23.91	26.33	28.67	26.26	14.42	13.38	24.08	16.98
2009	—	9.10	15.52	21.71	23.93	21.51	10.83	12.02	25.14	16.55
2010	—	8.32	19.66	22.60	25.67	22.47	12.78	11.30	25.71	16.34
2011	—	8.43	25.38	26.46	26.36	26.43	15.36	12.36	26.69	17.34
2012	—	8.14	26.05	24.10	27.63	24.19	17.11	11.35	28.86	18.01
2013	—	7.93	25.41	23.83	27.31	23.93	16.76	10.94	29.77	17.56
2014	—	8.98	24.14	28.45	27.17	28.29	16.34	12.72	30.76	19.01
2015	—	8.80	14.41	20.87	16.65	20.46	11.26	10.72	32.14	18.40
2016	—	7.92	12.95	19.82	13.27	19.53	9.62	9.91	32.63	17.96
2017	—	8.50	17.42	23.43	16.60	23.24	10.76	11.57	33.33	18.88
2018	—	8.10	19.55	24.43	23.98	24.27	11.90	11.32	33.08	18.48
2019	—	7.50	18.83	21.13	22.39	21.06	11.46	10.24	32.75	17.48
2020	—	8.22	15.46	18.28	14.54	18.21	9.47	R 10.01	32.56	R 18.11
2021	—	9.51	18.47	24.48	22.97	24.26	11.37	R 12.48	32.74	R 19.77
2022	—	12.66	28.53	27.40	29.98	27.45	R 17.58	R 15.64	32.50	R 21.68
2023	—	12.99	26.12	25.25	26.02	25.28	16.07	15.72	33.59	21.93
	Expenditures in million dollars									
1970	0.2	12.3	0.1	6.1	0.4	6.5	0.1	19.0	15.5	34.5
1975	0.3	12.3	0.4	12.7	0.2	13.4	0.2	26.2	23.0	49.2
1980	0.3	27.5	0.9	14.7	—	15.7	0.6	44.1	56.1	100.2
1985	0.9	74.2	2.6	11.8	0.4	14.8	1.1	91.0	102.8	193.8
1990	0.7	55.5	0.9	16.5	(s)	17.4	2.0	75.7	102.7	178.3
1995	0.5	58.7	0.9	14.2	(s)	15.1	1.6	75.8	118.2	194.0
2000	0.3	74.4	1.3	17.5	0.1	18.9	2.6	96.2	136.6	232.7
2005	0.2	122.8	2.8	39.6	0.1	42.5	7.5	173.0	177.7	350.7
2006	0.3	135.4	3.9	39.8	0.2	43.9	7.7	187.2	191.2	378.4
2007	0.3	109.4	3.5	79.6	0.1	83.2	9.4	202.2	200.9	403.2
2008	—	135.1	2.3	94.4	(s)	96.7	13.0	244.7	223.3	468.0
2009	—	118.8	2.1	85.6	(s)	87.7	5.1	211.7	233.3	445.0
2010	—	110.8	2.9	75.5	(s)	78.3	6.5	195.7	239.2	434.8
2011	—	115.8	3.3	95.2	(s)	98.5	7.6	221.9	255.3	477.2
2012	—	96.8	3.4	63.9	(s)	67.3	7.1	171.2	267.5	438.7
2013	—	112.8	4.6	68.4	(s)	73.0	9.0	194.8	287.4	482.2
2014	—	123.9	2.9	87.2	(s)	90.2	8.9	223.0	288.9	511.9
2015	—	108.0	2.1	45.4	(s)	47.5	19.8	175.3	293.5	468.8
2016	—	102.1	1.5	51.5	(s)	53.0	14.6	169.7	306.3	476.0
2017	—	113.1	2.0	82.1	(s)	84.2	19.0	216.3	315.3	531.6
2018	—	113.0	2.2	80.0	(s)	82.3	R 21.2	R 216.5	310.2	R 526.7
2019	—	113.3	2.0	74.2	(s)	76.3	20.6	R 210.2	318.4	R 528.6
2020	—	114.6	1.1	54.7	(s)	55.8	R 5.1	R 175.6	319.9	R 495.5
2021	—	129.0	2.4	82.1	(s)	84.4	R 6.3	R 219.7	323.7	R 543.4
2022	—	180.0	3.7	91.3	(s)	95.1	R 12.3	R 287.4	333.6	R 621.0
2023	—	185.3	3.7	99.1	(s)	102.7	9.5	297.5	337.9	635.4

[a] Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[d] Hydrocarbon gas liquids, assumed to be propane only.
[e] Wood and wood-derived fuels.
[f] There are no direct fuel costs for geothermal or solar energy.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2023, Wyoming

Year	Primary energy										Electricity [j]	Total energy [g,h,i]
			Petroleum						Biomass			
	Coal	Natural gas [a]	Distillate fuel oil [b]	HGL [c]	Kerosene	Motor gasoline [d]	Residual fuel oil	Total [e]	Wood and waste [f,g]	Total [g,h,i]		
	Prices in dollars per million Btu											
1970	0.42	0.43	1.06	1.20	0.86	2.93	0.55	1.29	0.72	0.58	5.28	1.11
1975	0.90	0.72	2.49	2.40	2.42	4.77	2.03	2.66	1.43	1.15	5.48	1.88
1980	1.72	2.50	6.47	4.85	5.76	10.28	3.59	6.48	3.66	3.92	11.21	5.83
1985	1.94	4.83	5.93	8.10	8.54	8.87	3.14	6.30	4.14	4.93	15.38	8.56
1990	1.12	4.07	5.70	6.16	5.87	8.66	2.46	6.32	4.75	4.01	15.64	8.26
1995	1.04	3.98	4.75	7.87	6.10	8.76	2.29	5.87	3.86	3.83	15.26	7.87
2000	1.23	5.04	7.19	11.75	9.04	11.91	2.99	8.28	5.88	5.08	15.41	9.09
2005	1.31	8.81	14.05	16.92	15.09	17.97	—	16.94	9.20	10.18	18.10	13.92
2006	1.37	9.89	16.54	19.69	21.10	20.32	—	19.51	10.60	11.58	18.40	14.99
2007	1.50	7.61	17.93	22.14	23.13	22.54	—	21.79	11.71	10.73	18.31	14.52
2008	1.93	8.60	23.95	25.31	28.67	25.98	—	25.38	14.42	12.71	19.66	16.19
2009	2.20	7.77	14.15	19.81	23.93	18.13	—	17.94	10.83	10.22	21.34	15.66
2010	2.27	6.91	17.99	20.02	25.67	22.09	—	20.05	12.78	10.23	21.73	15.68
2011	2.36	7.05	23.92	25.11	26.36	27.21	—	25.68	15.36	13.41	22.61	17.39
2012	2.52	6.50	24.55	18.63	27.63	27.90	15.41	23.90	17.11	12.45	24.15	17.77
2013	3.11	6.53	24.08	19.72	27.31	27.35	—	23.93	16.76	11.64	25.12	17.40
2014	2.87	7.39	22.74	21.11	27.17	26.68	—	23.21	16.34	12.04	26.03	17.93
2015	2.71	7.01	13.39	10.94	16.65	19.51	—	15.27	11.26	9.26	26.73	16.40
2016	2.72	6.09	11.28	10.82	13.27	17.40	—	13.68	9.62	7.94	27.55	R 15.72
2017	2.74	6.53	13.82	14.32	16.60	19.66	—	14.83	10.76	R 7.92	28.42	R 16.33
2018	2.85	6.22	17.39	15.72	23.98	22.56	—	17.77	11.90	7.87	28.06	R 16.41
2019	2.94	5.86	15.84	12.03	22.39	21.53	—	14.53	11.46	R 7.58	28.26	16.00
2020	3.17	6.12	10.74	11.23	14.54	18.48	—	12.14	9.47	R 7.32	28.29	R 15.82
2021	3.20	7.24	18.16	18.26	22.97	25.86	—	19.41	11.37	R 9.54	28.36	R 17.42
2022	3.15	10.46	28.36	19.37	29.98	32.24	—	27.52	R 17.58	R 14.74	27.98	R 19.98
2023	2.91	10.63	22.45	15.10	26.02	29.26	—	20.47	16.07	12.63	26.19	19.22
	Expenditures in million dollars											
1970	0.1	6.1	0.2	1.6	0.7	1.3	0.2	4.0	(s)	10.2	11.8	22.0
1975	0.6	6.9	0.9	3.1	0.6	1.8	1.1	7.5	(s)	15.0	14.5	29.5
1980	2.5	13.2	16.1	4.3	0.8	5.5	0.6	27.3	(s)	43.1	43.5	86.6
1985	2.8	46.4	13.6	5.5	0.3	3.1	1.4	23.9	(s)	73.1	121.8	195.0
1990	2.3	37.7	7.2	4.1	(s)	3.4	(s)	14.8	0.2	55.0	123.8	178.9
1995	2.4	41.6	7.3	6.4	0.1	0.3	(s)	14.1	0.2	58.3	127.1	185.4
2000	3.0	51.4	16.8	8.1	(s)	0.5	(s)	25.4	0.4	80.3	154.8	235.1
2005	1.5	84.4	7.8	22.0	(s)	28.5	—	58.4	1.2	145.5	231.8	377.2
2006	1.1	97.8	8.9	16.8	0.1	36.6	—	62.4	1.3	162.7	258.4	421.1
2007	1.4	74.5	9.0	18.4	0.1	49.7	—	77.1	1.5	154.6	263.3	417.9
2008	1.1	90.3	15.6	37.6	(s)	44.6	—	97.9	2.0	191.2	295.9	487.1
2009	1.2	83.1	12.3	31.3	0.1	27.1	—	70.7	0.7	155.7	312.2	467.9
2010	1.2	79.5	25.5	28.6	0.1	31.7	—	86.0	0.8	167.5	320.1	487.6
2011	1.3	85.1	52.4	36.6	(s)	83.9	—	173.0	1.0	260.4	335.8	596.3
2012	1.2	70.4	60.0	31.6	(s)	51.8	0.1	143.5	1.0	216.1	349.8	565.9
2013	1.5	81.8	R 47.3	32.2	(s)	52.4	—	131.9	1.1	216.3	348.5	R 564.9
2014	1.2	93.7	R 41.8	46.3	(s)	41.9	—	R 130.0	1.1	226.0	355.3	581.3
2015	0.5	96.1	20.7	16.2	0.1	43.1	—	R 80.2	R 2.7	R 179.4	358.0	R 537.4
2016	0.4	87.8	18.8	12.1	(s)	33.7	—	R 64.6	R 2.3	R 155.1	353.7	R 508.7
2017	0.8	96.7	R 21.4	15.8	(s)	8.6	—	45.8	R 3.0	R 146.3	364.8	R 511.1
2018	0.5	91.1	17.5	14.8	(s)	10.9	—	43.2	R 2.8	R 137.6	359.8	R 497.4
2019	0.4	81.9	16.5	22.8	(s)	10.4	—	49.7	R 2.6	R 134.6	344.7	R 479.3
2020	0.1	80.7	11.1	19.7	(s)	8.9	—	39.8	R 1.0	R 121.7	320.5	R 442.2
2021	0.4	94.0	R 29.4	18.0	(s)	12.6	—	60.0	R 1.2	R 155.7	333.2	R 488.9
2022	0.6	143.7	R 46.6	24.2	(s)	60.1	—	R 130.9	R 1.9	R 277.0	344.8	R 621.8
2023	(s)	153.3	39.2	21.5	0.1	13.8	—	74.6	1.7	229.7	450.9	680.6

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2013, includes biodiesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[e] Includes small amounts of petroleum coke not shown separately.
[f] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[g] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[h] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[i] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[j] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: Expenditure totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2023, Wyoming

	Primary energy													
	Coal				Petroleum						Biomass			
	Coking coal	Steam coal	Total	Natural gas [a]	Distillate fuel oil	HGL [b]	Motor gasoline [c]	Residual fuel oil	Other [d]	Total	Wood and waste [e,f]	Total [f,g,h]	Electricity [i]	Total energy [f,g,h]
Year	Prices in dollars per million Btu													
1970	—	0.42	0.42	0.24	0.80	1.26	2.93	0.55	0.68	1.00	1.49	0.55	3.23	0.76
1975	—	0.90	0.90	0.55	2.30	2.61	4.77	1.65	2.03	2.36	1.49	1.46	3.44	1.67
1980	—	1.72	1.72	2.32	5.44	5.28	10.28	3.55	4.15	5.17	1.49	3.68	5.12	3.85
1985	—	1.94	1.94	3.38	6.33	9.09	8.87	3.14	5.07	6.39	1.49	4.00	10.15	5.19
1990	—	1.12	1.12	2.94	6.19	6.86	8.66	2.46	3.67	5.77	1.06	2.86	10.18	4.46
1995	—	1.04	1.04	2.99	5.43	7.58	8.76	2.29	4.55	5.99	1.62	2.85	10.26	4.07
2000	—	1.23	1.23	3.89	7.03	12.61	11.91	2.99	3.99	6.63	1.22	3.78	9.83	4.87
2005	—	1.31	1.31	7.92	14.67	19.53	17.97	5.28	7.79	13.92	1.66	7.39	11.69	8.29
2006	—	1.37	1.37	8.55	17.38	22.59	20.32	4.97	12.80	17.38	1.73	9.12	11.85	9.67
2007	—	1.50	1.50	6.38	18.96	25.28	22.54	8.63	10.85	18.44	1.73	8.52	12.03	9.26
2008	—	1.57	1.57	7.32	24.92	30.22	25.98	12.36	9.64	22.89	1.73	11.03	13.11	11.48
2009	—	1.59	1.59	5.61	14.52	26.60	18.13	7.36	16.13	15.05	1.73	7.99	14.17	9.44
2010	—	1.67	1.67	4.76	18.58	23.28	22.09	8.94	R 19.21	R 18.86	1.73	R 9.07	14.59	R 10.35
2011	—	1.81	1.81	5.39	25.07	27.33	27.21	—	R 20.40	R 24.06	2.41	R 11.68	15.85	R 12.60
2012	—	1.90	1.90	4.71	25.18	19.60	27.90	—	R 20.48	R 24.10	2.41	R 11.19	17.67	R 12.56
2013	—	2.14	2.14	4.43	24.72	20.90	27.35	—	R 20.92	R 23.88	2.41	R 10.57	18.82	R 12.46
2014	—	2.32	2.32	5.66	23.53	22.56	26.68	—	R 21.31	R 23.12	2.97	R 11.33	19.37	R 13.12
2015	—	2.23	2.23	4.78	14.62	10.42	19.51	—	R 19.35	R 15.81	2.97	R 7.83	19.80	R 10.64
2016	—	2.14	2.14	3.69	11.76	10.28	17.40	—	R 15.76	R 12.87	2.97	R 5.76	20.29	R 9.07
2017	—	2.28	2.28	4.04	14.51	13.78	19.66	—	15.61	14.93	2.96	6.70	20.27	9.77
2018	—	2.35	2.35	3.69	18.16	15.17	22.56	—	18.37	18.26	2.91	7.56	19.66	10.03
2019	—	2.42	2.42	3.64	16.28	11.47	21.53	—	R 20.22	R 17.19	2.91	6.76	19.71	9.58
2020	—	2.44	2.44	3.87	11.45	10.66	18.48	—	R 17.45	R 13.13	2.91	R 5.81	20.16	8.90
2021	—	2.54	2.54	5.45	18.38	17.65	25.86	—	R 17.89	R 18.52	2.91	R 8.89	20.01	R 11.40
2022	—	2.81	2.81	8.13	28.83	18.72	32.24	—	R 26.78	R 28.16	R 2.94	R 12.78	20.19	R 14.39
2023	—	2.88	2.88	6.18	23.46	14.43	29.26	—	25.65	23.84	2.94	10.46	20.68	12.48
	Expenditures in million dollars													
1970	—	1.7	1.7	9.5	8.9	2.1	8.5	0.9	6.3	26.7	0.4	38.3	19.6	57.8
1975	—	10.6	10.6	16.7	47.3	4.0	14.8	11.1	12.4	89.7	0.3	117.3	32.5	149.8
1980	—	49.6	49.6	50.0	198.0	22.0	19.7	23.4	39.2	302.4	0.9	402.9	76.5	479.4
1985	—	63.9	63.9	55.3	90.7	34.6	24.7	(s)	62.4	212.4	1.0	332.6	202.7	535.3
1990	—	46.3	46.3	69.3	82.7	14.4	19.0	(s)	24.6	140.7	0.7	257.0	256.1	513.0
1995	—	44.0	44.0	141.6	59.9	32.8	20.2	(s)	22.2	135.1	0.3	321.0	227.7	548.8
2000	—	47.4	47.4	142.7	137.9	26.0	14.9	(s)	40.5	219.4	0.1	409.5	234.2	643.7
2005	—	41.4	41.4	317.7	267.4	17.8	45.9	2.8	31.3	365.2	0.2	724.4	303.9	1,028.3
2006	—	45.6	45.6	337.3	477.7	33.8	54.0	2.5	25.6	593.6	0.1	976.7	321.1	1,297.7
2007	—	51.6	51.6	247.8	505.5	26.1	36.6	3.3	34.3	605.6	0.1	905.1	341.3	1,246.4
2008	—	54.4	54.4	269.3	779.6	23.3	37.4	6.3	49.7	896.2	0.1	1,220.1	406.6	1,626.6
2009	—	48.5	48.5	179.7	413.5	7.2	25.7	0.9	131.3	578.6	0.1	806.9	437.3	1,244.2
2010	—	51.9	51.9	178.0	538.6	10.0	24.7	0.6	R 180.1	R 754.0	0.2	R 984.0	475.7	R 1,459.7
2011	—	58.9	58.9	209.6	842.6	14.3	27.8	—	R 216.6	R 1,101.3	0.1	R 1,370.0	526.9	R 1,896.8
2012	—	59.0	59.0	210.2	827.6	7.9	29.7	—	R 213.9	R 1,079.2	0.1	R 1,348.5	572.6	R 1,921.1
2013	—	67.1	67.1	179.0	696.7	10.5	29.4	—	R 184.5	R 921.1	0.1	R 1,167.4	618.8	R 1,786.2
2014	—	74.2	74.2	232.3	802.4	11.6	18.3	—	R 189.2	R 1,021.5	0.1	R 1,328.2	650.5	R 1,978.7
2015	—	65.5	65.5	204.2	392.5	4.5	23.4	—	R 164.2	R 584.6	0.1	R 854.4	660.2	R 1,514.7
2016	—	68.5	68.5	175.1	257.3	3.3	20.6	—	R 107.7	R 388.9	0.1	R 632.7	656.8	R 1,289.5
2017	—	72.0	72.0	196.6	350.8	1.8	23.3	—	112.5	488.5	0.1	757.2	667.2	1,424.4
2018	—	73.7	73.7	225.7	521.6	14.4	27.2	—	118.4	681.6	0.1	981.1	655.3	1,636.4
2019	—	74.5	74.5	211.0	369.0	5.0	26.6	—	R 118.1	R 518.7	0.1	R 804.3	652.6	R 1,456.9
2020	—	58.4	58.4	218.2	207.1	7.1	22.5	—	R 103.6	R 340.3	0.1	R 617.0	589.7	R 1,206.6
2021	—	66.6	66.6	249.7	452.6	20.2	30.9	—	R 119.1	R 622.9	0.1	R 939.3	614.4	R 1,553.7
2022	—	76.7	76.7	442.7	717.8	25.7	42.2	—	R 177.3	R 963.1	0.1	R 1,482.6	647.8	R 2,130.4
2023	—	68.3	68.3	363.7	570.2	12.3	34.9	—	153.5	771.0	0.1	1,203.2	583.5	1,786.6

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption technical notes, Section 4.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
[e] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
[g] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
[h] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[i] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET6. Transportation sector energy price and expenditure estimates, selected years, 1970-2023, Wyoming

Year	Primary energy											Electricity [g]	Total energy [f]
			Petroleum										
	Coal	Natural gas[a]	Aviation gasoline	Distillate fuel oil [b]	HGL [c]	Jet fuel [d]	Lubricants	Motor gasoline [e]	Residual fuel oil	Total	Total [f]		
	Prices in dollars per million Btu												
1970	0.42	—	2.17	1.31	1.20	0.76	5.08	2.93	0.54	2.19	2.19	—	2.19
1975	0.90	—	3.45	2.70	2.40	2.12	7.48	4.77	—	3.95	3.95	—	3.95
1980	—	—	9.02	7.39	4.85	6.59	14.36	10.28	—	8.94	8.94	—	8.94
1985	—	—	9.99	7.05	8.30	6.53	18.18	8.87	4.01	8.27	8.27	—	8.27
1990	—	—	9.32	8.38	6.51	6.45	20.61	8.66	—	8.64	8.64	—	8.64
1995	—	5.02	8.36	7.76	8.97	5.33	21.75	8.76	—	8.32	8.32	—	8.32
2000	—	4.94	10.87	10.73	12.77	7.21	23.20	11.91	—	11.29	11.29	—	11.29
2005	—	9.09	18.56	17.51	18.26	12.99	35.22	17.97	—	17.78	17.78	—	17.78
2006	—	10.38	22.31	19.93	19.99	15.07	43.88	20.32	—	20.19	20.19	—	20.19
2007	—	5.59	23.70	21.37	22.41	16.42	47.16	22.54	—	21.91	21.90	—	21.90
2008	—	6.31	27.23	27.53	26.91	23.85	55.12	25.98	—	27.08	27.08	—	27.08
2009	—	5.61	20.32	17.25	20.97	13.31	56.07	18.13	—	17.81	17.81	—	17.81
2010	—	9.78	25.19	21.35	25.83	16.87	58.80	22.09	—	21.89	21.89	—	21.89
2011	—	11.57	31.64	27.31	28.78	23.24	69.54	27.21	—	27.53	27.53	—	27.53
2012	—	13.68	33.04	28.13	21.69	23.60	72.11	27.90	—	28.29	28.29	—	28.29
2013	—	R 14.08	32.71	27.40	23.44	22.72	69.42	27.35	—	27.62	27.62	—	27.62
2014	—	R 15.00	33.16	27.20	25.50	21.11	69.44	26.68	—	27.25	27.24	—	27.24
2015	—	R 15.23	24.86	18.91	14.38	12.52	67.28	19.51	—	19.46	19.46	—	19.46
2016	—	R 15.34	21.62	16.35	14.25	10.43	65.78	17.40	—	17.10	17.10	—	17.10
2017	—	R 15.31	24.13	19.19	18.78	12.47	67.25	19.66	—	19.62	19.62	—	19.62
2018	—	R 14.65	27.04	22.79	19.70	16.10	72.37	22.56	—	22.94	22.94	—	22.94
2019	—	R 13.82	25.57	21.53	15.51	15.39	74.92	21.53	—	21.78	21.78	—	21.78
2020	—	R 13.69	22.34	17.82	14.24	10.84	75.34	18.48	—	18.33	18.33	—	18.33
2021	—	R 14.38	28.86	24.03	23.39	15.39	81.25	25.86	—	24.92	24.91	—	24.91
2022	—	R 15.96	36.02	35.15	23.86	26.82	97.37	32.24	—	34.30	R 34.30	—	R 34.30
2023	—	17.64	32.62	30.81	18.47	21.59	105.48	29.26	—	30.28	30.28	—	30.28
	Expenditures in million dollars												
1970	(s)	—	2.8	23.4	0.4	0.5	2.6	81.0	1.6	112.3	112.4	—	112.4
1975	(s)	—	3.8	62.4	1.1	1.5	4.9	167.8	—	241.4	241.4	—	241.4
1980	—	—	4.9	276.4	1.4	6.0	13.1	433.7	—	735.4	735.4	—	735.4
1985	—	—	2.6	171.4	1.4	5.6	15.1	329.4	(s)	525.5	525.6	—	525.6
1990	—	—	1.7	325.5	0.7	5.1	19.3	300.9	—	653.1	653.8	—	653.8
1995	—	(s)	7.6	360.6	0.6	4.7	19.4	341.1	—	734.0	734.0	—	734.0
2000	—	(s)	15.2	545.4	0.5	11.7	22.1	467.8	—	1,062.7	1,062.7	—	1,062.7
2005	—	0.3	23.2	1,097.8	0.5	15.0	28.3	689.3	—	1,854.2	1,854.4	—	1,854.4
2006	—	0.3	28.2	1,304.7	0.5	24.9	34.4	786.7	—	2,179.3	2,179.6	—	2,179.6
2007	—	0.1	22.8	1,423.9	0.6	35.2	38.1	901.4	—	2,422.0	2,422.1	—	2,422.1
2008	—	0.1	33.8	1,734.9	3.8	53.1	41.4	1,007.1	—	2,874.1	2,874.3	—	2,874.3
2009	—	0.1	23.7	R 950.0	0.5	32.5	37.9	734.5	—	R 1,779.1	R 1,779.2	—	R 1,779.2
2010	—	0.2	3.8	R 1,197.7	0.4	34.7	51.1	899.7	—	R 2,187.3	R 2,187.5	—	R 2,187.5
2011	—	0.2	4.4	R 1,429.7	0.5	48.0	53.3	1,042.6	—	R 2,578.4	R 2,578.7	—	R 2,578.7
2012	—	0.3	4.0	R 1,583.8	0.3	46.3	56.1	1,152.3	—	R 2,842.8	R 2,843.0	—	R 2,843.0
2013	—	0.3	3.5	R 1,475.0	0.4	44.8	53.5	1,117.2	—	R 2,694.4	R 2,694.7	—	R 2,694.7
2014	—	0.4	5.1	R 1,606.0	0.4	35.1	57.1	1,069.2	—	R 2,772.9	R 2,773.3	—	R 2,773.3
2015	—	R 0.3	2.5	R 1,025.2	0.3	22.8	57.1	795.7	—	R 1,903.6	R 1,903.9	—	R 1,903.9
2016	—	0.4	2.1	R 900.5	0.2	16.8	53.0	723.0	—	R 1,695.6	R 1,696.1	—	R 1,696.1
2017	—	R 0.3	2.1	R 1,049.2	0.4	22.8	48.6	802.3	—	R 1,925.5	R 1,925.7	—	R 1,925.7
2018	—	R 0.2	2.7	R 1,341.3	0.2	R 28.0	51.4	866.1	—	R 2,289.7	R 2,289.9	—	R 2,289.9
2019	—	R 0.3	2.8	R 1,316.4	0.4	R 30.6	R 52.6	817.8	—	R 2,220.6	R 2,220.9	—	R 2,220.9
2020	—	R 0.2	2.4	R 978.5	0.2	R 18.9	R 46.9	654.3	—	R 1,701.1	R 1,701.3	—	R 1,701.3
2021	—	R 0.2	3.1	R 1,302.3	0.1	R 38.4	51.8	974.1	—	2,369.8	R 2,370.0	—	R 2,370.0
2022	—	R 0.3	4.0	R 1,893.9	0.5	R 54.8	R 64.5	1,128.1	—	R 3,145.7	R 3,146.0	—	R 3,146.0
2023	—	0.2	3.4	1,620.2	0.2	65.2	50.6	1,075.8	—	2,815.4	2,815.6	—	2,815.6

[a] Transportation use of natural gas as vehicle fuel only.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in expenditures time series between 2009 and 2010 because of consumption data source and methodology changes, see technical notes.
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[g] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.

Note: Expenditure totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table ET7. Electric power sector price and expenditure estimates, selected years, 1970-2023, Wyoming

Year	Coal	Natural gas [a]	Petroleum: Distillate fuel oil	Petroleum: Petroleum coke	Petroleum: Residual fuel oil	Petroleum: Total	Nuclear fuel	Biomass: Wood and waste [b]	Electricity imports [c]	Total energy [d]
	Prices in dollars per million Btu									
1970	0.14	0.22	0.76	—	0.58	0.67	—	—	—	0.14
1975	0.25	0.94	2.44	—	1.99	2.01	—	—	—	0.26
1980	0.57	4.61	6.98	—	—	6.98	—	—	—	0.59
1985	0.92	4.33	6.00	—	—	6.00	—	—	—	0.93
1990	0.84	3.15	5.27	—	—	5.27	—	—	—	0.84
1995	0.82	7.98	4.45	—	—	4.45	—	—	—	0.83
2000	0.78	3.76	7.24	—	—	7.24	—	—	—	0.80
2005	0.95	6.26	13.17	—	—	13.17	—	—	16.53	0.97
2006	1.01	6.83	16.28	—	—	16.28	—	—	17.32	1.04
2007	1.06	6.82	17.72	—	—	17.72	—	—	18.25	1.11
2008	1.15	7.44	22.63	—	—	22.63	—	—	18.28	1.19
2009	1.16	4.90	14.07	—	—	14.07	—	—	12.10	1.19
2010	1.29	5.67	17.36	—	—	17.36	—	—	13.31	1.32
2011	1.50	6.91	23.87	—	—	23.87	—	—	11.53	1.53
2012	1.45	5.86	23.86	—	—	23.86	—	—	9.51	1.47
2013	1.52	6.93	23.33	—	—	23.33	—	—	11.49	1.55
2014	1.58	6.96	22.43	—	—	22.43	—	—	13.31	1.61
2015	1.63	4.72	14.38	—	—	14.38	—	—	10.54	1.65
2016	1.68	9.06	11.49	—	—	11.49	—	—	8.74	1.71
2017	1.66	3.89	14.48	—	—	14.48	—	—	9.18	1.68
2018	1.68	3.77	18.53	—	—	18.53	—	—	10.74	1.70
2019	1.63	3.07	16.08	—	—	16.08	—	—	—	1.66
2020	1.70	2.28	12.17	—	—	12.17	—	—	—	1.72
2021	1.69	5.84	18.27	—	—	18.27	—	—	—	1.82
2022	1.64	8.11	28.11	—	—	28.11	—	—	—	1.86
2023	1.88	6.91	24.40	—	—	24.40	—	—	—	2.11
	Expenditures in million dollars									
1970	8.3	0.5	0.1	—	(s)	0.1	—	—	—	8.9
1975	28.4	0.4	0.1	—	1.4	1.5	—	—	—	30.3
1980	134.9	0.9	5.0	—	—	5.0	—	—	—	140.7
1985	340.7	0.6	5.0	—	—	5.0	—	—	—	346.3
1990	347.8	0.2	3.0	—	—	3.0	—	—	—	351.0
1995	342.2	1.1	3.3	—	—	3.3	—	—	—	346.6
2000	362.3	7.1	2.8	—	—	2.8	—	—	—	372.2
2005	434.2	3.3	5.9	—	—	5.9	—	—	2.7	446.1
2006	459.4	5.6	8.3	—	—	8.3	—	—	1.6	474.9
2007	489.2	13.5	8.6	—	—	8.6	—	—	2.0	513.3
2008	533.3	7.9	10.4	—	—	10.4	—	—	1.4	553.0
2009	513.8	5.2	7.4	—	—	7.4	—	—	0.4	526.8
2010	583.1	3.3	10.4	—	—	10.4	—	—	0.3	597.2
2011	650.0	2.8	13.5	—	—	13.5	—	—	0.4	666.7
2012	663.9	2.8	10.8	—	—	10.8	—	—	(s)	677.6
2013	744.4	3.6	9.5	—	—	9.5	—	—	0.1	757.7
2014	722.4	5.8	8.7	—	—	8.7	—	—	0.5	737.5
2015	745.8	6.1	6.2	—	—	6.2	—	—	0.1	758.1
2016	712.4	14.4	4.9	—	—	4.9	—	—	(s)	731.8
2017	710.1	5.3	6.2	—	—	6.2	—	—	(s)	721.7
2018	712.9	7.4	6.9	—	—	6.9	—	—	0.1	727.3
2019	617.4	10.6	6.8	—	—	6.8	—	—	—	634.8
2020	618.4	13.6	5.6	—	—	5.6	—	—	—	637.6
2021	593.4	48.8	11.3	—	—	11.3	—	—	—	653.5
2022	594.0	86.2	14.2	—	—	14.2	—	—	—	694.5
2023	642.3	103.7	10.6	—	—	10.6	—	—	—	756.5

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel. Prior to 2001, includes non-biomass waste.
[c] Electricity imported from Canada and Mexico.
[d] There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Notes: · Expenditure totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers.
Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

State Energy Data System 2023
Price and Expenditure Technical Notes

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Introduction to the technical notes

Purpose

The U.S. Energy Information Administration (EIA) develops, maintains, and operates the State Energy Data System (SEDS). The goal of SEDS is to provide historical time series of energy production, consumption, prices, expenditures, indicators, and carbon dioxide emissions from energy consumption by state that are defined as consistently as possible over time and across sectors. SEDS provides these estimates for Members of Congress, federal and state agencies, the general public, and as inputs for EIA's energy models.

The report

SEDS provides annual energy price and expenditure estimates for all energy sources by major economic sectors for the 50 states, District of Columbia, and United States. These data are available on the EIA website at https://www.eia.gov/state/seds/seds-data-complete.php. Companion tables with state-level consumption data can also be found at the same website. In addition, SEDS publishes the most recent year of data tables for state-level production, consumption, price, expenditure, indicator, and carbon dioxide emissions from energy consumption estimates by energy source as they are updated at https://www.eia.gov/state/seds/seds-data-fuel.php?sid=US.

Due to page-size constraints, most of the PDF time series tables show estimates for only selected years. However, SEDS estimates price and expenditure data for 1970 forward and publishes the data in the HTML tables and CSV, XLSX, and ZIP data files on EIA's website. The documentation in this report covers the estimates for all years.

In the published SEDS tables, all estimates with revisions since the last SEDS report that are large enough to be seen are preceded with an "R."

Price estimates

All SEDS price estimates are in current dollars per million Btu (British thermal units) to facilitate comparison across energy sources. EIA uses gross heat content values to convert prices in physical units to prices in million Btu. See Appendix B of the SEDS consumption technical notes at https://www.eia.gov/state/seds/sep_use/notes/use_b.pdf. There is no adjustment for general inflation over time.

Sections 2 through 6 of the technical notes describe how SEDS develops the price estimates, including sources, methods, and conversion factors.

Reliable data for state-level prices rarely exist, especially as consistent series over a long period. SEDS applies estimates and assumptions to fill data gaps and maintain consistent definitions in the data series over time. SEDS incorporates the most consistent series and procedures possible for these estimates and assumptions. However, users should recognize the limitations imposed on the system due to changing and inadequate data sources. SEDS selects its sources and methods based on the availability, applicability as indicators, continuity over time, and consistency among the various energy commodities. The original source documents (cited in this documentation) include the collection of methods, imputation, or adjustment techniques, and errors associated with the individual processes. Due to the many collection forms and procedures associated with these reports, it is not possible to develop a meaningful numerical estimate of the statistical errors of the material published in the SEDS price and expenditure tables.

It is also important to note that, even within a state, a single average price may have limited meaning because it represents a consumption-weighted average over a whole state. For example, urban and rural electricity prices can vary significantly, and prices in one region of a state may differ from those in another because of access to less expensive hydroelectricity. Differences within a state may also be greater than differences among adjacent states. Thus, the principal value of the estimates in these tables lies in general comparisons among the states, interstate comparisons for a given year, and the analysis of trends over time.

Estimation methods

Most sources report fuel prices in physical units. SEDS uses the appropriate EIA conversion factors to create the Btu prices. SEDS only uses estimated prices when specific state-level prices are not available for a given energy source and sector. In some cases, SEDS assigns prices for energy consumed in one sector in a state to another sector in the same state. Examples include: industrial steam coal prices assigned to the commercial and transportation sectors' steam coal use;

industrial lubricants prices assigned to transportation lubricants uses; and transportation motor gasoline prices assigned to commercial and industrial use of motor gasoline.

In addition, there are a few cases where state-level prices could not be identified for any economic sector for a given energy source for some or all years. In these instances, SEDS uses a national-level price for all states, as described in these technical notes. For example, SEDS assigns a national-level price to all states for: transportation use of aviation gasoline; industrial and transportation use of lubricants; and industrial use of some other petroleum products.

Finally, within a given energy source and sector where price data are usually available, there are some cases of missing prices for certain years. SEDS uses two general approaches to estimate prices in cases where consumption occurs but no price is directly available from the data sources. The first approach is to assign an adjacent state price, a simple average of adjacent states' prices, or the price of the region (such as Census division, Census region, or Petroleum Administration for Defense district or subdistrict) that the state is located. The second approach is to apply the growth rate of the price of another state, the corresponding region, or the United States to the state's previous year price, if it is available.

SEDS uses three state groupings—U.S. Census regions and divisions, federal regions, and Petroleum Administration for Defense districts—as shown in Figures TN1, TN2, and TN3, on the following pages. SEDS identifies states by their two-letter postal code abbreviations shown in the map legends. Throughout the technical notes, the term "state" includes the District of Columbia.

Expenditure estimates

All SEDS expenditure estimates are in millions of current dollars. There is no adjustment for general inflation over time. All expenditures are consumer expenditures; that is, they represent estimates of money spent directly by consumers to purchase energy, generally including taxes (see box on page 4).

SEDS calculates expenditure estimates as the product of SEDS Btu consumption estimates at the most detailed level and the corresponding price estimates. SEDS adjusts the Btu consumption estimates for the expenditure calculations to remove process fuels and intermediate products (such as refinery fuels and biofuels blended into petroleum products) that are not purchased directly by end users to avoid double counting.

SEDS excludes electricity exported to Canada and Mexico from the expenditure calculations. SEDS removes use of hydroelectric, geothermal, wind, and solar energy sources from SEDS expenditure calculations because there are no direct fuel costs for those energy sources. SEDS also removes consumption of wood and waste that were obtained at no cost.

See Section 7 of the technical notes for further explanation of the adjusted consumption for expenditure estimates at: https://www.eia.gov/state/seds/sep_prices/notes/pr_consum_adjust.pdf.

In the SEDS tables with primary energy, electricity, and total energy expenditure estimates, SEDS displays energy expenditures for the electric power sector as negative values to indicate that they are subtracted from primary energy expenditures to remove double-counting in the calculation of total energy expenditures.

Energy-consuming sectors

SEDS estimates price and expenditure estimates for five energy-consuming sectors:

- **Residential sector:** An energy-consuming sector that consists of living quarters for private households. Common uses of energy associated with this sector include: space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a variety of other appliances. The residential sector excludes institutional living quarters.
- **Commercial sector:** An energy-consuming sector that consists of service-providing facilities and equipment of: businesses; federal, state, and local governments; and other private and public organizations, such as religious, social, or fraternal groups. The commercial sector includes institutional living quarters. It also includes sewage treatment facilities. Common uses of energy associated with this sector include: space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a wide variety of other equipment. *Note*: This sector includes generators that produce electricity and/or useful thermal output primarily to support commercial activities.
- **Industrial sector:** An energy-consuming sector that consists of all facilities and equipment used for producing, processing,

or assembling goods. The industrial sector encompasses the following types of activity: manufacturing (NAICS codes 31-33); agriculture, forestry, fishing and hunting (NAICS code 11); mining, including oil and gas extraction (NAICS code 21); and construction (NAICS code 23). Overall energy use in this sector is largely for process heat and cooling and powering machinery, with lesser amounts used for facility heating, air conditioning, and lighting. Fossil fuels are also used as raw material inputs to manufactured products. *Note:* This sector includes generators that produce electricity and/or useful thermal output primarily to support industrial activities.

- **Transportation sector:** An energy-consuming sector that consists of all vehicles whose primary purpose is transporting people and/or goods from one physical location to another. Included are automobiles; trucks; buses; motorcycles; trains, subways, and other rail vehicles; aircraft; and ships, barges, and other waterborne vehicles. Vehicles whose primary purpose is not transportation (e.g., construction cranes and bulldozers, farming vehicles, and warehouse tractors and forklifts) are classified in the sector of their primary use. In this report, natural gas used in the operation of natural gas pipelines is included in the transportation sector.
- **Electric power sector:** An energy-consuming sector that consists of electricity-only and combined-heat-and-power plants within the NAICS (North American Industry Classification System) 22 category whose primary business is to sell electricity, or electricity and heat, to the public. *Note:* This sector includes electric utilities and independent power producers.

The first four energy-consuming sectors—residential, commercial, industrial, and transportation sectors—are also called end-use sectors.

Sector definition discrepancies and other price issues

Although end-use allocations of energy consumption and expenditures follow those guidelines as closely as possible, some data sources collect information using different classifications. For example, electric utilities often classify commercial and industrial users by the quantity of electricity purchases rather than by the business activity of the purchaser. Agricultural use of natural gas is collected and reported in the commercial sector through 1995 and in the industrial sector for 1996 forward. Because agricultural use of natural gas cannot be identified separately, the discrepancy cannot be reconciled. Another example is master-metered condominiums, apartments, and buildings with a combination of residential and commercial units. In many cases, billing and metering practices cause residential energy usage of electricity, natural gas, or fuel oil to be included in the commercial sector. In those cases, there is no basis for separating residential from commercial use. Readers are advised to consult the SEDS consumption technical notes for specific assumptions regarding the consumption estimates.

Except where specified, it is generally not possible to describe the SEDS price estimates as entirely “wholesale” or “retail.” The prices paid in each consuming sector are usually a combination of both sets of prices, depending on a number of closely interrelated factors. Almost all residential sector prices are close to retail prices, reflecting the relatively small quantities of individual purchases and the increased costs of extensive, multilayered distribution systems. Similarly, in the transportation sector more consumers pay the same retail-like price for motor gasoline, regardless of volume purchased or location of purchase. Conversely, residual fuel oil prices in the transportation sector are certainly more wholesale-like as a result of large deliveries to bulk facilities in major ports. In the same manner, most large industrial and many large commercial expenditures can be thought of as near wholesale, frequently involving direct access to a producer or bulk distribution facility for very large quantities. Many smaller industrial and commercial facilities pay something much closer to retail prices as a result of the small quantities involved and their institutional distance from primary suppliers. Notable exceptions to these relationships include natural gas and electricity suppliers, which typically establish fixed rates for each of several classes of service, depending on representative quantities, service factors, and distribution expenses.

Taxes in the price and expenditure data

The goal of SEDS state energy price is to provide estimates that include all taxes, but data sources often do not treat taxes uniformly. When the source data include taxes, SEDS includes them in the price and expenditure estimates. When the source doesn't include taxes, but SEDS can separately estimate them, SEDS includes them, with some exceptions listed below. In many cases, states and localities provide tax exemptions for various activities or groups of end users. SEDS does not include these complex exemptions into the state energy prices. EIA continues to analyze these cases to improve its estimates. A comprehensive and detailed study of taxes in EIA data is available in the report *End-Use Taxes: Current EIA Practices,* DOE/EIA-0583 (Washington, DC, August 1994). The report is available from EIA's Internet site at https://www.eia.gov/finance/archive/0583.pdf.

The status of tax data in the price and expenditure tables is summarized below and described more fully in the sections for each energy source and sector.

Energy sources consumed by the end-use sectors

Coal. All steam coal and coking coal prices include taxes in all years. Appropriately, coal imports and exports in the industrial sector do not include end-user taxes.

Natural gas. Natural gas prices are intended to include all federal, state, and local taxes, surcharges, and adjustments billed to consumers. Although the EIA data collection form states that taxes are to be included in the reported gross revenues, it is most likely that respondents would not consider sales taxes as part of their companies' gross revenues, and some may not be reporting them. As a result, consumer sales taxes may not be covered in full. For more information see *End-Use Taxes: Current EIA Practices*, page 23 of 134 in the PDF file, https://www.eia.gov/finance/archive/0583.pdf.

Petroleum. Prices of motor gasoline, diesel fuel, and propane used for transportation include excise and other per-gallon taxes. Due to the lack of uniformity in application, SEDS does not include state general sales taxes and local fuel and sales taxes. Other hydrocarbon gas liquids, distillate fuel oil, kerosene, and residual fuel oil prices include sales taxes in all years. Jet fuel, aviation gasoline, asphalt and road oil, lubricants, industrial petroleum coke, and other petroleum products (such as petrochemical feedstocks, special naphthas, and waxes) do not include taxes.

Wood and waste. Wood and waste prices for the residential, commercial, and industrial sectors include taxes.

Electricity. SEDS assumes that taxes paid directly by the electric power sector (rather than end users) are part of the operating costs and passed on to the end users as part of the price. Sales and other use taxes are included in the prices.

Fuels consumed by the electric power sector

Coal, natural gas, petroleum coke, nuclear, and wood and waste prices include all taxes, transportation, and handling costs. There are no direct fuel costs (or taxes) for hydroelectric, geothermal, solar, or wind energy. Capital, operation, and maintenance costs and related taxes associated with these energy sources are included indirectly because electricity prices reflect their presence in the rate base.

Figure TN1. U.S. Census regions and divisions

Region 1 Northeast	Region 2 Midwest		Region 3 South		Region 4 West	
Division 1 (New England)	**Division 3 (East North Central)**	**Division 4 (West North Central)**	**Division 5 (South Atlantic)**	**Division 6 (East South Central)**	**Division 8 (Mountain)**	**Division 9 (Pacific)**
Connecticut (CT) Maine (ME) Massachusetts (MA) New Hampshire (NH) Rhode Island (RI) Vermont (VT)	Illinois (IL) Indiana (IN) Michigan (MI) Ohio (OH) Wisconsin (WI)	Iowa (IA) Kansas (KS) Minnesota (MN) Missouri (MO) Nebraska (NE) North Dakota (ND) South Dakota (SD)	Delaware(DE) District of Columbia (DC) Florida (FL) Georgia (GA) Maryland (MD) North Carolina (NC) South Carolina (SC) Virginia (VA) West Virginia (WV)	Alabama (AL) Kentucky (KY) Mississippi (MS) Tennessee (TN)	Arizona (AZ) Colorado (CO) Idaho (ID) Montana (MT) Nevada (NV) New Mexico (NM) Utah (UT) Wyoming (WY)	Alaska (AK) California (CA) Hawaii (HI) Oregon (OR) Washington (WA)
Division 2 (Middle Atlantic)				**Division 7 (West South Central)**		
New Jersey (NJ) New York (NY) Pennsylvania (PA)				Arkansas (AR) Louisiana (LA) Oklahoma (OK) Texas (TX)		

Figure TN2. Federal regions

Region 1
New England

Connecticut (CT)
Maine (ME)
Massachusetts (MA)
New Hampshire (NH)
Rhode Island (RI)
Vermont (VT)

Region 2
New York/New Jersey

New Jersey (NJ)
New York (NY)

Region 3
Mid Atlantic

Delaware (DE)
District of Columbia (DC)
Maryland (MD)
Pennsylvania (PA)
Virginia (VA)
West Virginia (WV)

Region 4
South Atlantic

Alabama (AL)
Florida (FL)
Georgia (GA)
Kentucky (KY)
Mississippi (MS)
North Carolina (NC)
South Carolina (SC)
Tennessee (TN)

Region 5
Midwest

Illinois (IL)
Indiana (IN)
Michigan (MI)
Minnesota (MN)
Ohio (OH)
Wisconsin (WI)

Region 6
Southwest

Arkansas (AR)
Louisiana (LA)
New Mexico (NM)
Oklahoma (OK)
Texas (TX)

Region 7
Central

Iowa (IA)
Kansas (KS)
Missouri (MO)
Nebraska (NE)

Region 8
North Central

Colorado (CO)
Montana (MT)
North Dakota (ND)
South Dakota (SD)
Utah (UT)
Wyoming (WY)

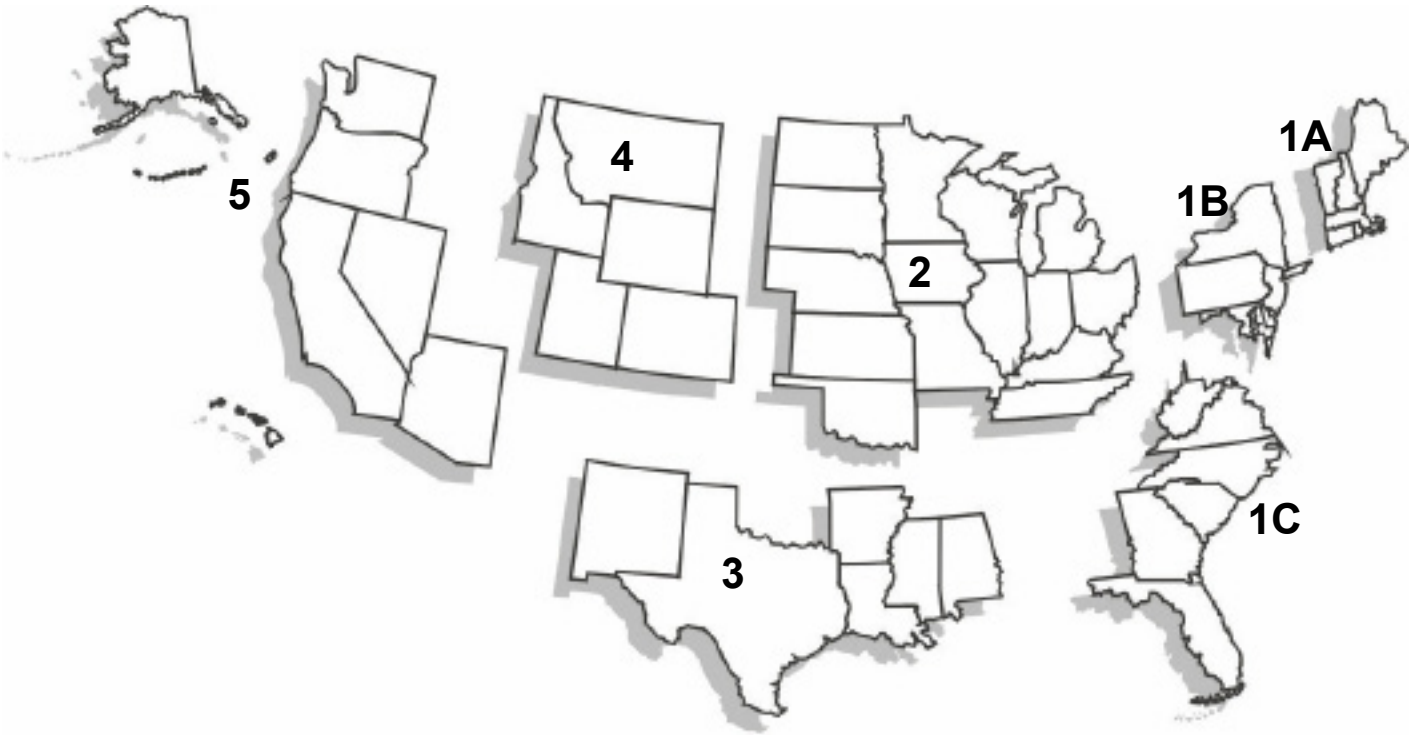
Region 9
West

Arizona (AZ)
California (CA)
Hawaii (HI)
Nevada (NV)

Region 10
Northwest

Alaska (AK)
Idaho (ID)
Oregon (OR)
Washington (WA)

Figure TN3. Petroleum Administration for Defense districts and subdistricts



Subdistrict 1A

Connecticut (CT)
Maine (ME)
Massachusetts (MA)
New Hampshire (NH)
Rhode Island (RI)
Vermont (VT)

Subdistrict 1B

Delaware (DE)
District of Columbia (DC)
Maryland (MD)
New Jersey (NJ)
New York (NY)
Pennsylvania (PA)

Subdistrict 1C

Florida (FL)
Georgia (GA)
North Carolina (NC)
South Carolina (SC)
Virginia (VA)
West Virginia (WV)

District 2

Illinois (IL)
Indiana (IN)
Iowa (IA)
Kansas (KS)
Kentucky (KY)
Michigan (MI)
Minnesota (MN)
Missouri (MO)
Nebraska (NE)
North Dakota (ND)
Ohio (OH)
Oklahoma (OK)
South Dakota (SD)
Tennessee (TN)
Wisconsin (WI)

District 3

Alabama (AL)
Arkansas (AR)
Louisiana (LA)
Mississippi (MS)
New Mexico (NM)
Texas (TX)

District 4

Colorado (CO)
Idaho (ID)
Montana (MT)
Utah (UT)
Wyoming (WY)

District 5

Alaska (AK)
Arizona (AZ)
California (CA)
Hawaii (HI)
Nevada (NV)
Oregon (OR)
Washington (WA)

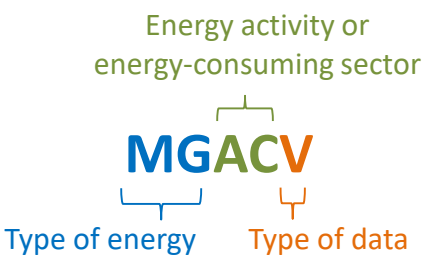
Section 1. Documentation guide

This section describes the common data identification codes used in the State Energy Data System (SEDS). Sections 2 through 6 provide information for each of the major energy sources: coal, natural gas, petroleum, renewable energy, and electricity. Section 7 describes adjustments for consumption of industrial process fuel, intermediate products, and other uncosted energy sources that SEDS removes to calculate expenditures.

The energy indicators technical notes provides the degree day data, electric net summer capacity data, resident population data used in per capita calculations, and current-dollar gross domestic product (GDP) used to calculate energy expenditures per dollar of GDP. Appendix A is an alphabetical listing of all the variable names and formulas used in the price and expenditure module. Appendix B provides metric and other physical conversion factors for measures used in energy analyses. Appendix C summarizes the changes in SEDS content made since the last complete release of data.

There are about 1,000 variables in SEDS, each identified by a unique five-character mnemonic series name, or MSN. All published MSNs are listed in the Codes and Descriptions file on the SEDS website here: https://www.eia.gov/state/seds/CDF/Codes_and_Descriptions.xlsx.

In the following example, MGACV is the identifying code for motor gasoline expenditures in the transportation sector in million dollars:



The first two characters in the SEDS variable names represent energy sources and products:

AR = asphalt and road oil
AV = aviation gasoline
B1 = renewable diesel
BD = biodiesel
BF = biofuels
BO = other biofuels
BT = battery storage
BX = total biofuels (excluding fuel ethanol)
CC = coal coke
CL = coal
DF = distillate fuel oil
EL = electricity
EM = fuel ethanol, excluding denaturant
ES = electricity sales
FN = petrochemical feedstocks, naphtha less than 401°F
FO = petrochemical feedstocks, other oils equal to or greater than 401°F
FS = petrochemical feedstocks, still gas
HL = hydrocarbon gas liquids
HP = hydroelectric pumped storage
JF = jet fuel
KS = kerosene
LU = lubricants
MG = motor gasoline
MS = miscellaneous petroleum products
NG = natural gas, including supplemental gaseous fuels
NU = nuclear electric power
OH = other hydrocarbon gas liquids
OJ = other gases
OP = other petroleum products
P1 = asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and other petroleum products
P5 = other intermediate products (petroleum only)
PA = all petroleum products
PC = petroleum coke
PE = primary energy
PQ = propane
RF = residual fuel oil
SN = special naphtha
SU = product supplied
TE = total energy
TN = end-use energy consumption
WD = wood

WW = wood and waste
WX = waxes

SEDS assumes that there are no direct fuel costs for hydroelectric (HY), geothermal (GE), solar thermal and photovoltaic (SO), and wind (WY) energy. There are no price and expenditure MSNs for these energy sources. SEDS also assumes that all biofuels are consumed as a mixture with finished petroleum products, and therefore there are not separate price or expenditure data for biofuels.

The third and fourth characters in the SEDS variable names have several meanings and some are specific to only certain energy sources. First, many represent the energy-consuming sectors:

AC = transportation sector
CC = commercial sector
EG = electric power sector (generation)
EI = electric power sector (consumption)
ET = total cost of electricity generation (nuclear only)
IC = industrial sector
RC = residential sector
TC = total consumption of all energy-consuming sectors
TX = total end-use consumption

"TP" in the third and fourth characters represents per capita expenditures.

The third and fourth characters in the SEDS variable names also indicates activities such as trade and subsectors that SEDS uses to calculate prices and expenditures. Examples are:

EX = exports
GB = generating units net summer capacity total (all sectors)
IM = imports
IS = industrial consumption, costed
KC = coke plants (coal only)
NI = net imports
OC = industrial consumption, excluding coke plants
SU = product supplied

Lastly, the third and fourth characters in the SEDS variable names identify the activities used to calculate adjusted consumption for the expenditure calculations. Examples are:

AS = transportation sector adjusted consumption
CS = commercial sector adjusted consumption
IS = industrial sector adjusted consumption
RS = residential sector adjusted consumption

Table TN1.1. Geographic area codes used in the State Energy Data System

Code	State	Code	State
AK	Alaska	MT	Montana
AL	Alabama	NC	North Carolina
AR	Arkansas	ND	North Dakota
AZ	Arizona	NE	Nebraska
CA	California	NH	New Hampshire
CO	Colorado	NJ	New Jersey
CT	Connecticut	NM	New Mexico
DC	District of Columbia	NV	Nevada
DE	Delaware	NY	New York
FL	Florida	OH	Ohio
GA	Georgia	OK	Oklahoma
HI	Hawaii	OR	Oregon
IA	Iowa	PA	Pennsylvania
ID	Idaho	RI	Rhode Island
IL	Illinois	SC	South Carolina
IN	Indiana	SD	South Dakota
KS	Kansas	TN	Tennessee
KY	Kentucky	TX	Texas
LA	Louisiana	UT	Utah
MA	Massachusetts	VA	Virginia
MD	Maryland	VT	Vermont
ME	Maine	WA	Washington
MI	Michigan	WI	Wisconsin
MN	Minnesota	WV	West Virginia
MO	Missouri	WY	Wyoming
MS	Mississippi	US	United States

SC = total adjusted consumption, all sectors
SS = total adjusted consumption, all end-use sectors

Section 7 describes all the variables used in the calculation of adjusted consumption and Appendix A2 lists the MSNs and the formulas.

The fifth character of the SEDS variable name identifies the units or type of data:

B = consumption in British thermal units (Btu)
D = price in dollars per million Btu
K = factor for converting data from physical units to Btu
P = data in standardized physical units

S = share or ratio expressed as a fraction
V = expenditure in million dollars

There are a few variables that do not follow the convention, including most energy indicators variables, such as:

GDPRV = current-dollar gross domestic product (GDP)
TEGDS = total energy expenditures as percent of current-dollar GDP
TPOPP = resident population
ZWCDP = cooling degree days (CDD)
ZWHDP = heating degree days (HDD)

Throughout the technical notes, SEDS often describes the variables with a geographic identification attached to them. Geographic areas used in SEDS are the 50 states, the District of Columbia (represented by the U.S. Postal Service state abbreviations), and the United States as a whole. In SEDS, the term “state” includes the District of Columbia.

Table TN1.1 shows the geographic area codes used in SEDS prices and expenditures variables.

Section 2. Coal

The State Energy Data System (SEDS) estimates coal prices for: coking coal; steam coal (all noncoking coal); and coal coke imports and exports.

Coking coal is a high-quality bituminous coal used to make coal coke in the industrial sector. Steam coal can be used by all sectors, and includes anthracite, bituminous coal, subbituminous coal, and lignite. In the industrial sector, coal consumption is the sum of coking coal and steam coal. SEDS calculates the industrial coal price as the consumption-weighted average price of those two components.

Imports and exports of coal coke are available only at the national level and SEDS assumes all of them are accounted for in the industrial sector. SEDS reports imports and exports of coal coke separately and does not average them with other coal prices or expenditures.

Coking coal

Coking coal is usually more expensive than steam coal. Coking coal prices are those paid at coke plants for coal received and include insurance, freight, and taxes. SEDS uses data from Form EIA-3, "Quarterly Survey of Industrial, Commercial & Institutional Coal Users" (and previous survey forms on coke plants), published in the *EIA Annual Coal Report*.

Physical unit prices: 2005 forward

For 2005 forward, coking coal prices are available only for the United States, the East North Central Census Division, and for some states. SEDS assigns the East North Central price to the states in that division, except for states with published data (Indiana for 2007, 2014, and 2015 and Ohio for 2011 forward). SEDS calculates a consumption-weighted price for the states in all other Census divisions using the U.S. data excluding the East North Central data.

Physical unit prices: 1970 through 2004

Source publications contain physical unit prices for states, groups of states, or Census divisions. Individual state prices are used directly for their respective states. Where individual state prices are not available, the associated group or Census division prices are assigned. Wherever individual state, group, or Census division prices are unavailable, prices are assigned from adjacent or nearby states or Census divisions or from states with similar coal use patterns as shown in Table TN2.1.

Btu prices: all years

SEDS converts state-level coal coke prices from physical unit prices to dollars per million Btu using the state-level conversion factors for coking coal. SEDS calculates U.S. Btu prices as the consumption-weighted average of the state Btu prices, using SEDS consumption data.

Data sources

Prices

2000 forward: U.S. Energy Information Administration (EIA), *Annual Coal Report*, Table 35 (2000), Table 34 (2001 forward), https://www.eia.gov/coal/annual/.

1996 through 1999: EIA, *Coal Industry Annual 2000*, Table 96.

1981 through 1995: EIA, *Quarterly Coal Report*, October-December issue, Table A3 (1981-1991), Table 39 (1992-1994), and Table 31 (1995), https://www.eia.gov/coal/production/quarterly/.

1977 through 1980: EIA, *Coke and Coal Chemicals*, Table 19 (1977), Table 15 (1978), and Table 7 (1979, 1980).

1970 through 1976: Bureau of Mines, U.S. Department of the Interior, *Minerals Yearbook*, "Coke and Coal Chemicals" chapter, Table 22.

Consumption

1970 forward: EIA, State Energy Data System, coking coal consumption.

Conversion factors: all years

EIA, State Energy Data System, consumption technical notes, Appendix B. Data also available in CSV format at https://www.eia.gov/state/seds/sep_update/use_convfac_update.csv.

Table TN2.1. Coking coal state group price and adjacent state price assignments, 1970 through 2004

State	Years	State or division prices assigned
AL	1999, 2001–2004	East South Central
	2000	U.S.
CA	1970–1982	CA, CO, UT
CO	1970–1982	CA, CO, UT
IL	1986–1998	IN
	1999–2004	East North Central
IN	1997–2000	East North Central
KY	1970–1987	KY, MO, TN, TX
	1988–1998	OH
	1999–2004	East South Central
MD	1970, 1971	MD, NJ, NY
	1983–1991, 1993	PA
MI	1979	MI, MN, WI
	1980–1985, 1987	MI, WI
	1988–1991, 1993–1998	OH
	1999–2004	East North Central
MN	1970–1978	MN, WI
	1979	MI, MN, WI
MO	1970–1987	KY, MO, TN, TX
	1988	AL
NJ	1970, 1971	MD, NJ, NY
NY	1970, 1971	MD, NJ, NY
	1972–1982	MD, NY
	1983–1998	PA
	1999	Middle Atlantic
	2000–2004	East North Central
OH	1997–2004	East North Central
PA	1997–1999	Middle Atlantic
	2000–2004	East North Central
TN	1970–1987	KY, MO, TN, TX
	1988–1991	AL
TX	1970–1987	KY, MO, TN, TX
UT	1970–1982	CA, CO, UT
	1983–1986	TX
	1988–1998	IN
	1999–2001	East North Central
VA	1970, 1971, 1976, 1977	WV
	1978–1982	VA, WV
	1983–1986	KY
	1987–1998	OH
	1999–2004	East North Central
WI	1970–1978	MN, WI
	1979	MI, MN, WI
	1980–1985, 1987	MI, WI
WV	1978–1982	VA, WV
	1983–1986	KY
	1987–1998	OH
	1999–2004	East North Central

Steam coal

Steam coal is used in all sectors. Price data are usually available for the electric power and industrial sectors. However, no price data are available for the commercial sector before 2008 and the transportation sector, which reported coal consumption through 1977. SEDS assigns the industrial sector steam coal prices to those two sectors for those time periods. Described below are the methods and data sources used to estimate coal prices by sector. SEDS also adjusts the amount of industrial steam coal consumption to account for intermediate process fuels and avoid double counting (see the discussion in Section 7, "Consumption adjustments for calculating expenditures," at https://www.eia.gov/state/seds/seds-technical-notes-complete.php).

Residential sector

SEDS residential sector steam coal price estimates represent the average prices of coal purchased by residential customers and include taxes. For 2008 forward, EIA assumes there is zero residential sector coal consumption in the United States, and SEDS does not estimate a price.

Physical unit prices: 1979 through 2007

Residential steam coal Btu prices for 1979 forward are not available. State-level spot prices for coal paid by the electric power sector are used in a regression equation to estimate state-level residential steam coal prices for 1979 forward. The residential steam coal prices calculated for 1974 through 1978 from the American Gas Association *Gas Househeating Survey* (GHS) and the average Btu spot prices from the EIA *Cost and Quality of Fuels for Electric Utility Plants* (C&Q) for 1974 through 1978 are used to develop the regression equation. Electric power coal spot prices from the C&Q for 1979 forward are converted from cents per million Btu to dollars per million Btu.

Some states have GHS residential prices during the 1974 through 1978 period to use in the regression analysis, but are missing electric power sector prices in the 1979 forward data used to calculate prices. For these missing data, spot prices are assigned from other states for use in the regression, as shown in Table TN2.2. C&Q prices for ND and MT for some years result in a negative price when used in the regression; therefore MN spot prices are assigned to ND for use in the regression and the WY final residential sector steam coal price is assigned to MT as shown in Table TN2.2 and Table TN2.3.

Table TN2.2. Residential sector: electric power coal spot price assignments, 1979 through 2007

State	Years	State prices assigned	State	Years	State prices assigned
CO	1979, 1981	KS	NH	1974, 1975, 1981, 1983	VT
CT	1975	NY		1984, 1985	MA
	1976–1979, 2001–2007	NH	NJ	2007	NY
	1980–1987, 1993–1995, 2000	MA	NV	1975–1978, 1983–1989, 1992, 1993, 1995	CO
DC	1976–1999	MD		2006	UT
	2001–2005, 2007	VA	PA	2006, 2007	OH
DE	2006, 2007	VA	RI	1974	CT
ID	1974, 1979–1982, 1996–2005	NV		1975	VT
	1975–1977	SD		1976–1979, 2001–2007	NH
	1978	ND		1980–2000	MA
	1983–1995	CO	SD	1978, 1984	ND
	2006, 2007	UT		1979–1983, 1986, 1987, 1989,	MN
MA	1975	VT		1991–2001	
	1976–1979, 2001, 2007	NH		2005, 2007	IA
MD	2001–2007	VA	UT	1975–1978, 1980, 1983, 2000	CO
ME	1974, 1975, 1981, 1983	VT		1979	NV
	1976–1980, 1982, 1986, 1996–2007	NH	VT	1976, 1980, 2001–2007	NH
	1984, 1985	MA		1984–2000	MA
MN	2005, 2006	IA	WA	1970, 2001–2007	OR
MT	1974, 1975, 1978	ND		1974–1978, 1983–1985	CO
	1976, 1977	SD		1979–1982	NV
	1979–1982	NV	WY	1974–1976, 1978, 1982, 1985,	CO
ND	1976, 1977	SD		2005-2007	
	1979–2001	MN			

Price estimates for 1974 through 1978 for some states are not available be-cause there was no consumption. To calculate prices for 1979 forward, these states are assigned the final prices from selected states as shown in Table TN2.3. In addition, several states are assigned the simple average of the final prices of adjacent states as shown in Table TN2.3. Alaska residential coal prices are estimated by using a different methodology, described below.

Physical unit prices: 1971 through 1978

For 1971 through 1978, Btu steam coal prices are calculated by using data from GHS. The price for a state is equal to the simple average of the city/utility price observations for that state. For 1971 and 1972, GHS reports physical unit prices rather than Btu prices (as published for 1973 through 1978) and, therefore, the state-level conversion factors for this sector from SEDS are used to convert to Btu prices for those years. AK residential coal prices are estimated by using a different methodology, described below.

A simple average of price observations in CT, MA, ME, NH, RI, and VT is assigned to each of these states. To impute other missing prices in the 1971 through 1978 period, states are assigned simple averages of adjacent state prices or are directly assigned the single price of an adjacent or nearby state as listed in Table TN2.4.

Physical unit prices: 1970

Because state-level coal price data for 1970 are not available from either GHS or C&Q, the 1970 residential sector coal prices are calculated by using the 1971 through 1978 data from the Edison Electric Institute, *Statistical Yearbook of the Electric Utility Industry*, for the 39 states, with some reported coal use from 1971 through 1983 and regression analysis.

Table TN2.3. Residential sector coal final price assignments, 1979 through 2007

State	Years	State and averaged final prices assigned
AR	1980, 1982, 1984, 1985,	AL
	1987–1995, 1998, 2002, 2004–2007	
	1999	MO
	1981	MO, OK, TN, TX
	1983	MO, MS, OK, TN
AZ	1982, 1984, 1985	CA, NM, NV, UT
	1987, 1988, 1990–1995, 1998–2007	UT
CA	1979–1985	NV
	1987–2004	WA
	2005, 2006	UT
FL	1980–1996, 1998, 1999–2002	GA
	2003–2007	AL
LA	1980, 1982, 1984, 1986, 1988,	AL
	1991, 1993, 1995, 1997, 2000, 2007	
MS	1979, 1980, 1983, 1984, 1986–1995,	AL
	1997	
	1985	AL, AR, TN
MT	1986–2002	WY
NM	1979–2007	CO
OK	1979–1999, 2001–2007	CO
OR	1979, 1980, 1982–2000	WA
	1981	CA, ID, NV, WA
TX	1980–1982, 1985–2007	CO

For estimating the 1970 prices, states missing *Statistical Yearbook* data are assigned prices as follows: ID for 1970 through 1978 from MT; MA for 1976 through 1978 from CT; ME for 1970 through 1978 from NH; RI for 1973 and 1975 through 1978 from CT; and WA for 1970 through 1972 from OR. DC, DE, and MD are all assigned the combined *Statistical Yearbook* price for those states. Wherever individual state prices are unavailable, prices are assigned from an adjacent or nearby state as follows: CA from NV; NM from CO; OK from CO; OR from WA; and TX from CO. AK residential coal prices are estimated by using a different methodology, described as follows.

Alaska prices: all years

For 1994 through 2007, SEDS estimates Alaska's residential coal prices using an informal survey of the state's only coal supplier. For 1978 through 1993, SEDS estimates Alaska's residential prices as the product of the Washington residential prices and the average ratio of Alaska-to-Washington prices during 1970 through 1977. For 1970 through 1977, SEDS estimates Alaska's residential prices using the ratio of Alaska-to-

Table TN2.4. Residential sector spot coal price assignments, 1971 through 1978

State	Years	State assigned or averaged prices
AL	1971	TN
AR	1977, 1978	AL
CA	1971, 1972, 1974, 1978	NV
DC	1971–1978	MD
DE	1971, 1972, 1974, 1976, 1977	MD
GA	1971	NC, TN
	1972	AL, NC, TN
ID	1977	MT, UT, WY
KS	1971, 1972	CO, MO
MN	1971	IA, ND, WI
	1972	IA, WI
MS	1978	AL
MT	1971	ID, ND, WY
	1972, 1973	ID, WY
ND	1972	IA, WI
	1973	MN, SD
	1974	MN, MT, SD
NE	1971, 1972	CO, IA, MO, WY
	1975	CO, IA, KS, MO, SD, WY
NJ	1971, 1972, 1974, 1977, 1978	DE, NY, PA
NM	1971	CO
NV	1971, 1972, 1975	ID, UT
	1973	ID, OR, UT
OK	1971–1978	CO
OR	1971–1978	WA
SC	1971, 1972	NC
SD	1971	IA, ND, WY
	1972	IA, WY
TX	1971–1974, 1977	CO
UT	1974, 1978	CO, ID, NV, WY
WA	1971, 1972, 1974	ID
	1977	MT, UT, WY
WV	1971, 1972	KY, MD, OH, PA, VA

U.S.-total electric utility sector prices.

Btu prices: all years

SEDS converts state-level residential coal prices from physical unit prices to dollars per million Btu using the state-level conversion factors for coal consumed by the residential and commercial sectors. SEDS calculates U.S. Btu prices as the consumption-weighted average of the state Btu prices, using SEDS consumption data.

Data sources

Prices

1974 through 2007: EIA, *Cost and Quality of Fuels for Electric Plants*, average spot coal prices, Table 2 (1974-1979), Table 44 (1980 through 1982), Table 49 (1983, 1984), Table 39 (1985-1989), Table 8 (1990, 1991), and Table 3 (1992 through 2007), https://www.eia.gov/electricity/data/eia423/ and https://www.eia.gov/electricity/data/eia923/eia906u.html.

1994 through 2007: Alaska price estimated from informal discussions with Usibelli Coal Mine Co., the only coal supplier in Alaska.

1971 through 1978: American Gas Association, *Gas Househeating Survey*, table titled "Competitive Fuel Prices."

1970 through 1978: Edison Electric Institute, *Statistical Yearbook of the Electric Utility Industry*, Table 43S.

Consumption

1970 through 2007: EIA, State Energy Data System, residential sector coal consumption.

Conversion factors: 1971, 1972

EIA, State Energy Data System, consumption technical notes, Appendix B. Data also available in CSV format at https://www.eia.gov/state/seds/sep_update/use_convfac_update.csv.

Commercial sector

Physical unit prices: 2008 forward

For 2008 forward, SEDS uses commercial coal prices from Form EIA-3, "Quarterly Survey of Industrial, Commercial & Institutional Coal Users," published in EIA's *Annual Coal Report*. Prices include insurance, freight, and taxes.

Table TN2.5. Commercial sector final price assignments, 1970 through 2007

State	Years	State prices assigned
CT	1980	NY
	1995–2004, 2006, 2007	MA
DC	1980–2005, 2007	MD
NH	1994, 1996–2007	MA
NJ	2007	NY
OK	1970	KS
OR	1999, 2000	WA
RI	1982, 1983, 1991–2007	MA
VT	1993–1997, 2000, 2005–2007	MA

SEDS estimates prices for states that have withheld or unavailable data by applying the ratio between the U.S. commercial steam coal price and the U.S. industrial steam coal price to the state's industrial steam coal price. For the District of Columbia, which does not have any commercial or industrial steam coal prices, SEDS uses Maryland's industrial steam coal prices for 2008 through 2015 and Virginia's commercial steam coal prices for 2016 forward.

Btu prices: 2008 forward

SEDS converts state-level commercial coal prices from physical unit prices to dollars per million Btu using the state-level conversion factors for coal consumed by the commercial sector. SEDS estimates the Alaska prices using an informal survey from the state's only coal supplier. SEDS calculates U.S. Btu prices as the consumption-weighted average of the state Btu prices, using SEDS consumption data.

Btu prices: 1970 through 2007

Commercial sector prices are assigned industrial steam coal prices. States without Btu industrial steam coal prices are assigned the prices from adjacent states, as shown in Table TN2.5. The Alaska prices for 1994 through 2007 are estimated from an informal survey of the single coal supplier in the state. U.S. Btu prices are calculated as the average of all states' Btu prices, weighted by consumption data from SEDS.

Data sources

Prices

2008 forward: EIA, *Annual Coal Report*, Table 34, https://www.eia.gov/

coal/annual/. Also available at the Coal Data Browser at https://www.eia.gov/coal/data/browser/ for 2008 forward.

1970 through 2007: Assigned industrial steam coal prices.

Consumption

1970 forward: EIA, State Energy Data System, commercial sector coal consumption.

Conversion factors: 2008 forward

EIA, State Energy Data System, consumption technical notes, Appendix B. Data also available in CSV format at https://www.eia.gov/state/seds/sep_update/use_convfac_update.csv.

Industrial sector

For 1980 forward, SEDS uses quarterly industrial coal prices from Form EIA-3, "Quarterly Survey of Industrial, Commercial & Institutional Coal Users" and predecessor forms, which collects manufacturers' coal stocks, receipts, prices, and consumption. From 1980 through 1988, all manufacturers that consumed coal were required to respond to Form EIA-3. For 1989 forward, EIA only collects data from manufacturers that consumed 1,000 or more tons per year. Data prior to 1980 are based on the monthly average cost of coal sold to manufacturing firms.

Physical unit prices: 1980 forward

For 1984 forward, EIA's *Annual Coal Report* and predecessor publications publish state prices, including insurance, freight, and taxes. For 1980 through 1983, SEDS uses data directly from Form EIA-3, and predecessor forms.

SEDS usually estimates industrial prices for states that have withheld or unavailable data using available growth rates, simple averages of the published data for adjacent states, or published Census division prices. Table TN2.6 shows the adjacent state and Census division price assignments.

The source withholds Washington's prices for 1999 forward. Usually Washington prices are higher than the Census division price. For 1999 forward, SEDS estimates the Washington prices as the product of the Pacific Division prices and the average ratio of Washington-to-Pacific Division prices for 1995 through 1998. In 2002, the price for the Pacific Division is withheld and SEDS uses the average Pacific Division price from 1999 through 2001.

North Dakota has the largest coal consumption among the states in the West North Central Division, but the source withholds its price data for 1984 through 2000. SEDS estimates North Dakota's prices by subtracting the calculated expenditure (the product of consumption and price) of the states in the West North Central Division with reported prices from the Division's calculated expenditure. SEDS divides this difference with the consumption of the remaining states.

For 2013 forward, SEDS estimates the price for Maryland as the product of the U.S. price and the previous year's ratio of the Maryland price to U.S. price. For 2019, SEDS derives the price for New York by subtracting the calculated expenditure of Pennsylvania from that of the Middle Atlantic Division and dividing it by New York's consumption. For 2020, SEDS estimates the price for West Virginia using the growth rate of the South Atlantic Census Division price.

For 1998 through 2000 and 2002, the source withholds prices for the New England Division. SEDS estimates the New England Division prices as the average ratio of the New England to the East North Central price from 1995 through 1997 applied to the East North Central prices for those years. The source also withholds the New England Division prices for 2006 and 2008 through 2011. SEDS estimates the New England Division prices as the average ratio of the New England to the East North Central price from 2003 through 2005 applied to the East North Central prices for those years. For 2013 forward, the source also withholds the New England Division prices. SEDS calculates a consumption-weighted annual percent change for the New England Division using the annual percent changes for Massachusetts and Maine, which are available in the *Annual Coal Report*, and applies it to the previous year's New England Division price.

Physical unit prices: 1971, 1974 through 1979

For 1971, and 1974 through 1979, available cost and quantity of bituminous coal, lignite, and anthracite from the *Annual Survey of Manufactures* (ASM) or *Census of Manufactures* (CM) are used to calculate prices as average cost per unit of sales for covered states. (States with undisclosed data are not considered covered.) Although it is not clear from the data sources, the prices probably include taxes.

For states with industrial steam coal use and for which ASM or CM data are not available in 1971 and 1974 through 1979, adjacent state simple averages of available ASM/CM data are used to impute prices. The assigned prices from adjacent states are shown in Table TN2.7.

Table TN2.6. Industrial sector steam coal price assignments, 1980 forward

State	Years	Prices used in the assignment
AR	2010, 2012–2014	TX
	2015–2023	MO, OK, TN, TX
AZ	1980	CA, UT
	1981, 1984–1986	CA, CO, UT
	2013–2018	CA, CO, NV, UT
	2019–2023	CA, NV, UT
CO	1980	KS, UT
	2000	UT, WY
	2001	KS, NE, OK, UT, WY
	2002, 2003	KS, NE, UT, WY
	2004–2007	AZ, KS, NE, OK, UT, WY
	2008	AZ, NE, OK, UT, WY
	2009–2011	AZ, NE, UT, WY
	2019–2023	Mountain
CT	1981–1994, 2005, 2006	New England
DC	1980, 1981	MD
DE	1980–2003	MD
	2004–2009	MD, PA
	2016	PA
FL	1980	AL, GA
	2023	AL
GA	2023	AL, NC, SC, TN
HI	1982, 1983, 1987–2016	CA
ID	1999	UT, WY
	2016–2021	MT, NV, UT, WY
IL	2022, 2023	IA, IN, KY, MO, WI
KS	2000, 2008–2014	MO
	2015–2018	CO, MO, NE, OK
	2019–2023	MO, NE, OK
LA	1980–2009	AR, TX
	2010–2023	TX
MA	1980–1983	NY
	1984–2019	New England
ME	1980–1983	NY
	1984–2020	New England
MS	1980–2009	AL, AR, TN
	2010–2015, 2019–2023	AL, TN
MT	1983, 1987–1990, 1992, 2003–2011	ID, WY
	1984–1986	ID
	1991, 1993–1998, 2000–2002	ID, SD, WY
	1999	SD, WY
ND	1980–1982	MN, MT
	1983	MN
NE	1980	IA, KS, MO
	1982, 1983, 1987–1990, 1992	CO, IA, KS, MO, WY
	1991, 1993–1999	CO, IA, KS, MO, SD, WY
	2000	IA, MO, SD, WY
NH	1980–1983	NY
	1984–1993, 1995	New England
NJ	1980–1997, 2000–2006	NY, PA
	1998, 1999	PA
NM	1980, 2013, 2014	TX, UT
	1981	CO, OK, TX
	1982, 1983	AZ, CO, OK, TX
	1984–1986, 2015–2018	CO, OK, TX, UT
	1987	AZ, CO, OK, TX, UT
	1988–1999	AZ, CO, TX, UT
	2000, 2002, 2003, 2009–2012	AZ, TX, UT
	2001, 2004–2008	AZ, OK, TX, UT
	2019–2023	OK, TX, UT
NV	1980, 1981, 1984–1986	CA, ID, UT
	1983, 1987–1998, 2000–2011	AZ, CA, ID, UT
	1999	AZ, CA, UT
NY	1998, 1999	PA
OK	1980	AR, KS, MO, TX
	1984–1999	AR, CO, KS, MO, TX
	2000	AR, MO, TX
OR	1980, 1981, 1983–1998	CA, ID, WA
	1982	CA, ID, NV, WA
	2002–2014	CA, ID
	2015, 2023	CA, ID, NV
	2017–2022	CA, NV
RI	1980, 1981	NY
	1984–1990	New England
SD	1980	IA, MN, MT
	1981	IA, MN, MT, NE
	1982	IA, MN, MT, WY
	1983, 1987–1990, 1992–1995	IA, MN, WY
	1984–1986	IA, MN, NE
	2003–2014	IA, MN, NE, WY
	2015–2023	IA, MN, MT, ND, NE, WY
VT	1980–1983	NY
	1984–1992, 1997–1999	New England
WV	1980	KY, MD, OH, PA, VA
WY	1980	ID, MT, UT
	1981	CO, ID, MT, NE, UT
	1984–1986	CO, ID, NE, UT

Table TN2.7. Industrial sector steam coal price assignments for 1971 and 1974 through 1979

State	Years	State prices used in the assignment	State	Years	State prices used in the assignment
AR	1971, 1974, 1975	MO, TN	NE	1979	IA, MO
	1979	MO, TN, TX	NH	1971, 1974–1979	MA
AZ	1971	CA, NV, UT	NM	1971	CO, OK, TX, UT
	1974–1978	CA, UT		1974, 1976–1978	KS, UT
CO	1974–1978	KS, NE, UT		1979	UT
	1979	UT	NV	1974	CA, OR, UT
CT	1974–1978	MA, NY		1975–1979	CA, UT
	1979	NY	OK	1974, 1975	KS, MO
DC	1971, 1974–1979	MD, VA		1976–1978	AR, KS, MO
DE	1971, 1974–1979	MD, NJ, PA		1979	MO, TX
FL	1979	AL, GA	OR	1975–1978	CA
ID	1974	OR, UT		1979	CA, WA
	1975–1978	UT	RI	1971, 1974–1978	MA
	1979	UT, WA		1979	NY
KS	1979	MO	SD	1971, 1974	IA
LA	1978	AR		1975–1978	IA, MN, NE
	1979	TX		1979	IA, MN
MA	1979	NY	TX	1974, 1975	KS
ME	1975–1978	MA		1976–1978	AR, KS
	1979	NY	VT	1971, 1974–1978	MA
MS	1971, 1974, 1975, 1979	AL, TN		1979	NY
	1976–1978	AL, AR, TN	WA	1974	CA, OR
MT	1974–1978	MN, NE, UT		1975–1978	CA
	1979	MN, UT	WY	1974–1978	NE, UT
ND	1974–1979	MN		1979	UT

Physical unit prices: 1970, 1972, 1973

Steam coal industrial sector prices for 1970, 1972, and 1973 (years for which no ASM/CM prices are available) are estimated by using regression techniques. Values for the independent variable are steam coal electric utility sector physical unit prices, and values for the dependent variable are the steam coal industrial physical unit prices (from ASM or estimated, as described above) for 1971 and 1974 through 1977. A few states are assigned electric utility prices for the dependent variable in the regression, as shown in Table TN2.8. Wherever individual state prices remain unavailable after the estimation that used the above regression techniques, prices are assigned from adjacent or nearby states, as shown in Table TN2.9.

Physical unit prices: Alaska, all years

For 1994 and 1996 forward, SEDS estimates the Alaska steam coal industrial sector prices using an informal survey from the state's only coal supplier. There is no steam coal consumption reported for Alaska's industrial sector for 1995. For all other years with industrial steam coal use in Alaska (1993, and 1970 through 1977), SEDS assumes the ratio of industrial Alaska to the U.S. prices are the same as the ratio of the Alaska and U.S. prices in the electric power sector.

Btu prices: all years

SEDS converts state-level commercial coal prices from physical unit prices to dollars per million Btu using the conversion factors for steam coal consumed by the industrial sector. SEDS calculates the U.S. Btu

Table TN2.8. Industrial sector price assignments used in the regression equation for 1971 and 1974 through 1979

State	Years	State prices assigned
AR	1973–1977	MO
CA	1970–1977	NV
CT	1975–1977	NY
DC	1976, 1977	MD
ID	1970–1977	MT
MA	1976, 1977	NH
ME	1970–1977	NH
OK	1973–1975	KS
OR	1973–1977	WA
TX	1970	NM
WA	1970–1972	OR

prices as the consumption-weighted average of all states' Btu prices, adjusted for process fuel and coking coal consumption.

Data sources

Prices

2000 forward: EIA, *Annual Coal Report*, Table 35 (2000), Table 34 (2001 forward), https://www.eia.gov/coal/annual/. Also available at the Coal Data Browser at https://www.eia.gov/coal/data/browser/ for 2001 forward.

1991, 1996 through 1999: EIA, *Coal Industry Annual 2000*, Table 94.

1988, 1993 through 1995: EIA, *Coal Industry Annual 1997*, Table 94.

1987 and 1992: EIA, *Coal Industry Annual 1996*, Table 94.

1985 and 1990: EIA, *Coal Industry Annual 1994*, Table 94.

1984 and 1989: EIA, *Coal Industry Annual 1993*, Table 94.

1986: EIA, *Coal Industry Annual 1995*, Table 94.

1980 through 1983: Form EIA-3, "Quarterly Coal Consumption Report-Manufacturing Plants," Table 25 (1980), Table 11 (1981 and 1982), and Table 2 (1983).

1971, 1974 through 1979: Census Bureau, U.S. Department of Commerce, *Annual Survey of Manufactures and Census of Manufactures*, Table 4 (1971) and Table 3 (1974-1979).

1970, 1972, 1973: Steam coal electric utility sector physical unit prices used in a regression equation with industrial sector prices from 1971 and 1974 through 1979.

Table TN2.9. Industrial sector final price assignments for 1970, 1972, and 1973

State	Years	State prices assigned
AR	1972	MO, TN
NH	1970, 1972, 1973	MA
RI	1970, 1972, 1973	MA
SD	1970, 1972, 1973	IA
VT	1970, 1972, 1973	MA

Consumption

1970 forward: EIA, State Energy Data System, industrial (other than coke plants) coal consumption.

Conversion factors: all years

EIA, State Energy Data System, consumption technical notes, Appendix B. Data also available in CSV format at https://www.eia.gov/state/seds/sep_update/use_convfac_update.csv.

Transportation sector

In 1970, transportation use of coal accounted for 298 of the 523,231 thousand short tons of total coal consumed in the United States and no coal was used for transportation after 1977. For all years, SEDS assumes transportation sector steam coal prices are the same as industrial sector steam coal prices. SEDS calculates U.S. Btu prices as the consumption-weighted average of the state Btu prices, using SEDS consumption data.

Electric power sector

Btu prices: 2002 forward

SEDS estimates most state Btu prices, including insurance, freight, and taxes, using unpublished cost data from Form EIA-923, "Power Plant Operations Report," and predecessor forms. When the source does not have state prices for the electric power sector, then SEDS uses the state's electric utility sector coal prices or the Census division prices, as shown in Table TN2.10. See the "Alaska prices: all years" section below for how SEDS estimates Alaska prices.

For 2016 forward, the source does not have prices for New Jersey or New York. Instead of assigning the Middle Atlantic Division price, SEDS estimates New Jersey and New York prices using the annual growth rate of the Middle Atlantic Division price applied to the 2015 price.

Table TN2.10. Electric power sector price assignments, 2002 forward

State	Years	Prices assigned	State	Years	Prices assigned
AL	2002, 2005, 2008–2011	Electric utility	MN	2005, 2008, 2009	Electric utility
AR	2010–2023	Electric utility	MS	2002, 2005–2023	Electric utility
CA	2005–2010	Electric power sector, Pacific	MT	2002, 2005–2021	Electric utility
	2011	Electric power sector, Pacific Contiguous		2022, 2023	Electric power sector, Mountain
	2012–2014	Electric utility, Pacific Contiguous	NC	2002, 2005, 2006, 2016,	Electric utility
CO	2008, 2010	Electric utility		2019, 2021	
CT	2002, 2005–2012, 2015	Electric power sector, New England	NV	2008–2023	Electric utility
	2013, 2014, 2016–2020	Electric utility, New England	OH	2002, 2005, 2012–2015,	Electric utility
DE	2002, 2005–2023	Electric power sector, South Atlantic		2018, 2022	
FL	2013–2017	Electric utility	OK	2002, 2005–2018	Electric utility
HI	2002, 2005–2010	Electric power sector, Pacific	PA	2019, 2020, 2022, 2023	Electric power sector, Middle Atlantic
	2011, 2015–2022	Electric utility, Pacific Noncontiguous		2021	Electric utility
	2012–2014	Electric utility, Pacific	SC	2008–2012, 2019–2023	Electric utility
IL	2016, 2017, 2019–2021, 2023	Electric utility	TX	2005–2009, 2019–2023	Electric utility
IN	2002, 2005–2007, 2009–2023	Electric utility	UT	2005–2011	Electric utility
KY	2005–2008	Electric utility	VA	2011, 2012, 2016–2019	Electric utility
LA	2002, 2005–2023	Electric utility	WA	2002, 2005–2010	Electric power sector, Pacific
MA	2005, 2010–2012, 2015	Electric power sector, New England		2011	Electric power sector, Pacific Contiguous
	2013, 2014, 2016, 2017	Electric utility, New England		2012–2020	Electric utility, Pacific Contiguous
MD	2020–2023	Electric power sector, South Atlantic	WI	2005–2009	Electric utility
ME	2002, 2005–2012, 2015	Electric power sector, New England	WV	2007–2010	Electric utility
	2013, 2014, 2016–2020	Electric utility, New England	WY	2006–2023	Electric utility
MI	2002, 2005–2023	Electric utility			

For 2021 forward, the source does not have prices for Connecticut, Maine, New Hampshire, or the New England Division. Where necessary, SEDS estimates prices for these states using the annual growth rate of the United States price applied to the 2020 New England Division price. For 2021 forward, the source does not have a price for Washington or the Pacific Contiguous Division. SEDS estimates the Washington price using the annual growth rate of the United States price applied to the 2020 Pacific Contiguous Division price.

Btu prices: 1973 through 2001

State Btu prices, including insurance, freight, and taxes, are taken from the EIA *Cost and Quality of Fuels for Electric Utility Plants* for 1973 through 2001 and are converted from cents to dollars per million Btu. Where individual state prices are withheld or unavailable, quantity-weighted Census division prices are assigned as shown in Table TN2.11. Price estimates for Alaska are explained below.

Btu prices: 1970 through 1972

Btu prices for states are taken from the Edison Electric Institute's *Statistical Yearbook* and are converted from cents to dollars. Delaware, DC, and Maryland are each assigned the combined price for the three states. The steam coal electric utility sector Alaska price for 1971 is estimated as discussed below.

Alaska prices: all years

For 2008 through 2011 and for 2015 forward, the EIA-923 source has prices for Alaska, as published in Table 6 of EIA's *State Electricity Profiles*. For 2012 through 2014, SEDS applies the annual price growth rate provided by the state's only coal supplier (Usibelli Coal Mine) to the previous year price.

Before 2008, the sources do not have prices for Alaska. For 1994 through 2007, SEDS estimates the Alaska prices using an unpublished informal

Table TN2.11. Electric power sector price assignments, 1973 through 2001

State	Years	State/Census division prices assigned
CA	1989–2001	Pacific
CT	1975–1979,2000, 2001	New England
DC	1976	MD, VA
HI	1990–2001	Pacific
MA	2001	New England
MD	2001	South Atlantic
ME	1990–2001	New England
OK	1973, 1974	West South Central
	1975	CO, KS, MO, NM, TX
OR	1983, 1989	Pacific
RI	1974	MA
VT	1980, 1983–1986	New England
WA	2001	Pacific

survey from Usibelli Coal Mine. For 1970 through 1993, SEDS estimates the Alaska Btu prices using data from the Edison Electric Institute's *Statistical Yearbook*. For 1970, 1972, 1974, 1976, 1977, and 1979 through 1993, SEDS directly uses prices from the *Statistical Yearbook*. SEDS estimates the 1971, 1973, 1975, and 1978 prices using the average ratio of Alaska to U.S. prices applied to the *Statistical Yearbook* prices. SEDS uses the 1970 and 1972 average ratio to estimate the 1971 and 1973 prices; the 1974 and 1976 average ratio for the 1975 price; and the 1977 and 1979 average ratio for the 1978 price.

U.S. prices: all years

SEDS calculates the U.S. Btu prices as the consumption-weighted average of the state Btu prices, using SEDS consumption data.

Data sources

Prices

2002 forward: For all states except Alaska, unpublished data from EIA, Form EIA-923, "Power Plant Operations Report," and predecessor forms.

2008 through 2011 and for 2015 forward: Alaska price data from EIA-923, *State Electricity Profiles*, Table 6.

1994 through 2007 and 2012 through 2014: Alaska price estimated from informal discussions with Usibelli Coal Mine Co., the only coal supplier in Alaska.

2001: FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants," database, available via the EIA website at https://www.eia.gov/electricity/data/eia423/.

1973 through 2000: EIA, *Cost and Quality of Fuels for Electric Utility Plants*, https://www.eia.gov/electricity/data/eia923/eia906u.html, Table 3 (1973-1979), Table 51 (1980-1982), Table 50 (1983, 1984), Table 40 (1985-1989), Table 7 (1990, 1991), and Table 2 (1992 through 2000).

1970 through 1993: Edison Electric Institute, *Statistical Yearbook of the Electric Utility Industry*, table titled "Analysis of Fuel for Electric Generation: Total Electric Utility Industry" (1970-1988), Table 29 (1989-1993).

Consumption

1970 forward: EIA, State Energy Data System, electric power sector coal consumption.

Conversion factors: all years

SEDS directly uses Btu prices from the data sources; no explicit conversion factors are used.

Coal coke imports and exports

Imports and exports of coal coke are components of total U.S. energy consumption and are accounted for in the industrial sector. Prices and values of imports and exports are developed only for the United States; no attempt is made to estimate state-level prices or expenditures. The quantities of U.S. coal coke imports and exports are taken from SEDS.

Physical unit prices: all years

For 1980 forward, the EIA *Coke Plant Report*, the EIA *Quarterly Coal Report*, and the U.S. Census Bureau provide physical unit coal coke import and export prices in dollars per short ton. For 1970 through 1979, *Coke and Coal Chemicals, International Coal*, and the *Minerals Yearbook* provide coal coke import and export physical unit quantities and values in short tons and dollars, respectively. Values are equivalent to expenditures.

Btu prices: all years

For 1980 forward, Btu prices are computed by dividing the physical unit prices by the conversion factor to calculate prices in dollars per million Btu. For 1970 through 1979, physical unit prices are computed by dividing the import and export values by their respective quantities, and Btu prices are computed by dividing the physical unit prices by the conversion factor.

Data sources

Prices

2012 forward: EIA, Coal Data Browser, total world price for coke exports https://www.eia.gov/coal/data/browser/#/topic/42?agg=2,1,0&rank=ok&linechart=~COAL.EXPORT_PRICE.COK-TOT-TOT.A&columnchart=COAL.EXPORT_PRICE.TOT-TOT-TOT.A&map=COAL.EXPORT_QTY.TOT-TOT-TOT.A&freq=A&start=2000&end=2022&ctype=linechart&ltype=pin&rtype=s&maptype=0&rse=0&pin= and imports https://www.eia.gov/coal/data/browser/#/topic/40?agg=2,1,0&rank=ok&linechart=~COAL.IMPORT_PRICE.COK-TOT-TOT.A&columnchart=COAL.IMPORT_PRICE.TOT-TOT-TOT.A&map=COAL.EXPORT_QTY.TOT-TOT-TOT.A&freq=A&start=2000&end=2022&ctype=linechart&ltype=pin&rtype=s&pin=&rse=0&maptype=0. Calculated using data from the Census Bureau, U.S. Department of Commerce, “Monthly Report IM 145” and “Monthly Report EM 545.”

1989 through 2011: Calculated by EIA using data from the Census Bureau, U.S. Department of Commerce, “Monthly Report IM 145” and “Monthly Report EM 545.”

1981 through 1988: EIA, *Quarterly Coal Report*, October-December issues, Tables A11 and A13 (1981-1985) and Tables A10 and A12 (1986-1988).

1980: EIA, *Coke Plant Report*, Tables 7 and 8.

1978 through 1979: EIA, *Coke and Coal Chemicals 1979*, Tables 5 and 6.

1977: National Coal Association, *International Coal 1980*, tables titled “U.S. Imports of Solid Fuels and Customs Value” and “U.S. Exports of Coke and Value.”

1976: EIA, *Coke and Coal Chemicals*, Tables 19 and 20.

1970 through 1975: Bureau of Mines, U.S. Department of the Interior, *Minerals Yearbook*, “Coke and Coal Chemicals” chapter, Tables 19 and 20.

Consumption

1970 forward: EIA, State Energy Data System, U.S. imports and exports of coal coke.

Conversion factors: all years

24.8 million Btu per short ton.

Section 3. Natural gas

The State Energy Data System (SEDS) estimates natural gas prices for the residential, commercial, industrial, transportation, and electric power sectors.

Natural gas prices for the end-use sectors are delivered prices to customers and are intended to include all federal, state, and local taxes, surcharges, and adjustments billed to consumers. For more information see *End-Use Taxes: Current EIA Practices*, page 18, https://www.eia.gov/finance/archive/0583.pdf.

SEDS calculates expenditures for natural gas as the product of the price estimates and the SEDS consumption estimates. SEDS adjusts the industrial sector consumption estimates to remove estimated refinery consumption and lease and plant use of natural gas. SEDS adjusts the transportation sector consumption estimates to remove pipeline fuel in each state. (See Section 7, "Consumption adjustments for calculating expenditures," at https://www.eia.gov/state/seds/seds-technical-notes-complete.php.)

The SEDS consumption estimates are for natural gas including supplemental gaseous fuels (SGF). SGF are introduced into or commingled with natural gas, and increase the volume available for disposition. Because SGF are mostly derived from fossil fuels, which are already accounted for in EIA's consumption data, SEDS removes SGF from total energy consumption in British thermal units (Btu) (see Sections 6 and 7 of the consumption technical notes) to eliminate any double counting. However, because there are no reliable data to estimate the price of SGF, SEDS does not remove SGF from the total energy expenditures estimates.

Residential, commercial, and industrial sectors

Physical unit prices: 1987 forward

All natural gas physical unit prices by state for the residential, commercial, and industrial sectors are taken from data collected on the Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition." Prices for deliveries to consumers are calculated using only "onsystem" sales data. The percentage of onsystem sales varies by state and by sector. In general, it is higher in the residential sector (see https://www.eia.gov/dnav/ng/ng_pri_sum_a_EPG0_VRX_pct_a.htm) and lower in the industrial sector (see https://www.eia.gov/dnav/ng/ng_pri_sum_a_EPG0_VFA_pct_a.htm).These prices are available on the U.S. Energy Information Administration's (EIA) website at https://www.eia.gov/naturalgas/data.php and published in the State Summaries tables of the EIA *Natural Gas Annual.*

Physical unit prices: 1970 through 1986

All natural gas physical unit prices for the residential, commercial, and industrial sectors are calculated from value and quantity of sales data from the *EIA Natural Gas Annual (*NGA*), Historical Natural Gas Annual (*HNGA*),* or its predecessor report, *Natural Gas Production and Consumption*. State prices are calculated directly from the data sources as average revenue per unit of sales by natural gas utilities. Prices for each of the three sectors are calculated by dividing the value of natural gas, reported in thousands of dollars, by the quantity of natural gas sold, as reported in million cubic feet.

For 1970 through 1979, both the value and quantity of sales data from the HNGA are reported as composites for Maryland and the District of Columbia, and for Maine, New Hampshire, and Vermont. In each case, the combined prices are assigned to each of the states in the composite.

Btu prices: all years

SEDS calculates state Btu prices for all years using the physical unit price series and the state-level average conversion factors for sectors other than electric power. The U.S. Btu price is the consumption-weighted average of the state Btu prices, adjusted for intermediate process fuel consumption in the industrial sector.

Data sources

Prices

1997 forward: EIA, *Natural Gas Annual*, State Summaries tables, also available at https://www.eia.gov/dnav/ng/ng_pri_sum_a_EPG0_PRS_DMcf_a.htm, https://www.eia.gov/dnav/ng/ng_pri_sum_a_EPG0_PCS_DMcf_a.htm, and https://www.eia.gov/dnav/ng/ng_pri_ sum_a_EPG0_PIN_DMcf_a.htm.

1989 through 1996: Residential and Commercial—EIA website, at https://www.eia.gov/dnav/ng/ng_pri_sum_a_EPG0_PRS_DMcf_a.htm and https://www.eia.gov/dnav/ng/ng_pri_sum_a_EPG0_PCS_DMcf_a.htm. Industrial—EIA, *Historical Natural Gas Annual, 1930 Through 2000*, https://www.eia.gov/naturalgas/annual/archive/, Tables 31 and 32.

1987 and 1988: EIA, *Historical Natural Gas Annual, 1930 Through 2000*, https://www.eia.gov/naturalgas/annual/archive/, Table 26 (residential), Table 28 (commercial), and Table 31 (industrial).

1980 through 1986: Calculated from quantity and value data published in the EIA *Natural Gas Annual, Volume 1*, Table 11 (1980), Table 14 (1981 through 1985), and Table 15 (1986). Comparable price data are available in the EIA *Historical Natural Gas Annual*, *1930 Through 2000,* Table 26 (residential), Table 28 (commercial), and Table 31 (industrial).

1970 through 1979: Calculated from quantity and value data published in the Bureau of Mines, U.S. Department of the Interior, *Natural Gas Production and Consumption*, Table 6 (1970 and 1979) and Table 7 (1971 through 1978). Comparable price data are available in the EIA *Historical Natural Gas Annual*, 1930 Through 2000, Table 26 (residential), Table 28 (commercial), and Table 31 (industrial).

Consumption

1970 forward: EIA, State Energy Data System, residential, commercial, and industrial natural gas consumption.

Conversion factors: all years

EIA, State Energy Data System, consumption technical notes, Appendix B. Data also available in CSV format at https://www.eia.gov/state/seds/sep_update/use_convfac_update.csv.

Transportation sector

Physical unit prices: all years

SEDS transportation sector natural gas prices are estimates of vehicle fuel, mostly compressed natural gas (CNG), excluding natural gas pipeline use. SEDS transportation sector natural gas consumption includes natural gas used to move natural gas through pipelines and a relatively small amount of vehicle fuel. SEDS considers fuels used for pipeline operations to be intermediate process fuels, and therefore we remove SEDS removes that consumption for the energy expenditures calculation. See discussion in Section 7, “Consumption adjustments for calculating expenditures,” at https://www.eia.gov/state/seds/seds-technical-notes-complete.php. Beginning in 1990, data for natural gas vehicle fuel use are available.

Before 1990, any natural gas used as vehicle fuel are included in the commercial sector. Much of the natural gas vehicle fuel data represent deliveries to fueling stations for fleet vehicles. For 1990 through 2012, SEDS natural gas vehicle fuel prices come from published data in EIA’s *Natural Gas Annual*, based on data collected from survey EIA-176. After 2012, EIA no longer publishes the vehicle fuel prices collected from survey EIA-176 because of data quality concerns.

For 2013 forward, SEDS estimates natural gas vehicle fuel prices using historical EIA natural gas vehicle fuel prices and compressed natural gas (CNG) price data from the U.S. Department of Energy’s Alternative Fuels Data Center (AFDC) quarterly *Clean Cities and Communities Alternative Fuel Price Reports*. To estimate, first SEDS calculates simple annual average CNG prices by state and by Petroleum Administration for Defense District (PADD) region using unpublished state data and published PADD region-level data, including taxes. Then, SEDS estimates its final state transportation sector natural gas vehicle prices by applying the annual average growth rate of the AFDC CNG price data to the previous year price, using the corresponding AFDC state data, when available, or PADD region data if no state data are available. Hawaii, Iowa, and South Dakota require special estimations because they have natural gas vehicle fuel consumption after 2012 and either lack 2012 EIA *Natural Gas Annual* prices or lack previous year SEDS price estimates. For Hawaii, SEDS assigns the commercial sector price to the transportation sector. For Iowa and South Dakota, SEDS assigns the average transportation sector price of the surrounding states (Illinois, Missouri, Minnesota, and Wisconsin for Iowa; Minnesota, Montana, North Dakota, and Wyoming for South Dakota).

For 1992 through 2012, SEDS assigns the average price of neighboring states for any state with missing vehicle fuel prices, as shown in Table TN3.1. The South Carolina price in 1998 is out of range and SEDS assigns it the Georgia price.

Btu prices: all years

SEDS calculates state Btu prices for all years using the physical unit price series and the state-level average conversion factors for sectors other than electric power. The U.S. Btu price is the vehicle fuel consumption-weighted average of the state Btu prices.

Table TN3.1. Natural gas vehicle fuel price assignments, 1992 through 2012

State	Year	State prices used
AK	1997–2012	WA
AL	2000–2005	FL, TN
	2006, 2007	FL, GA, TN
AR	2008–2011	OK, LA, MO, TN, TX
DE	1994	MD, NJ, PA
GA	1999	AL, FL, SC, TN
	2000–2005	FL, NC, SC, TN
HI	2005–2007	CA
IA	2001–2006	IL, MO, MN, WI
ID	2003–2005	MT, NV, OR, UT, WA, WY
KS	2004–2010	CO, MO, OK
KY	2004–2006	IL, IN, OH, MO, TN, VA
	2007–2012	IL, IN, MO, TN, VA
MD	2012	VA
ME	1992–2002, 2008–2012	MA
MI	2000–2006	IN, OH
	2007–2012	IN
MS	2002–2007	AR, LA, TN
	2008–2012	AL, LA, TN
NC	1996, 1997, 1999	SC, TN, VA
	1998	TN, VA
	2008	GA, SC, TN, VA
NE	1992, 1993	CO, IA, SD, WY
	1995–2000	CO, IA, KS, MO, SD, WY
	2001–2003	CO, KS, MO, WY
	2004–2006, 2008–2010	CO, MO, WY
	2007	CO, IA, MO, WY
NH	1996–2012	MA
NJ	2002	DE, NY, PA
	2007–2012	NY, PA
NM	1992, 1993, 2008	AZ, CO, OK, TX
OH	2007–2012	IN, PA
SC	1998	GA
SD	2001, 2003, 2004, 2006, 2010–2012	MN, MT, ND, WY
VT	1992–2012	MA
WV	2000–2011	MD
	2012	VA

Data sources

Prices

2013 forward: U.S. Department of Energy, Alternative Fuels Data Center, quarterly *Clean Cities and Communities Alternative Fuel Price Reports* Compressed Natural Gas (CNG) prices in gallons gasoline equivalent, including taxes. Unpublished state-level data. Published PADD region-level data from Table 5. https://afdc.energy.gov/publications?keyword=alternative%20fuel%20price%20report.

1990 through 2012: EIA, *Natural Gas Annual*, State Summaries tables, also available at https://www.eia.gov/dnav/ng/ng_pri_sum_a_EPG0_PDV_DMcf_a.htm. Comparable price data through 1996 are available in the *Historical Natural Gas Annual 1930 Through 2000*, https://www.eia.gov/naturalgas/annual/archive/, Table 34.

Consumption

1990 forward: EIA, State Energy Data System, natural gas vehicle consumption.

Conversion factors: all years

EIA, State Energy Data System, consumption technical notes, Appendix B. Data also available in CSV format at https://www.eia.gov/state/seds/sep_update/use_convfac_update.csv.

Table TN3.2. Natural gas electric power sector price assignments, 1973 forward

State	Years	Price source
AK	1973–1990	HNGA
	2008–2010	EIA-923 Sch 2 data
AL	2011, 2013–2023	EIA-923 Sch 2 data
AR	2011, 2013–2023	EIA-923 Sch 2 data
AZ	2011, 2016, 2017, 2019–2021	EIA-923 Sch 2 data
CA	2023	EIA-923 Sch 2 data
CO	2012, 2013, 2016–2023	EIA-923 Sch 2 data
CT	1974–1976	HNGA
	1973, 2000, 2001	C&Q, New England
	2003, 2004	MA, NY, RI
DC	2012	VA
	2016	MD
DE	2003–2007, 2011	MD, NJ, PA
	2008–2010	EIA-923 Sch 2 data
	2012–2023	NJ, PA
FL	2018, 2020, 2023	EIA-923 Sch 2 data
GA	2021, 2023	EIA-923 Sch 2 data
IA	2008–2011	EIA-923 Sch 2 data
ID	1983–1986	HNGA
	1974, 1987, 1996–2001	C&Q, Mountain
	2003–2005	NV, OR, WA, WY
	2006, 2007	NV, OR, WA
	2008–2014	EIA-923 Sch 2 data
IL	2011–2015, 2019–2020, 2023	EIA-923 Sch 2 data
IN	2011–2017	EIA-923 Sch 2 data
KY	2003–2005	IL, IN, OH, VA, WV
	2007	IL, IN, OH, VA
	2008–2023	EIA-923 Sch 2 data
LA	2011,2013–2015, 2017–2023	EIA-923 Sch 2 data
MD	1973, 1974, 1983–1985	HNGA
	2001	C&Q, South Atlantic
	2012	PA, VA
	2023	EIA-923 Sch 2 data
ME	1997–2001	C&Q, New England
	2005–2021, 2023	MA
	2022	EIA-923 Sch 2 data, New England
MN	2003–2007	IA, ND, WI
	2009–2023	EIA-923 Sch 2 data
MO	2003–2007	AR, IA, IL, KS, NE, OK
	2008–2021, 2023	EIA-923 Sch 2 data
	2022	EIA-923 Sch 2 data, West North Central
MS	2009–2023	EIA-923 Sch 2 data
MT	1997, 2006, 2007	C&Q, Mountain
	2003–2005	ND, WY
	2008–2023	EIA-923 Sch 2 data
NC	1983–1990	HNGA
	2005	GA, VA
	2006, 2007	GA, SC, VA
	2009–2017, 2023	EIA-923 Sch 2 data
ND	1973, 1974, 1976–1986	HNGA
	2008, 2009	EIA-923 Sch 2 data
NE	2008–2010	EIA-923 Sch 2 data
NH	1973, 1974, 1987–1989	HNGA
	1983, 1996, 1998	C&Q, New England
	2003, 2004	MA, ME
	2005–2007	MA, VT
	2008–2020	EIA-923 Sch 2 data
	2021–2023	EIA-923 Sch 2 data, New England
NM	2003–2007	AZ, CO, OK, TX
	2009–2012	EIA-923 Sch 2 data
NV	2013, 2014	EIA-923 Sch 2 data
OH	2011	EIA-923 Sch 2 data
OK	2011, 2014–2023	EIA-923 Sch 2 data
OR	1983, 1984, 1986, 1989, 1990	C&Q, Pacific
	2011–2023	EIA-923 Sch 2 data
PA	1973	HNGA
RI	1976, 1980	HNGA
	1999–2001	C&Q, New England
	2014, 2016	CT, MA
	2023	CT
SC	1977	HNGA
	2003, 2004	GA, NC
	2005	GA
	2009–2017	EIA-923 Sch 2 data
SD	1983–1990	HNGA
	1997, 1999–2001	C&Q, West North Central
	2005	GA
	2009, 2010	EIA-923 Sch 2 data
TN	1976, 1980, 1981, 1983, 1988–1996	HNGA
	1997–2001	C&Q, East South Central
	2003, 2004	AL, AR, GA, MS, NC, VA
	2005–2007	AL, AR, GA, MS, VA
	2008	EIA-923 Sch 2 data
UT	1988, 1989	HNGA
	2003–2005	AZ, CO, NV, WY
	2006, 2007	AZ, CO, NV
	2008–2011, 2014–2016	EIA-923 Sch 2 data
VA	2011, 2016	EIA-923 Sch 2 data
VT	1983–1985, 1989, 1990	HNGA
	1986	C&Q, New England
	2003, 2004, 2013–2021	MA, NY
	2022, 2023	NY
WA	1978, 1983–1985, 1988, 1989	HNGA
	1986, 1987, 1990, 1997, 1999–2001	C&Q, Pacific
	2002	OR
	2011–2023	EIA-923 Sch 2 data
WI	2014–2017, 2019, 2020, 2023	EIA-923 Sch 2 data
WV	2007	OH, MD, PA, VA
	2011, 2013–2018, 2021–2023	EIA-923 Sch 2 data
WY	2006, 2007	CO, NE
	2008–2023	EIA-923 Sch 2 data

Electric power sector

Physical unit prices: 2002 forward

All natural gas physical unit prices by state for the electric power sector are taken from the State Summaries tables of EIA's *Natural Gas Annual*. Before 2008, for any state with missing prices, SEDS assigns it the average price of all available surrounding states. For 2008 forward, SEDS uses the average delivered cost of natural gas to regulated electric power plants, compiled from Schedule 2 of Form EIA-923, "Power Plant Operations Report," to supplement missing *Natural Gas Annual* prices. If prices from both sources are not available, then SEDS uses the average price of all available surrounding states or region. Table TN3.2 lists the price assignments by state and year.

Physical unit prices: 1973, 1974, 1983 through 2001

Natural gas prices by state are reported in the EIA *Cost and Quality of Fuels for Electric Plants* (C&Q) for gas consumed at steam-electric plants only. Btu prices are taken from the C&Q, and converted from cents to dollars per million Btu.

Where individual state prices are unavailable from C&Q, they are developed from physical unit prices published in Tables 26 through 76 of the NGA (from 1997 forward), or the *Historical Natural Gas Annual, 1930 Through 2000* (HNGA, from 1987 through 1996). Physical unit prices prior to 1987 are calculated by dividing the value of natural gas, reported in thousands of dollars, by the quantity of natural gas sold, reported in million cubic feet.

Prices are not available from either C&Q or the NGA and HNGA for some years. In these cases, quantity-weighted Census division prices from C&Q are assigned. In addition, prices for Montana in 1997, Vermont in 1986, and Washington in 1986, 1987, 1990, and 1997 use quantity-weighted Census division prices from C&Q for more consistent prices than those available from the HNGA or more consistent with values in previous and later years. Table TN3.2 lists the states and years for which HNGA or C&Q Census division prices are used.

Physical unit prices: 1980 through 1982

State-level Btu and physical unit prices for 1980 through 1982 are taken from C&Q for all reporting plants. Physical unit prices are taken directly from the data source, while Btu prices are converted from cents to dollars per million Btu. Where individual state prices are unavailable from C&Q, they are computed from value and quantity of sales data from HNGA.

Table TN3.3. Tables from EIA *Cost and Quality of Fuels for Electric Plants* used as data sources, 1973 through 2001

Years	Price data	Volume data
1973, 1974	Table 10	Table 9
1975–1979	Table 10, 16	Table 9, 15
1980–1982	Table 48	–
1983, 1984	Table 53	–
1985–1987	Table 43	–
1988, 1989	Table 44	–
1990–1994	Table 12 (1994 edition)	–
1995–1996	Table 12 (1999 edition)	–
1997–2001	Table 12 (2001 edition)	–

Physical unit prices: 1973 through 1979

State-level prices are reported separately by C&Q for gas consumed at steam-electric plants and gas consumed at combustion turbine and internal combustion units. Weighted-average Btu prices are calculated by using the two C&Q prices and the respective gas deliveries for steam-electric and combustion use. Where individual state prices are unavailable from C&Q, they are computed from value and quantity of sales data from HNGA. For the New Hampshire price in 1977 a combined price is computed from value and quantity of sales data from the HNGA data for Maine, New Hampshire, and Vermont.

Physical unit prices: 1970 through 1972

State-level prices for 1970 through 1972 are taken from *Natural Gas Production and Consumption* and are calculated similarly to the way prices for the residential, commercial, and industrial sectors are calculated. Prices, as average revenue per unit of sales, are computed from value and quantity of sales data from the source reports. A combined price is reported for New Hampshire and Vermont for 1971 and 1972, and each of these states is assigned the combined price. State Btu prices are calculated from the physical unit prices by using the state-level electric power conversion factors.

U.S. prices: all years

The U.S. Btu prices are the consumption-weighted average of the state Btu prices.

Data sources

Prices

Primary sources:

2002 forward: EIA, *Natural Gas Annual*, State Summaries tables, also available at https://www.eia.gov/dnav/ng/ng_pri_sum_a_EPG0_PEU_DMcf_a.htm.

1973 through 2001: EIA, *Cost and Quality of Fuels for Electric Plants*, https://www.eia.gov/electricity/cost_quality/ (table numbers shown in Table TN3.3).

Secondary sources:

2008 forward: EIA Office of Energy Production, Conversion & Delivery, data on average delivered cost of natural gas to regulated electric power plants by State from EIA-923, "Power Plant Operations Report," https://www.eia.gov/electricity/data/eia923/, Schedule 2.

2002 through 2007: EIA, *Cost and Quality of Fuels for Electric Power Plants*, https://www.eia.gov/electricity/cost_quality/, Table 13.

1997 through 2001: EIA, *Natural Gas Annual*, State Summaries tables, also available at https://www.eia.gov/dnav/ng/ng_pri_sum_dcu_nus_a.htm.

1990 through 1996: EIA, *Historical Natural Gas Annual 1930 Through 2000*, https://www.eia.gov/naturalgas/annual/archive/, Table 31 and Table 32.

1980 through 1989: EIA, *Natural Gas Annual 1992, Volume 2*, Table 23.

1976 through 1979: EIA, Energy Data Reports, *Natural Gas Production and Consumption*, Table 7 (1976 through 1978) and Table 6 (1979). Comparable price data are available in the *Historical Natural Gas Annual, 1930 Through 2000*, Table 35.

1970 through 1975: Bureau of Mines, U.S. Department of the Interior, *Natural Gas Production and Consumption*, Table 6 (1970) and Table 7 (1971 through 1975). Comparable price data are available in the *Historical Natural Gas Annual, 1930 Through 2000*, Table 35.

Consumption

1970 forward: EIA, State Energy Data System, electric power sector natural gas consumption.

Conversion factors: all years

Btu prices that are calculated directly from *Cost and Quality of Fuels for Electric Plants (*C&Q*)*, or from EIA-923, "Power Plant Operations Report," require no conversion factors. When the *Natural Gas Annual* is the primary source, SEDS uses the natural gas thermal conversion factors for electric power consumption to calculate prices in Btu. The data are published in EIA's State Energy Data System, consumption technical notes, Appendix B and also available in CSV format at https://www.eia.gov/state/seds/sep_update/use_convfac_update.csv.

Section 4. Petroleum

Petroleum overview

All the petroleum products included in the State Energy Data System (SEDS) are explained in this section. SEDS describes the method for estimating 10 of these products in individual sections. The 10 petroleum products are:

- Asphalt and road oil
- Aviation gasoline
- Distillate fuel oil
- Hydrocarbon gas liquids
- Jet fuel
- Kerosene
- Lubricants
- Motor gasoline
- Petroleum coke
- Residual fuel oil

SEDS combines the remaining petroleum products in the category called "other petroleum products." Of the 12 "other petroleum products," SEDS develops prices for 6 products. All of these six products are used in the industrial sector:

- Miscellaneous products
- Petrochemical feedstocks, naphtha
- Petrochemical feedstocks, other oils
- Petrochemical feedstocks, still gas (1970-1985)
- Special naphthas
- Waxes

SEDS calculates expenditures for each petroleum product as the product of the price estimates and the SEDS consumption estimates. SEDS adjusts the consumption estimates to remove intermediate petroleum products. (See Section 7, "Consumption adjustments for calculating expenditures," at https://www.eia.gov/state/seds/seds-technical-notes-complete.php.) SEDS also estimates average prices and total expenditures for total petroleum.

Additional note

Beginning in the 2016 SEDS data cycle, "hydrocarbon gas liquids" (which covers propane, ethane, normal butane, isobutane, natural gasoline, propylene, ethylene, butylene, and isobutylene) replaces "liquefied petroleum gases" (which includes all hydrocarbon gas liquids except natural gasoline) as a petroleum product. SEDS revised the definition of "other petroleum products" to exclude petroleum coke and natural gasoline (formerly pentanes plus). SEDS reports petroleum coke as a separate product and includes natural gasoline in hydrocarbon gas liquids.

Asphalt and road oil

The State Energy Data System (SEDS) assumes that all asphalt and road oil consumption occurs in the industrial sector. Asphalt and road oil are used primarily for road construction. Other uses include waterproofing products, such as roofing and sealing. The SEDS prices are prices of asphalt binder or asphalt cement used in road construction. The prices do not include taxes because most street and highway paving is done under contract to state, county, and other public authorities who are typically exempt from paying taxes.

Physical unit prices: 2009 forward

SEDS develops asphalt physical unit prices for 2009 forward using individual state Department of Transportation data. SEDS calculates a simple average of the reported weekly or monthly prices to estimate the average annual price. For states that do not report prices, SEDS assigns simple average prices of neighboring states according to Table TN4.1. Arkansas does not have reported data for 2009 through 2015, and SEDS estimates the missing prices using the growth rates of the average Kentucky and Tennessee prices. Hawaii does not have reported data for 2009 through 2011, and SEDS estimates the missing prices using the growth rates of the average Alaska, Oregon, and Washington prices. Nebraska does not have reported data for 2009 through 2011, and SEDS estimates the missing prices using the growth rate of the South Dakota prices.

Physical unit prices: 1970 through 2008

SEDS develops physical unit prices using the simple average annual prices from monthly reports in the *Engineering News-Record*, published by McGraw-Hill, Inc. The source data include reports from 20 U.S. cities with prices for tank cars, drums, or both, for the three major types of asphalt products: asphalt cement (AC-20), asphalt emulsion (rapid set and slow set), and asphalt cutback.

For 1986 through 2008, SEDS uses the tank car price, or if it is not available, the drum price. For 1970 through 1985, SEDS uses a simple average of tank car and drum prices, or whichever one is available.

SEDS calculates simple average annual prices from the monthly prices for each city and assigns the city prices to the appropriate states. When a state has more than one city price, SEDS uses the simple average price of the cities. For states with no city prices, SEDS assigns the Census division simple average price, or if not available, another Census division price from the same Census region.

Table TN4.1. Asphalt and road oil price assignments, 2009 forward

State	State prices used in the estimation
CA	AK, OR, WA
CO	NM
DC	MD, VA
MI	IN, OH
MN	IA, KS, MO, NE, SD
ND	NE, SD
TX	KS, LA, OK
WI	IL, IN, OH

SEDS estimates state average asphalt prices as the quantity-weighted average prices of the three products for each state. For 1970 through 1980, SEDS uses quantity data from the Bureau of Mines and U.S. Energy Information Administration (EIA) reports on sales of asphalt. For 1981 forward, SEDS uses data from the Asphalt Institute's *Asphalt Usage Survey for the United States and Canada*.

For 1970 through 1982, asphalt and road oil are estimated as separate data series. SEDS estimates asphalt prices as discussed above. SEDS assumes road oil prices are equal to asphalt emulsion prices.

Btu prices: all years

For 2009 forward, SEDS converts asphalt prices, in dollars per short ton, to dollars per million Btu using the following factors: 5.5 barrels per short ton and 6.636 million Btu per barrel.

Before 2009, SEDS converts asphalt prices, in dollars per short ton, to dollars per gallon by dividing by 235 gallons per short ton for asphalt cement, 241 gallons per short ton for emulsion, and 248.6 gallons per short ton for cutback. These prices are then multiplied by 42 gallons per barrel and divided by 6.636 million Btu per barrel to get dollars per million Btu. SEDS converts road oil physical unit prices, in dollars per short ton, to dollars per million Btu using the constant conversion factors of 5.5 barrels per short ton and 6.636 million Btu per barrel. The average price of all asphalt and road oil is the consumption-weighted average of the individual product prices.

The U.S. Btu prices are the average of the state Btu prices, weighted by consumption data from SEDS.

Data sources

Prices

2009 forward: State Department of Transportation websites.

1970 through 2008: McGraw-Hill, Inc., *Engineering News-Record*, https://www.enr.com.

Quantities for calculating weighted average prices through 2008

1981 through 2008: Asphalt Institute, *Asphalt Usage Survey for the United States and Canada,* table titled "U.S. Asphalt Usage."

1977 through 1980: EIA, Energy Data Reports, *Sales of Asphalt* (1978-1980) and *Asphalt Sales, Annual* (1977), Table 2.

1970 through 1976: Bureau of Mines, U.S. Department of the Interior, Mineral Industry Survey, *Asphalt Sales, Annual* (1971-1976) and *Asphalt Shipments, Annual* (1970), Table 2.

Consumption

1970 forward: EIA State Energy Data System, industrial sector, asphalt and road oil consumption.

Conversion factors: all years

Conversion factors used are: 5.5 barrels per short ton of asphalt (2009 forward); 235 gallons per short ton of asphalt cement (1960-2008); 241 gallons per short ton of emulsion (1960-2008); 248.6 gallons per short ton of cutback (1960-2008); 42 gallons per barrel; 5.5 barrels per short ton of road oil; 6.636 million Btu per barrel.

Aviation gasoline

The State Energy Data System (SEDS) develops aviation gasoline price estimates for the transportation sector. SEDS uses its estimates of aviation gasoline consumption to calculate expenditure estimates. Aviation gasoline prices are national averages, excluding taxes. In all cases, physical unit prices are converted to Btu prices. Federal and state excise taxes, as well as state and local sales taxes, are not included.

Physical unit prices: 2022 forward

In 2021, the U.S. Energy Information Administration (EIA) discontinued its survey EIA-782 that provided aviation gasoline prices to end users and as a result the data are no longer available. For 2022 forward, SEDS estimates U.S.-level aviation gasoline prices with a multiple linear regression model, using historical SEDS aviation gasoline prices as the dependent variable and EIA premium gasoline retail prices and Refinitiv crude oil spot prices as the independent variables. SEDS assigns all states the same annual U.S.-level price.

Physical unit prices: 2008 through 2021

For 2008 through 2021, SEDS assumes aviation gasoline prices for all states are equal to the national average refiners sales prices to end users, published in EIA's *Petroleum Marketing Annual* (through 2009) and on the EIA website. For 2015 through 2019, EIA withholds the national average refiners sales price to end users. To estimate aviation gasoline prices, SEDS calculates EIA's annual U.S. aviation gasoline sales price for resale growth rate and applies it to the previous year's refiner sales price to end users.

Physical unit prices: 1976 through 2007

Aviation gasoline prices for 1978 through 2007 are assumed to be the national average refiners sales prices to end users published in EIA's *Annual Energy Review*. The 1976 and 1977 prices are assumed to be the national average retail prices published in EIA's *Monthly Energy Review*.

Physical unit prices: 1970 through 1975

For 1970 through 1975, aviation gasoline prices are not available in any source material. SEDS estimates aviation gasoline prices by dividing the national motor gasoline prices for those years by the 1976 national motor gasoline price and applying those percent changes to the 1976 national aviation gasoline price.

Btu prices: all years

SEDS calculates aviation gasoline Btu prices by converting the physical unit prices from dollars per gallon to dollars per barrel (42 gallons per barrel) and then to dollars per million Btu (5.048 million Btu per barrel).

Data sources

Prices

2022 forward:

- EIA, Form EIA-878 "Motor Gasoline Price Survey," U.S. premium all formulations retail gasoline prices, https://www.eia.gov/dnav/pet/PET_PRI_GND_A_EPMP_PTE_DPGAL_A.htm.
- Refinitiv, an LSEG business, as re-published on EIA's Petroleum & Other Liquids data website, Cushing, OK WTI crude oil spot price FOB, https://www.eia.gov/dnav/pet/hist/LeafHandler.ashx?n=PET&s=RWTC&f=A.
- EIA, historical SEDS estimates of U.S. aviation gasoline prices.

2010 through 2021:

- EIA, Petroleum & Other Liquids data website, Refiner Petroleum Product Prices by Sales Type, "End Users—Aviation Gasoline", https://www.eia.gov/dnav/pet/pet_pri_refoth_a_EPPV_PTG_dpgal_a.htm.
- If needed, EIA, Petroleum & Other Liquids data website, Refiner Petroleum Product Prices by Sales Type, "Resale—Aviation Gasoline", https://www.eia.gov/dnav/pet/pet_pri_refoth_a_EPPV_PWG_dpgal_a.htm.

2008, 2009: EIA, *Petroleum Marketing Annual,* https://www.eia.gov/oil_gas/petroleum/data_publications/petroleum_marketing_annual/pma.html, Petroleum chapter Table 32, row titled "Refiner Prices of Aviation Gasoline, Sales to End Users", also available at https://www.eia.gov/dnav/pet/pet_pri_refoth_dcu_nus_a.htm.

1978 through 2007: EIA, *Annual Energy Review,* https://www.eia.gov/totalenergy/data/annual/, Petroleum chapter Table 5.22 (1991-2007), Table 5.20 (1979-1990), and Table 5.21 (1978), row titled "Sales Prices to End Users: Aviation Gasoline." Also available at https://www.eia.gov/dnav/pet/pet_pri_refoth_dcu_nus_a.htm.

1976, 1977: EIA, *Monthly Energy Review*, April 1984, page 106, column titled "Aviation Gasoline, Retail."

1970 through 1975: EIA, *Annual Energy Review 1989*, Table 70, column titled "Motor Gasoline, Leaded Regular, Nominal."

Consumption

1970 forward: EIA, State Energy Data System, transportation sector, aviation gasoline consumption.

Conversion factor: all years

5.048 million Btu per barrel.

Distillate fuel oil

The State Energy Data System (SEDS) estimates distillate fuel oil prices for all sectors. SEDS uses its distillate fuel oil consumption estimates to calculate expenditure estimates for each sector. For the industrial sector expenditure calculations, SEDS adjusts the amount of industrial distillate fuel oil consumption to remove intermediate refinery fuels and avoid double counting. For the residential, commercial, and transportation sectors expenditure calculations, SEDS adjusts the amount of distillate fuel oil consumption to include the volumes of biodiesel and renewable diesel product supplied in those sectors, which are all assumed to be consumed as mixed with petroleum distillate fuel oil during end-use consumption. Therefore, all volumes of biodiesel and renewable diesel in those sectors are assigned distillate fuel oil prices for those sectors and included in the distillate fuel oil expenditures data. (See the discussion in Section 7, "Consumption adjustments for calculating expenditures," at https://www.eia.gov/state/seds/seds-technical-notes-complete.php.)

Residential sector

SEDS estimates residential distillate fuel oil prices using different data sources and estimation methods, depending on the year. In all years, SEDS first estimates physical unit prices by state. Then, SEDS converts the physical unit prices into Btu prices using the conversion factor. Residential distillate fuel oil prices are the retail prices paid by consumers for residential heating oil, including taxes.

Physical unit prices: 2019 forward

SEDS estimates residential distillate fuel oil prices using data from the U.S. Energy Information Administration's (EIA) *Heating Oil and Propane Update*. First, SEDS calculates a simple annual average price from the weekly heating oil price data for each available state and Petroleum Administration for Defense (PAD) district and subdistrict, as well as at the U.S. level. Then SEDS estimates state residential distillate fuel oil prices by applying the annual heating oil price growth rate to the previous year residential distillate fuel oil price estimate. If state-level prices are not available, SEDS assigns the corresponding PAD district or subdistrict growth rate. If PAD district- or subdistrict-level prices are not available, SEDS assigns the U.S. growth rate. SEDS adds state general sales taxes to the state estimates.

Physical unit prices: 2011 through 2018

EIA discontinued its survey that provided reseller and retailer sales prices for distillate fuel oil by sales type, Form EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report," in 2011. As a result, data for distillate prices by sales type, which are based on survey forms EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B are no longer available. To estimate residential distillate fuel oil prices, SEDS develops regression equations for each Petroleum Administration for Defense (PAD) district and subdistrict. SEDS uses historical refiner residential sales prices for No. 2 fuel oil and No. 2 diesel fuel from EIA-782A as the independent variables and the historical residential distillate fuel oil prices as the dependent variable. SEDS uses these regression equations to estimate the current residential distillate fuel oil prices for the PAD districts and subdistricts and for states that have refiner residential prices, historical refiner/reseller/retailer prices, and sizable sales volume—AK, MA, NH, NY, PA, and VT. SEDS assigns the corresponding PAD district or subdistrict prices to all other states. See Figure TN3 in "Introduction," at https://www.eia.gov/state/seds/sep_prices/notes/pr_intro.pdf. SEDS adds state general sales taxes to the state estimated prices.

For 2013 through 2018, refiners' prices for PAD subdistricts 1A and 1B are not available and SEDS estimates them by applying the growth rate of U.S. refiners' price to the previous year's subdistrict prices. Refiners' prices for states other than Alaska are also not available and SEDS assigns the corresponding PAD district or subdistrict estimated price to those states.

Physical unit prices: 1997 through 2010

For 1997 through 2009, physical unit distillate fuel oil prices in cents per gallon (excluding taxes) are generally available for 23 states from the U.S. Energy Information Administration (EIA) *Petroleum Marketing Annual* (PMA). State-level prices for the states without PMA prices are estimated by using the PMA Petroleum Administration for Defense (PAD) district or subdistrict prices. The estimation procedures are described below and include the addition of state general sales taxes.

1. State prices are generally available from the PMA for the following 23 states: AK, CT, DE, ID, IL, IN, MA, MD, ME, MI, MN, NH, NJ, NY, OH, OR, PA, RI, VA, VT, WA, WI, and WV. Prices for these states are converted from cents to dollars per gallon, and state general sales taxes from the U.S. Census Bureau and successor sources are added.
2. States that do not have prices in the PMA are assigned a PMA

PAD district or subdistrict price, and state general sales taxes are added. For 2003 through 2008, the PAD District 3 residential price is withheld in the PMA and the PAD District 3 average distillate retail sales price is used instead. The states that are assigned PAD district or subdistrict prices are shown in Table TN4.2.

For 2010, PMA is no longer available, but the same set of physical unit prices in dollars per gallon (excluding taxes) are available on the EIA website.

Physical unit prices: 1983 through 1990 and 1992 through 1996

For 1983 through 1990 and 1992 through 1996, physical unit distillate fuel oil prices in cents per gallon (excluding taxes) are generally available for 23 states from the U.S. Energy Information Administration (EIA) *Petroleum Marketing Annual* (PMA). For 1989 through 1993, prices represent No. 2 fuel oil, only. For 1994 forward, prices include other No. 2 distillates. State-level prices for the states without PMA prices are estimated by using price data from the American Gas Association (AGA), SEDS consumption data, and PMA Petroleum Administration for Defense (PAD) district or subdistrict prices. The estimation procedures are described below and include the addition of state general sales taxes.

1. State prices are generally available from the PMA for the following 23 states: AK, CT, DE, ID, IL, IN, MA, MD, ME, MI, MN, NH, NJ, NY, OH, OR, PA, RI, VA, VT, WA, WI, and WV. Prices for these states are converted from cents to dollars per gallon, and state general sales taxes from the U.S. Census Bureau and successor sources are added.

2. For the states that do not have prices in the PMA, prices are estimated by using AGA fuel oil prices, SEDS consumption data, and PMA PAD district or subdistrict prices. The following steps are used to estimate the prices:
   a. Distillate prices from the PMA for PAD districts or subdistricts are converted from cents per gallon to dollars per gallon.
   b. For 1983 through 1990 and 1992 through 1996, the AGA lists fuel oil prices by company for the principal city served in dollars per million Btu, including state sales taxes. A simple average of the city-level prices is used to derive a state-level price for each of the states without PMA prices for these years.
   c. The AGA state prices derived in step 2b are combined into PAD district or subdistrict averages by using SEDS consumption to weight each state's values. This procedure gives AGA consumption-weighted average prices for PAD districts and subdistricts comparable to the volume-weighted prices published in the PMA. The AGA PAD district and subdistrict averages are calculated by using only the available states; if a state does not appear in the survey, it is not included in the PAD district or subdistrict calculation.
   d. Adjustment factors, ratios of the PMA PAD district or subdistrict price divided by the AGA-derived PAD district or subdistrict price, are calculated.

Table TN4.2. Distillate fuel oil residential sector PAD district and subdistrict price assignments, 1983 through 1990 and 1992 through 2010

State	Years	Assignments
AL	1997–2010	District 3
AR	1988, 1993–2010	District 3
AZ	1992–2010	District 5
CA	1984, 1992–2010	District 5
CO	1997–2010	District 4
DC	2000, 2002–2010	Subdistrict 1B
FL	1993, 1997–2010	Subdistrict 1C
GA	1996–2010	Subdistrict 1C
HI	1983–1990, 1992–2010	District 5
IA	1997–2010	District 2
IL	1986	District 2
KS	1986, 1989, 1996–2010	District 2
KY	1997–2010	District 2
LA	1986, 1996–2010	District 3
MI	2000, 2001	District 2
MO	1997–2010	District 2
MS	1983, 1985, 1986, 1995–2010	District 3
MT	1994, 1995, 1997–2010	District 4
NC	1997–2010	Subdistrict 1C
ND	1994, 1995, 1997–2010	District 2
NE	1996–2010	District 2
NM	1984–1990, 1992–2010	District 3
NV	1994, 1995, 1997–2010	District 5
OK	1986, 1989, 1990, 1992, 1993, 1995–2010	District 2
SC	1997–2010	Subdistrict 1C
SD	1986, 1995–2010	District 2
TN	1997–2010	District 2
TX	1992–1995, 1997–2010	District 3
UT	1985, 1995, 1997–2010	District 4
WY	1994, 1997–2010	District 4

e. Prices for the states not published in the PMA are calculated by multiplying the AGA state prices derived in step 2b by the appropriate PAD district or subdistrict adjustment factor from step 2d and then adding state general sales taxes.
f. States that do not have prices in either the PMA or the AGA are assigned a PMA PAD district or subdistrict price, and state general sales taxes are added. The states with assigned PAD district or subdistrict prices are as shown in Table TN4.2.

Physical unit prices: 1991

Physical unit distillate fuel oil prices in cents per gallon (excluding taxes) are available for 24 states from the PMA. Because prices are not available from AGA for 1991, state-level prices for the remaining 27 states are estimated by using physical unit prices derived for 1990 in SEDS and the 1991 PMA PAD district or subdistrict prices. The estimation procedures, including the addition of state general sales taxes, are described as follows:

1. State prices are available from the PMA for the following 24 states: AK, CT, DC, DE, ID, IL, IN, MA, MD, ME, MI, MN, NH, NJ, NY, OH, OR, PA, RI, VA, VT, WA, WI, and WV. Prices for these states are converted from cents to dollars per gallon, and state general sales taxes from the U.S Census Bureau's *State Government Tax Collections* (SGTC) are added.
2. For the remaining 27 states that do not have prices in the PMA, prices are estimated by using the 1990 SEDS physical unit prices and PMA PAD district or subdistrict prices for 1990 and 1991. The following steps are used to estimate the prices:
   a. For 1990, the Subdistrict 1C price is withheld in the PMA and the average of the VA and WV prices is used as the Subdistrict 1C price.
   b. The 1990 state prices derived from AGA and PMA, as described below, are adjusted by the percentage change in the 1990 and 1991 prices for each state's PMA PAD district or subdistrict.
   c. The state general sales taxes from SGTC are added.

Physical unit prices: 1978 through 1982

Procedures for the 1978 through 1982 period are similar to those for 1983 forward except for changes in data sources. Annual physical unit prices are either taken directly from the *Monthly Energy Review* (MER) or calculated from monthly regional price data, also from the MER. These data were collected on Form EIA-9A (formerly EIA Form 9 and FEA Form P112-M-1) and include taxes. Price data from *Platt's Oil Price Handbook and Oilmanac (Platt's)* and SEDS consumption data for 1978 through 1982 are used to compute state prices when only regional data are available. These calculations are described step-by-step below.

1. Annual state physical unit prices are generally available from the MER for the same 23 states covered by the PMA in 1983 and forward. These 23 states compose all of Federal Regions 1, 2, 3, 5, and 10 (see Figure TN2 in "Introduction," at https://www.eia.gov/state/seds/sep_prices/notes/pr_intro.pdf). Prices for these states exclude taxes and are converted to dollars per gallon.
2. Of the states without MER prices, the 22 in Federal Regions 4, 7, 8, and 9 have annual prices estimated from the monthly federal regional prices published in the MER. No regional prices are available for Federal Region 6 for the 1978 through 1982 period, and some monthly prices are missing in regions 7, 8, and 9 in 1980, 1981, and 1982.
   a. Missing monthly prices for federal regions are estimated with assigned prices as follows: the Region 9 November 1980 price is assigned to December 1980; an average of the Region 7 July and October 1982 prices is assigned to August and September 1982; an average of Region 8 June and September 1982 prices is assigned to July and August 1982; and an average of Region 3 August and October 1982 prices is assigned to September 1982. Imputation of missing Region 6 prices for 1978 through 1982 and missing Region 9 prices for 1981 and 1982 is discussed later.
   b. The simple average of monthly state-level normal heating degree day data is averaged for all the states within each of the 10 federal regions and is used to estimate average federal region heating degree days. AK, DC, and HI are assigned the monthly heating degree days from MN, MD, and FL, respectively.
   c. Weighted average annual physical unit distillate prices for the residential sector are calculated for Federal Regions 4, 7, 8, and 9 (except for Region 9 in 1981 and 1982) by using the regional normal heating degree days and the monthly regional prices from the MER.
   d. In 1981, only March and May prices are available for Federal Region 9. To estimate the average annual price for this region, the relationship between the U.S. annual heating oil price (from the MER) and the U.S. March and May prices is expressed as a ratio and is used with the Region 9 March and May prices to estimate the 1981 annual Region 9 price.
   e. City-level prices from *Platt's* are assigned to states as shown in Table TN4.3 The assigned state-level *Platt's* prices for states are

Table TN4.3. Platt's prices for No. 2 fuel assigned to states, 1970 through 1982

State	Years	Assigned city or state prices	State	Years	Assigned city or state prices	State	Years	Assigned city or state prices
AK	1970–1976	Los Angeles/San Francisco, CA	KY	1970	Baton Rouge/New Orleans, LA			Columbus/Dayton
	1977, 1978	Portland, OR		1971–1982	New Orleans, LA		1973–1982	Detroit, MI
	1979, 1980	Seattle, WA	LA	1970	Baton Rouge/New Orleans	OK	1970–1982	Oklahoma (Group 3)
	1981, 1982	Seattle-Tacoma/Spokane, WA		1971–1982	New Orleans	OR	1970–1976	Los Angeles/San Francisco, CA
AL	1970–1974	Birmingham/Mobile/Montgomery	MA	1970–1982	Boston		1977–1982	Portland
	1975–1977	Mobile/Birmingham	MD	1970–1982	Baltimore	PA	1970–1978	Philadelphia
	1978–1982	Birmingham	ME	1970–1982	Portland		1979–1982	Philadelphia/Pittsburgh
AR	1970–1982	Arkansas	MI	1970–1982	Detroit	RI	1970–1975	Providence
AZ	1970–1978	Los Angeles/San Francisco, CA	MN	1970–1982	Minneapolis-St. Paul		1976–1982	New Haven, CT
	1979–1982	Phoenix	MO	1970	Baton Rouge/New Orleans, LA	SC	1970–1975	Charleston/Spartanburg/Belton
CA	1970–1982	Los Angeles/San Francisco		1971–1973	New Orleans, LA		1976–1982	Charleston/Spartanburg
CO	1970–1976	Minneapolis-St. Paul, MN		1974–1982	St. Louis	SD	1970–1982	Minneapolis-St. Paul, MN
	1977–1982	Denver	MS	1970–1973	Greenville/Meridian	TN	1970–1973	Chattanooga
CT	1970–1982	New Haven		1974–1982	New Orleans, LA		1974–1982	New Orleans, LA
DC	1970–1982	Baltimore, MD	MT	1970–1976	Minneapolis-St. Paul, MN	TX	1970–1972	New Mexico-West Texas
DE	1970–1982	Baltimore, MD		1977–1982	Billings		1973–1978	New Orleans, LA
FL	1970–1972	Jacksonville/Miami/Tampa/	NC	1970–1973	Greensboro/Wilmington/Charlotte/		1979, 1980	Houston
		Pensacola/Panama City/Port			Salisbury/Selma		1981	Dallas-Fort Worth/Houston
		Everglades		1974, 1975	Greensboro/Wilmington/Charlotte		1982	Amarillo/Corpus Christi/Dallas Fort
	1973	Miami/Tampa/Pensacola		1976–1982	Greensboro/Wilmington			Worth/Houston
	1974, 1975,	Miami/Tampa	ND	1970–1982	Minneapolis-St. Paul, MN	UT	1970–1976	Minneapolis-St. Paul, MN
	1981, 1982		NE	1970	Baton Rouge/New Orleans, LA		1977–1982	Salt Lake City
	1976–1980	Miami		1971–1973	New Orleans, LA	VA	1970–1973	Norfolk/Roanoke
GA	1970–1973	Atlanta/Savannah/Albany/Athens/		1974–1982	St. Louis, MO		1974–1982	Norfolk
		Bainbridge/Columbus/Macon	NH	1970–1982	Portland, ME	VT	1970–1982	Portland, ME
	1974–1982	Atlanta/Savannah	NJ	1970–1975	New York/Albany/Buffalo, NY	WA	1970–1976	Los Angeles/San Francisco, CA
HI	1970–1982	Los Angeles/San Francisco, CA		1976–1982	New York/Albany, NY		1977, 1979,	Seattle
IA	1970–1981	Chicago, IL	NM	1970–1972	New Mexico-West Texas		1980	
	1982	Des Moines		1973–1976	Los Angeles/San Francisco, CA		1978	Portland, OR
ID	1970–1976	Los Angeles/San Francisco, CA		1977–1980	Albuquerque		1981, 1982	Seattle-Tacoma/Spokane
	1977–1982	Portland, OR		1981, 1982	Albuquerque/Farmington	WI	1970–1982	Chicago, IL
IL	1970–1982	Chicago	NV	1970–1982	Los Angeles/San Francisco, CA	WV	1970–1973	Norfolk/Roanoke, VA
IN	1970–1982	Chicago, IL	NY	1970–1975	New York/Albany/Buffalo		1974–1982	Norfolk, VA
KS	1970–1973	Los Angeles/San Francisco, CA		1976–1982	New York/Albany	WY	1970–1976	Minneapolis-St, Paul, MN
	1974–1982	St. Louis, MO	OH	1970–1972	Toledo/Cleveland/Zanesville/		1977–1982	Cheyenne

consumption-weighted into federal regions by using residential sector consumption data from SEDS.

f. Adjustment factors, ratios of the regional MER distillate prices to the regional *Platt's*-based distillate prices, are calculated for Federal Regions 4, 7, 8, and 9 (except for 1982).
g. Because there are no monthly regional distillate prices from the MER for Federal Region 6 for 1978 through 1982 and Federal Region 9 for 1982, the adjustment factors for these regions are based on the adjustment factors for previous time periods. The Region 6 adjustment factor for each of the years in the 1978 through 1982 period is equal to 1.1313, which is the average of the adjustment factor for the West South Central Census Division for 1976 and 1977. The Region 9 adjustment factor for 1982 is equal to 1.1995, which is the average adjustment factor for Region 9 from 1978 through 1981.
h. The residential sector distillate state prices for the 27 states in Federal Regions 4, 6, 7, 8, and 9 are calculated by multiplying the regional adjustment factors for each year and the state-level assigned *Platt's* prices.

Physical unit prices: 1975 through 1977

For the years 1975 through 1977, no state-level data are available, and regional data from Form EIA-9A are available only at the Census division level, except for federal region prices for November and December of 1977. Using a methodology similar to that described above for the allocation of regional data to states, adjustment factors are calculated at the regional level and applied to *Platt's* price data assigned to states. The resulting prices implicitly include average regional taxes but do not reflect individual state differences.

1. Monthly regional price data for 1975 and 1976 are reported in the MER only for Census divisions. In 1977, however, monthly price data are reported for Census divisions for January through October and for federal regions for November and December. The federal region prices for November and December are assigned to their respective states and reaggregated into Census divisions to create a consistent set of monthly Census division prices for 1977. Annual residential sector distillate consumption data from SEDS are used to do the reaggregation.

2. The Census division monthly price data from the MER for 1975, 1976, and the first 10 months of 1977 are used with the estimated Census division price data for November and December 1977 to estimate state-level prices.

a. Missing monthly prices in the East South Central Division for June and November 1975 and the Mountain Division for March and July 1975 are estimated by using an average of the prices for the month preceding and the month following the missing month. Missing November and December West South Central Division prices in 1977 are estimated with the assignment of the October price to both months. No monthly price data are available for the West South Central Division in 1975; step 2f., below, discusses how the calculations are handled for this division.
b. The monthly state-level normal heating degree day data are averaged for the states within each Census division to estimate regional monthly heating degree days. AK, DC, and HI are assigned the monthly heating degree days from MN, MD, and FL, respectively.
c. Weighted average annual distillate prices for Census divisions are calculated by using the monthly Census division price data from the MER and the normal heating degree days estimated for Census divisions.
d. City-level No. 2 fuel oil refinery and terminal prices from *Platt's* for 1975 through 1977 are assigned to states as shown in Table TN4.3. The assigned *Platt's* prices for states are consumption-weighted into Census divisions by using residential sector consumption data from SEDS.
e. Adjustment factors are calculated as the ratios of the MER distillate Census division prices to the *Platt's* distillate Census division prices.
f. Because there are no 1975 MER price data for the West South Central Division from which to calculate an adjustment factor, the 1975 adjustment factor for this region is assumed to be equal to the simple average of the West South Central adjustment factors for 1976 and 1977 (i.e., 1.1313).
g. The residential sector distillate state prices for all states are calculated by multiplying the regional adjustment factors for each year by the state-level assigned *Platt's* prices.

Physical unit prices: 1970 through 1974

There are no regional or state-level distillate fuel oil price data directly available for the 1970 through 1974 period. To estimate state prices, regional average prices are first derived from the relationship between U.S. prices and federal region prices for 1975 through 1980. State prices are then estimated from the regional prices by using a methodology similar to that described for 1978 through 1982. The resulting prices implicitly include average regional taxes but do not reflect individual state

differences.

1. The first step in the estimation of residential distillate prices for the 1970 through 1974 time period is to develop an equation that uses U.S. prices to estimate prices for federal regions. Regression techniques are used for this purpose. U.S. prices for 1975 through 1980 from the *Annual Energy Review* (AER) are used as the independent variable for developing the equation; annual federal region prices are used as the dependent variable. Federal region prices for 1978 through 1980 are calculated above, but MER prices for 1975 through 1977 are for Census divisions. To convert these annual Census division prices into federal region prices, the estimated state prices for 1975 through 1977 are aggregated into federal regions by using SEDS consumption data.
2. Regression techniques are applied to the pooled federal region price data (dependent variable) and the U.S. prices from the AER (independent variable) for 1975 through 1980. U.S. prices for 1970 through 1974 are input to estimate annual federal region prices for 1970 through 1974.
3. City-level prices from *Platt's* for 1970 through 1974 are assigned to states as shown in Table TN4.3. The assigned state-level *Platt's* prices are consumption-weighted into federal regions by using residential sector distillate consumption data from SEDS.
4. Adjustment factors, which are ratios of the regional MER distillate federal region prices to the *Platt's*-based distillate federal region prices, are calculated.
5. The residential sector distillate prices for all states are calculated by multiplying the regional adjustment factors for each year by the state-level assigned *Platt's* prices.

Btu prices: all years

First, SEDS converts the physical unit prices, in dollars per gallon, to dollars per barrel (42 gallons per barrel). Then SEDS converts the prices to Btu prices, in dollars per million Btu, using the conversion factors calculated by EIA and presented in SEDS consumption technical notes, Table B1. SEDS calculates U.S. Btu prices as the average of the state Btu prices, weighted by SEDS consumption data.

Data sources

Prices

2019 forward: Weekly residential heating oil price data from EIA's *Heating Oil and Propane Update*, https://www.eia.gov/petroleum/heatingoilpropane/#itn-tabs-2.

2011 through 2018: Unpublished price data from EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

2010: EIA, Petroleum & Other Liquids data website, No. 2 Distillate Prices by Sales Type, https://www.eia.gov/dnav/pet/pet_pri_dist_a_EPD2_PRT_dpgal_a.htm.

1983 through 2009: EIA, *Petroleum Marketing Annual 1985*, Volume 1, Table 25 (1983-1985) and annual issues of the *Petroleum Marketing Annual*, https://www.eia.gov/oil_gas/petroleum/data_publications/petroleum_marketing_annual/pma_historical.html, Table 36 (1986-1988), Table 38 (1989-1993), Table 39 (1994-2006), and Table 35 (2007-2009), column titled "Sales to End Users—Residential Consumers."

1983 through 1990, 1992 through 1996: AGA, *Residential Natural Gas Market Survey* (1989, 1990, 1992-1996), and *Gas Househeating Survey* (1983-1988), Appendix titled, "Competitive Fuel Prices," column titled "Distillate."

1970 through 1982: McGraw-Hill, Inc., *Platt's Oil Price Handbook and Oilmanac*, refinery and terminal prices for No. 2 fuel oil, average of highs and lows.

1975 through 1982: National Oceanic and Atmospheric Administration, U.S. Department of Commerce, *State, Regional, and National Monthly and Seasonal Heating Degree-Days Weighted by Population (1980 Census)*, Historical Climatology Series 5-1, table titled "1951-80 State Pop. Wgt'd Heating Degree-Days."

1975 through 1982: EIA, *Monthly Energy Review,* table titled "Residential Heating Oil Prices by Region," February 1978, page 67 (1975, 1976); April 1980, page 83 (1977, 1978); July 1982, page 87 (1979-1982).

1970 through 1982: EIA, *Annual Energy Review 1988*, Table 67, "Motor Gasoline and Residential Heating Oil Prices, 1949-1988."

Taxes

For 1992 forward, SEDS calculates an annual average general sales tax for each state as a simple average of the 12 monthly values. This method takes into account tax changes during the year. Before 1992, SEDS uses the September 1st state general sales tax for each year.

For 2009, the Federation of Tax Administrators did not publish state general sales tax data, but did publish state general sales tax data for 2010. Therefore, the 2009 tax rates were estimated by comparing

the Federation of Tax Administrators' 2008 and 2010 rates for each respective state. If no change occurred between 2008 and 2010, it has been assumed the rate remained constant in 2009. If a rate did change between those years, the State Department of Revenue was consulted to determine the effective date of the rate change to be used in the 2009 estimates accordingly.

1996 forward: Federation of Tax Administrators, https://www.taxadmin.org/current-tax-rates.

1995: The Council of State Governments, *The Book of the States 1994-95* and *1996-97*, Table 6.21.

1994: U.S. Advisory Committee on Intergovernmental Relations, *Significant Features of Fiscal Federalism,* Tables 14 and 26.

1993: Census Bureau, U.S. Department of Commerce, *State Tax Review*, Volume 54, No. 31, map titled "State Gasoline, Sales and Cigarette Tax Rates as of July 1, 1993."

1983 through 1992: Census Bureau, U.S. Department of Commerce, *State Government Tax Collections*, table titled "State Government Excises on General Sales, Motor Fuel, and Cigarettes, Beginning and End of Fiscal Year," column "Percentage rate, Sept. 1."

Consumption

1970 forward: EIA, State Energy Data System, residential sector distillate consumption.

Conversion factors: all years

1970 forward: EIA, State Energy Data System, consumption technical notes, Table B1.

Commercial sector

SEDS estimates commercial sector distillate fuel oil prices using different data sources and estimation methodologies, depending on the year. For 2022 forward, SEDS estimates commercial distillate prices using state-level regression equations. For 2011 through 2021, SEDS estimates commercial distillate prices using regional-level regression equations (see below). For 1983 through 2009, SEDS uses retail prices paid by commercial/institutional establishments (excluding taxes) for No. 2 distillate fuel oil from EIA's *Petroleum Marketing Annual* (PMA). For 2010 through 2021, PMA is no longer available, but the same set of physical unit prices, in dollars per gallon (excluding taxes), are available on the EIA website. SEDS adds state general sales taxes from the U.S. Census Bureau and successor sources. For 1970 through 1982, SEDS estimates commercial distillate prices based on refinery and terminal (wholesale) prices from *Platt's* and markups from Fostor Associates, Inc. *Energy Prices*: 1960-73 that include taxes. SEDS converts from physical unit prices to Btu prices using the conversion factor.

Physical unit prices: 2022 forward

For 2022 forward, EIA suspended its survey EIA-782 that provided the data and no physical unit prices are available, so SEDS estimates prices using regression equations. The regression equation for each state uses the historical SEDS commercial price for 2010 through 2021 as the Y dependent variable and the appropriate regional Refinitv Ultra-Low Sulfur No. 2 Diesel (ULSD) spot price as the X independent variable. SEDS assigns each Petroleum Administration for Defense District (PADD) region to its closest Refinitiv ULSD spot price—PADDs 1A and 1B use New York Harbor; PADDs 1C, 3, and 4 use the Gulf Coast; PADD 2 uses Chicago; and PADD 5 uses Los Angeles. After the regression output, SEDS adds state general sales taxes.

Physical unit prices: 2011 through 2021

EIA discontinued its survey that provided reseller and retailer sales prices for distillate fuel oil by sales type, Form EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report," in 2011. As a result, data for distillate prices by sales type, which are based on survey forms EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B are no longer available. To estimate commercial distillate fuel oil prices, SEDS develops regression equations for each Petroleum Administration for Defense (PAD) district and subdistrict. SEDS uses historical refiner commercial sales prices for No. 2 diesel fuel from EIA-782A as the independent variable and the historical commercial distillate fuel oil prices as the dependent variable. SEDS uses these regression equations to estimate the current commercial distillate fuel oil prices for the PAD districts and subdistricts and for states that have historical refiner/reseller/retailer prices and sizable sales volume—AK, CT, DE, ID, IL, IN, MA, MD, MI, MN, NH, NJ, NY, OH, OR, PA, VA, VT, WA, WI, and WV. For 2019 through 2021, an independent variable in the equation for PAD Subdistrict 1A price is missing. SEDS estimates it by applying the U.S. growth rate to the previous year PAD Subdistrict 1A price. SEDS assigns the corresponding PAD district or subdistrict prices to all other states, as shown in Table TN4.4. SEDS adds state general sales taxes to the state estimated prices.

Table TN4.4. Distillate fuel oil commercial sector PAD district and subdistrict price assignments, 1983 through 2021

States	Years	Assignments	States	Years	Assignments
AK	2019, 2020	District 5	MS	1983–2021	District 3
AL	1983–2021	District 3	MT	1983–2021	District 4
AR	1983–2021	District 3	NC	1983–2021	Subdistrict 1C
AZ	1983–2021	District 5	ND	1983–2021	District 2
CA	1983–2021	District 5	NE	1983–2021	District 2
CO	1983–2021	District 4	NH	2015–2021	Subdistrict 1A
CT	2014–2021	Subdistrict 1A	NJ	2019, 2020	Subdistrict 1B
DC	2011–2021	Subdistrict 1B	NM	1983–2021	District 3
DE	2019, 2020	Subdistrict 1B	NV	1983–2021	District 5
FL	1983–2021	Subdistrict 1C	NY	2019, 2020	Subdistrict 1B
GA	1983–2021	Subdistrict 1C	OH	2019, 2020	District 2
HI	1983–2021	District 5	OK	1983–2021	District 2
IA	1983–2021	District 2	OR	2019, 2020	District 5
IL	2019, 2020	District 2	RI	2011–2021	Subdistrict 1A
IN	2019, 2020	District 2	SC	1983–2021	Subdistrict 1C
KS	1983–2021	District 2	SD	1983–2021	District 2
KY	1983–2021	District 2	TN	1983–2021	District 2
LA	1983–2021	District 3	TX	1983–2021	District 3
MA	2018–2021	Subdistrict 1A	UT	1983–2021	District 4
MD	2018–2021	Subdistrict 1B	VT	2019, 2020	Subdistrict 1A
ME	2011–2021	Subdistrict 1A	WI	2019, 2020	District 2
MI	2019, 2020	District 2	WV	2019, 2020	Subdistrict 1C
MO	1983–2021	District 2	WY	1983–2021	District 4

Physical unit prices: 1983 through 2010

Physical unit No. 2 distillate prices in dollars or cents per gallon (excluding taxes) are generally available for 24 states. State-level prices for the remaining 27 states are estimated by using the Petroleum Administration for Defense (PAD) district or subdistrict prices as shown in Table TN4.4. State general sales taxes are then added.

Physical unit prices: 1970 through 1982

Commercial sector distillate physical unit prices for 1970 through 1982 are calculated by using *Platt's* prices assigned to states and commercial sector markups estimated from *Energy Prices: 1960-73*. The resulting estimates implicitly include state-specific taxes.

1. The first step is to compute the markups. *Energy Prices* contains single price estimates for small commercial users and two price estimates for large commercial users for 10 cities: Boston, MA; Albany, NY; New York, NY; Charlotte, NC; Washington, DC; Chicago, IL; Detroit MI; Minneapolis/St. Paul, MN; St. Louis, MO; and Seattle, WA. First, a simple average of the two large commercial prices is calculated for each city except for Albany and New York. In this case, all four large commercial prices are averaged together, because cities are assigned to their respective states.
2. For the nine states covered by the Energy Prices data (noted in step 1), the markup of the reported prices from Energy Prices over the assigned Platt's prices (Table TN4.3) and the markup of the residential prices calculated above for 1970 through 1972 over the Platt's prices is calculated.
3. At this point, residential and commercial sector retail markups have been computed for nine states for each of the years 1970 through 1972. The next step is to calculate the average retail markup for the 3-year period for each sector. A simple average of the markup ratios is calculated.
4. The average commercial and residential sector retail markups for

Table TN4.5. Distillate fuel oil commercial sector average retail markup price assignments, 1970 through 1972

State	City price assignments	State	City price assignments
AK	Seattle, WA	MT	Minneapolis-St. Paul, MN
AL	Charlotte, NC	NC	Charlotte, NC
AR	St. Louis, MO	ND	Minneapolis-St. Paul, MN
AZ	Seattle, WA	NE	St. Louis, MO
CA	Seattle, WA	NH	Boston, MA
CO	Minneapolis-St. Paul, MN	NJ	Albany and New York, NY
CT	Boston, MA	NM	Seattle, WA
DC	Washington, DC	NV	Seattle, WA
DE	Washington, DC	NY	Albany and New York, NY
FL	Charlotte, NC	OH	Detroit, MI
GA	Charlotte, NC	OK	St. Louis, MO
HI	Seattle, WA	OR	Seattle, WA
IA	St. Louis, MO	PA	Albany and New York, NY
ID	Seattle, WA	RI	Boston, MA
IL	Chicago, IL	SC	Charlotte, NC
IN	Chicago, IL	SD	Minneapolis-St. Paul, MN
KS	St. Louis, MO	TN	Chicago, IL
KY	Chicago, IL	TX	St. Louis, MO
LA	St. Louis, MO	UT	Minneapolis-St. Paul, MN
MA	Boston, MA	VA	Washington, DC
MD	Washington, DC	VT	Boston, MA
ME	Boston, MA	WA	Seattle, WA
MI	Detroit, MI	WI	Chicago, IL
MN	Minneapolis-St. Paul, MN	WV	Washington, DC
MO	St. Louis, MO	WY	Minneapolis-St. Paul, MN
MS	Charlotte, NC		

the nine available states are assigned, as shown in Table TN4.5.

5. To translate the average commercial and residential markups for 1970 through 1972 into the estimated commercial sector retail markups to be used for 1970 through 1982, the relationship between these two markups is used, with the residential markups calculated for all states for each year. The calculation of the residential markups follows the same procedure used in step 2.
6. The commercial sector adjustment factors for each state for each of the years 1970 through 1982 are multiplied by the corresponding *Platt's* prices for 1970 through 1982 to calculate the final commercial sector physical unit prices.

Btu prices: all years

First, SEDS converts the physical unit prices, in dollars per gallon, to dollars per barrel (42 gallons per barrel). Then SEDS converts the prices to Btu prices, in dollars per million Btu, using the conversion factors calculated by EIA and presented in SEDS consumption technical notes, Table B1. SEDS calculates U.S. Btu prices as the average of the state Btu prices, weighted by SEDS consumption data.

Data sources

Prices

2022 forward: Regression equations using historical SEDS commercial prices and Refinitiv, an LSEG business, New York Harbor Ultra-Low

Sulfur No. 2 Diesel (ULSD) spot price https://www.eia.gov/dnav/pet/hist/LeafHandler.ashx?n=PET&s=EER_EPD2DXL0_PF4_Y35NY_DPG&f=A, U.S. Gulf Coast ULSD spot price https://www.eia.gov/dnav/pet/hist/LeafHandler.ashx?n=PET&s=EER_EPD2DXL0_PF4_RGC_DPG&f=A, Los Angeles ULSD CARB spot price https://www.eia.gov/dnav/pet/hist/LeafHandler.ashx?n=PET&s=EER_EPD2DC_PF4_Y05LA_DPG&f=A as republished on the EIA website, and unpublished Chicago ULSD spot price.

2011 through 2021: Unpublished price data from EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

2010: EIA, Petroleum & Other Liquids data website, No. 2 Distillate Prices by Sales Type, https://www.eia.gov/dnav/pet/pet_pri_dist_a_EPD2_PCS_dpgal_a.htm.

1983 through 2009: EIA, *Petroleum Marketing Annual 1985, Volume 1,* Table 25 (1983-1985) and annual issues of the *Petroleum Marketing Annual*, https://www.eia.gov/oil_gas/petroleum/data_publications/petroleum_marketing_annual/pma_historical.html, Table 36 (1986-1988), Table 38 (1989-1993), Table 39 (1994-2006), and Table 35 (2007-2009), column titled "Sales to End Users—Commercial/Institutional Consumers."

1970 through 1982: McGraw-Hill, Inc., *Platt's Oil Price Handbook and Oilmanac*, refinery and terminal prices for No. 2 fuel oil, average of highs and lows.

1970 through 1982: Foster Associates, Inc., 1974, *Energy Prices 1960-73*, Tables 4-c and 5-b.

Taxes

For 1992 forward, SEDS calculates an annual average general sales tax for each state as a simple average of the 12 monthly values. This method takes into account tax changes during the year. Before 1992, SEDS uses the September 1st state general sales tax for each year.

For 2009, the Federation of Tax Administrators did not publish state general sales tax data, but did publish state general sales tax data for 2010. SEDS estimated the 2009 tax rates by comparing the Federation of Tax Administrators' 2008 and 2010 rates for each state. If no change occurred between 2008 and 2010, SEDS assumes the rate remained constant in 2009. If a rate did change between those years, SEDS consulted the State Department of Revenue to determine the effective date of the rate change.

1996 forward: Federation of Tax Administrators, https://www.taxadmin.org/current-tax-rates.

1995: The Council of State Governments, *The Book of the States 1994-95* and *1996-97*, Table 6.21.

1994: U.S. Advisory Committee on Intergovernmental Relations, *Significant Features of Fiscal Federalism,* Tables 14 and 26.

1993: Census Bureau, U.S. Department of Commerce, *State Tax Review*, Volume 54, No. 31, map titled "State Gasoline, Sales and Cigarette Tax Rates as of July 1, 1993."

1983 through 1992: Census Bureau, U.S. Department of Commerce, State Government Tax Collections, table titled "State Government Excises on General Sales, Motor Fuel, and Cigarettes, Beginning and End of Fiscal Year," column "Percentage rate, Sept. 1."

Consumption

1970 forward: EIA, State Energy Data System, commercial sector distillate consumption.

Conversion factors: all years

1970 forward: EIA, State Energy Data System, consumption technical notes, Table B1.

Electric power sector

SEDS estimates the price of distillate fuel oil used for electric power as the average delivered cost of No. 2 distillate fuel oil receipts at electric plants. For 1973 through 2009, SEDS takes these prices directly from EIA's *Cost and Quality of Fuels for Electric Plants Report* (C&Q). For 2010 forward, C&Q is no longer available, but data on the cost of distillate fuel oil delivered to the electric utilities are available from EIA's Office of Energy Production, Conversion & Delivery (EPCD). For 1970 through 1972, SEDS uses prices from Edison Electric Institute's *Statistical Yearbook of the Electric Utility Industry* with regression analysis. The data sources provide Btu prices that include all applicable taxes.

Prices: 1973 forward

Contiguous 48 states

EIA produces Btu prices for 1973 forward. For 1973, 1974, and 1980 forward, SEDS converts the Btu prices from cents per million Btu to dollars per million Btu. For 1975 through 1979, SEDS calculates consumption-weighted average Btu prices from prices and consumption reported separately for steam-electric plants and for combustion turbine

Table TN4.6. Distillate fuel oil electric plant Census division price assignments, 1973 forward

State	Years	Census division
AK	2013, 2014	Pacific Noncontiguous
CA	1983–1985, 1987, 1988	Pacific
	1990–1992, 1995–1997, 2002, 2007,	Pacific Contiguous
	2013–2023	
CO	1996–1998	Mountain
CT	1973, 2000–2007, 2011, 2013–2023	New England
DC	1973, 2002–2012	South Atlantic
DE	1973, 2006, 2007, 2011–2023	South Atlantic
HI	2002–2004	Pacific Contiguous
	2005–2007	Pacific Noncontiguous
ID	1973, 1974, 1976, 1980–2009, 2011–2023	Mountain
MA	2011	New England
MD	1973, 2002–2007, 2011–2023	South Atlantic
ME	1973, 1974, 1999–2007, 2011–2023	New England
MT	1973–1975, 1977, 1983, 2000, 2001,	Mountain
	2007, 2012–2020, 2023	
NH	1973, 1974, 2021–2023	New England
NJ	1973, 1974, 2011–2023	Middle Atlantic
NM	2023	Mountain
NV	2007	Mountain
NY	2002	Middle Atlantic
OK	2011	West South Central
OR	1987, 1988	Pacific
	1996, 2018, 2020–2022	Pacific Contiguous
PA	2007, 2011–2023	Middle Atlantic
RI	1976–1994, 1997–2007, 2011–2023	New England
SD	1973, 1974, 1992, 1994, 1995,	West North Central
	1997–2002, 2007	
TN	1973	East South Central
VT	1973, 1974, 1978, 1983–1992, 1999,	New England
	2001–2004, 2006, 2007, 2009, 2011,	
	2013–2023	
WA	1973–1977	Pacific
	2002–2005, 2007	Pacific Contiguous
WV	1973	South Atlantic
WY	1973	Mountain

and internal combustion units. Wherever individual state prices are unavailable, SEDS assigns the corresponding quantity-weighted Census division price, as shown in Table TN4.6.

Alaska

The source provides Alaska Btu prices for 2005, 2006, 2008 through 2012, and for 2015 forward. For 2013 and 2014, SEDS assigns the corresponding quantity-weighted Census division price, as shown in Table TN4.6. For 1994 through 2010, SEDS estimates the missing prices as the consumption-weighted averages of prices reported by power plants in FERC Form 1, Form EIA-412 (1994-2000), and the Alaska Energy Authority's *Statistical Report of the Power Cost Equalization Program*.

Prior to 1994, SEDS estimates prices as the product of the annual Alaska-to-U.S. price ratio from the *Statistical Yearbook* and the C&Q U.S. price. The *Statistical Yearbook* doesn't have Alaska prices for 1973, 1975, and 1978. SEDS estimates the prices using the following average Alaska-to-U.S. price ratios in adjacent years. The 1973 estimated price is based on the average ratio for 1972 and 1974, the 1975 price is based on the average ratio for 1974 and 1976, and the 1978 price is based on the average ratio for 1977 and 1979. SEDS applies the average ratio to the U.S. C&Q price for each missing year.

Hawaii

The C&Q does not have prices for Hawaii from 1973 through 1982, 1992 through 1996, and 2002 through 2007. Table TN4.6 shows the price assignments for 2002. For 1994 through 1996, SEDS estimates prices as the consumption-weighted averages of prices reported by power plants in FERC Form 1 and Form EIA-412.

Prior to 1994, SEDS estimates prices as the product of the annual Hawaii-to-U.S. price ratio from the *Statistical Yearbook* and the C&Q U.S. price.

U.S. prices

SEDS calculates the U.S. Btu prices for all years as the average of the state Btu prices, weighted by SEDS consumption data.

Prices: 1970 through 1972

Btu prices for 1970 through 1972 are estimated by using data from *Statistical Yearbook of the Electric Utility Industry*. U.S. prices are then computed by using the state-level prices and the electric utility distillate consumption data from SEDS.

1. Regression techniques are used to arrive at the equation for estimating electric utility sector distillate prices for the 1970 through 1972 period. Alabama is treated as the reference state. The regression equation uses *Statistical Yearbook* state-level prices for 1974 through 1980 as the independent variable and the

state-level prices calculated above for 1974 through 1980 as the dependent variable. Substituting Btu prices for 1970 through 1972 from the *Statistical Yearbook* into the regression equation yields the estimated electric utility sector state-level distillate prices.

2. Wherever individual state prices are unavailable, quantity-weighted Census division prices are assigned as follows: ID in 1970 through 1972; TN in 1970; and WA in 1970 and 1971. AK in 1971 is calculated as the average of the AK price in 1970 and 1972.
3. U.S. Btu prices are calculated as the average of the state Btu prices, weighted by consumption data from SEDS.

Data sources

Prices

2010 forward: EIA, Office of Energy Production, Conversion & Delivery, data on average delivered cost of distillate fuel oil to regulated electric power plants.

1973 through 2009: EIA, *Cost and Quality of Fuels for Electric Plants*, https://www.eia.gov/electricity/cost_quality/, Table 6 (1973, 1974); Tables 5, 6, 12, 13 (1975-1979); Table 45 (1980-1982); Table 51 (1983, 1984); Table 41 (1985-1989); Table 14 (1990, 1991); Table 8 (1992-2000), Table 9 (2001), Table 7.B (2002 and 2003), Table 7.A (2004-2008), and Table 11 (2009).

1994 through 2004, 2007 (Alaska), and 1994 through 1996 (Hawaii): EIA, unpublished prices reported by electric power plants in AK and HI on FERC Form 1, "Annual Report of Major Electric Utilities, Licensees, and Others,"; Form EIA-412, "Annual Electric Industry Financial Report" (previously, "Annual Report of Public Electric Utilities,") https://www.eia.gov/electricity/data/eia412/ (1994-2000), and Alaska's *Statistical Report of the Power Cost Equalization Program*, https://www.akenergyauthority.org/What-We-Do/Power-Cost-Equalization/PCE-Reports-Publications.

1970 through 1993: Edison Electric Institute, *Statistical Yearbook of the Electric Utility Industry*, table titled, "Analysis of Fuel for Electric Generation-Total Electric Utility Industry" (1970-1988) and table titled, "Fossil Fuels Used for Electric Generation Total Electric Utility Industry" (1990-1993).

Consumption

1970 forward: EIA, State Energy Data System, electric power sector distillate consumption.

Conversion factors: all years

The data sources provide Btu prices for all states, except for Alaska for 1994 through 2004. SEDS uses the conversion factor of 5.825 million Btu per barrel in these instances.

Industrial sector

SEDS estimates industrial sector distillate fuel oil prices using different data sources and estimation methods, depending on the year. For 2022 forward, SEDS estimates industrial distillate prices using state-level regression equations. For 2011 through 2021, SEDS estimates industrial distillate fuel oil prices using regional-level regression equations (see below). For 1983 through 2009, SEDS uses prices of No. 2 distillate fuel oil (excluding taxes) from EIA's *Petroleum Marketing Annual* (PMA). For 2010 through 2021, PMA is no longer available, but the same set of physical unit prices, in dollars per gallon (excluding taxes), are available on the EIA website. SEDS adds state general sales taxes from the U.S. Census Bureau and successor sources. For 1970 through 1982, SEDS estimates prices as the average cost of distillate to manufacturing firms, which include taxes.

Physical unit prices: 2022 forward

For 2022 forward, EIA suspended its survey EIA-782 that provided the data and no physical unit prices are available, so SEDS estimates prices using regression equations. The regression equation for each state uses the historical SEDS industrial price for 2010-2021 as the Y dependent variable and two X independent variables—the appropriate regional Refinitv Ultra-Low Sulfur No. 2 Diesel (ULSD) spot price and the U.S. Cost of Distillate Fuel Receipts at Electric Generating Plants. SEDS assigns each Petroleum Administration for Defense District (PADD) region to its closest Refinitiv ULSD spot price—PADDs 1A and 1B use New York Harbor; PADDs 1C, 3, and 4 use the Gulf Coast; PADD 2 uses Chicago; and PADD 5 uses Los Angeles. After the regression output, SEDS adds state general sales taxes.

Physical unit prices: 2011 through 2021

EIA discontinued its survey that provided reseller and retailer sales prices for distillate fuel oil by sales type, Form EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report," in 2011. As a result, data for distillate prices by sales type, which are based on survey forms EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B are no longer available. To estimate industrial

Table TN4.7. Distillate fuel oil industrial sector PAD district and subdistrict price assignments, 1983 through 2021

State	Years	Assignments	State	Years	Assignments
AK	2019, 2020	District 5	MT	1983–2021	District 4
AL	1983–2021	District 3	NC	1983–2004, 2007–2021	Subdistrict 1C
AR	1983–2021	District 3		2005, 2006	District 1
AZ	1983–2021	District 5	ND	1983–2021	District 2
CA	1983–2021	District 5	NE	1983–2021	District 2
CO	1983–2021	District 4	NH	2011–2021	Subdistrict 1A
CT	2011–2021	Subdistrict 1A	NJ	2015–2020	Subdistrict 1B
DC	1994, 1997–2001, 2003–2021	Subdistrict 1B	NM	1983–2021	District 3
DE	2018–2020	Subdistrict 1B	NV	1983–2021	District 5
FL	1983–2004, 2007–2021	Subdistrict 1C	NY	1987, 2017, 2019, 2020	Subdistrict 1B
	2005, 2006	District 1	OH	1983, 2011–2021	District 2
GA	1983–2004, 2007–2021	Subdistrict 1C	OK	1983–2021	District 2
	2005, 2006	District 1	OR	2011–2021	District 5
HI	1983–2021	District 5	PA	2019, 2020	Subdistrict 1B
IA	1983–2021	District 2	RI	2003, 2011–2021	Subdistrict 1A
ID	2019, 2020	District 4	SC	1983–2004, 2007–2021	Subdistrict 1C
IL	2005, 2006	District 2		2005, 2006	District 1
IN	2019, 2020	District 2	SD	1983–2021	District 2
KS	1983–2021	District 2	TN	1983–2021	District 2
KY	1983–2021	District 2	TX	1983–2021	District 3
LA	1983–2021	District 3	UT	1983–2021	District 4
MA	2010–2021	Subdistrict 1A	VA	2014–2020	Subdistrict 1C
MD	2014–2020	Subdistrict 1B	VT	2011–2021	Subdistrict 1A
ME	1997, 2011–2021	Subdistrict 1A	WA	2016, 2019, 2020	District 5
MI	2001, 2011–2021	District 2	WI	2011–2021	District 2
MO	1983–2021	District 2	WV	2011–2021	Subdistrict 1C
MS	1983–2021	District 3	WY	1983–2021	District 4

distillate fuel oil prices, SEDS develops regression equations for each Petroleum Administration for Defense (PAD) district and subdistrict. SEDS uses historical refiner industrial sales prices for No. 2 diesel fuel and No. 2 fuel oil from EIA-782A as the independent variables and the historical industrial distillate fuel oil prices as the dependent variable. SEDS uses these regression equations to estimate the current industrial distillate fuel oil prices for the PAD districts and subdistricts and for states that have historical refiner/reseller/retailer prices and sizable sales volume—AK, DE, ID, IL, IN, MD, MN, NJ, NY, PA, VA, and WA. Occasionally but more common since 2019, the independent variables in some PAD District 1 subdistricts are missing. SEDS estimates them by applying the PAD District 1 growth rate (when available) or the U.S. growth rate to the previous year subdistrict prices. SEDS assigns the corresponding PAD district or subdistrict prices to all other states, as shown in Table TN4.7. SEDS adds state general sales taxes to the state estimated prices.

Physical unit prices: 1983 through 2010

Physical unit distillate fuel oil prices in dollars or cents per gallon (excluding taxes) are generally available for 24 states. State-level prices for the remaining 27 states are estimated by using the Petroleum Administration for Defense (PAD) district or subdistrict prices, as shown in Table TN4.7, state general sales taxes are then added.

In 2000, the PAD District 4 average industrial sector price was withheld in the PMA. PAD District 4 commercial and industrial sector prices for 1995 through 1999 were compared and the average percentage difference between the sectors' prices was applied to the 2000 commercial sector PAD District 4 price to derive an industrial sector PAD District 4 price.

Physical unit prices: 1982

In 1984, the U.S Census Bureau announced that state-level fuel cost and quantity information would no longer be published in either the *Annual Survey of Manufactures* (ASM) or *Census of Manufactures* (CM). In addition, the PMA, the source for 1983 forward industrial sector distillate price data, did not contain 1982 prices. Because of this lack of price data,

Table TN4.8. Distillate industrial sector price assignments, 1974 through 1981

State	Year	State prices used
HI	1979–1981	CA
ND	1979–1981	MN, MT, SD
NM	1974–1979	AZ, CO, TX
NV	1974–1981	AZ, CA, ID, OR, UT
OK	1974–1978	AR, CO, KS, MO, TX
WY	1974–1981	CO, ID, MT, NE, SD, UT

the 1982 industrial sector distillate prices are estimated on the basis of the relationship of industrial sector prices to electric power sector prices for 1978 through 1981. The 1983 prices are not used in the estimation because they exclude taxes, while the 1978 through 1981 prices include taxes.

1. To calculate the average ratios of industrial-to-electric power distillate prices, electric power sector price assignments are made for: AK in 1978 through 1982 from WA; ID in 1979 through 1982 from MT; RI in 1978 through 1982 from CT; and VT in 1978 from ME.
2. The average 1978 through 1981 ratios of industrial-to-electric power sector distillate prices are calculated for each state.
3. Prices for 1982 are estimated by multiplying the average ratios by the electric power data for 1982.

Physical unit prices: 1971, 1974 through 1981

For the years 1971 and 1974 through 1981, industrial sector distillate prices are calculated directly from cost and quantity data from the *Annual Survey of Manufactures* (ASM) or *Census of Manufactures* (CM) for all states where data are available. Taxes are included in the prices. There are no missing prices for 1971. Six states are missing some ASM cost and quantity data for the 1974 through 1981 period. Cost and quantity data for these states are estimated as the simple average of the cost and quantity data for their adjacent states. The states, the years for which data are estimated, and the adjacent states used to make the estimation are shown in Table TN4.8.

Physical unit prices: 1970, 1972, 1973

Because ASM and CM data are not available for these years, the prices must be estimated. Physical unit prices are based on the ratio of 1971 CM prices to the 1971-assigned *Platt's* prices (Table TN4.3). The resulting ratios for each state are used with the *Platt's* assigned prices for 1970, 1972, and 1973 to impute prices.

1. The first step is to calculate state-level ratios between prices calculated from the 1971 CM cost and quantity data and the 1971 assigned *Platt's* prices. There are no missing states in either of these two sets of prices.
2. State-level physical unit prices for 1970, 1972, and 1973 are estimated by multiplying the 1971 ratio by the assigned state-level *Platt's* prices for each respective year.

Btu prices: all years

First, SEDS converts the physical unit prices, in dollars per gallon, to dollars per barrel (42 gallons per barrel). Then SEDS converts the prices to Btu prices, in dollars per million Btu, using the conversion factors calculated by EIA and presented in SEDS consumption technical notes, Table B1. SEDS calculates U.S. Btu prices as the average of the state Btu prices, weighted by SEDS consumption data that have been adjusted for process fuel consumption.

Data sources

Prices

2022 forward: Regression equations using historical SEDS industrial price estimates; EIA-923 U.S. cost of distillate fuel receipts at electric generating plants, as published in EIA's *Monthly Energy Review* Table 9.9 https://www.eia.gov/totalenergy/data/browser/index.php?tbl=T09.09#/?f=A&start=1973&end=2022&charted=3; and Refinitiv, an LSEG business, New York Harbor Ultra-Low Sulfur No. 2 Diesel (ULSD) spot price https://www.eia.gov/dnav/pet/hist/LeafHandler.ashx?n=PET&s=EER_EPD2DXL0_PF4_Y35NY_DPG&f=A, U.S. Gulf Coast ULSD spot price https://www.eia.gov/dnav/pet/hist/LeafHandler.ashx?n=PET&s=EER_EPD2DXL0_PF4_RGC_DPG&f=A, Los Angeles ULSD CARB spot price https://www.eia.gov/dnav/pet/hist/LeafHandler.ashx?n=PET&s=EER_EPD2DC_PF4_Y05LA_DPG&f=A as republished on the EIA website, and unpublished Chicago ULSD spot price.

2011 through 2021: Unpublished price data from EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

2010: EIA, Petroleum & Other Liquids data website, No. 2 Distillate Prices by Sales Type, https://www.eia.gov/dnav/pet/pet_pri_dist_a_EPD2_pin_dpgal_a.htm.

1983 through 2009: EIA, *Petroleum Marketing Annual 1985, Volume 1,*

Table 25 (1983-1985), and annual issues of the *Petroleum Marketing Annual*, https://www.eia.gov/oil_gas/petroleum/data_publications/petroleum_marketing_annual/pma_historical.html, Table 36 (1986-1988), Table 38 (1989-1993), Table 39 (1994-2006), and Table 35 (2007-2009), column titled "Sales to End Users—Industrial Consumers."

1970 through 1982: McGraw-Hill, Inc., *Platt's Oil Price Handbook and Oilmanac,* refinery and terminal prices for No. 2 fuel oil, average of highs and lows.

1971, 1977, and 1981: Census Bureau, U.S. Department of Commerce, *Census of Manufactures,* Table 4 (1971) and Table 3 (1977, 1981).

1974 through 1976 and 1978 through 1980: Census Bureau, U.S. Department of Commerce, *Annual Survey of Manufactures,* Table 3.

Taxes

For 1992 forward, SEDS calculates an annual average general sales tax for each State as a simple average of the 12 monthly values. This method takes into account tax changes during the year. Before 1992, SEDS uses the September 1st state general sales tax for each year.

For 2009, the Federation of Tax Administrators did not publish state general sales tax data but did publish state general sales tax data for 2010. SEDS estimated the 2009 tax rates by comparing the Federation of Tax Administrators' 2008 and 2010 rates for each state. If no change occurred between 2008 and 2010, SEDS assumes the rate remained constant in 2009. If a rate did change between those years, SEDS consulted the State Department of Revenue to determine the effective date of the rate change.

1996 forward: Federation of Tax Administrators, https://www.taxadmin.org/current-tax-rates.

1995: The Council of State Governments, *The Book of the States 1994-95 and 1996-97,* Table 6.21.

1994: U.S. Advisory Committee on Intergovernmental Relations, *Significant Features of Fiscal Federalism,* Tables 14 and 26.

1993: Census Bureau, U.S. Department of Commerce, *State Tax Review,* Volume 54, No. 31, map titled "State Gasoline, Sales and Cigarette Tax Rates as of July 1, 1993."

1983 through 1992: Census Bureau, U.S. Department of Commerce, *State Government Tax Collections,* table titled "State Government Excises on General Sales, Motor Fuel, and Cigarettes, Beginning and End of Fiscal Year," column "Percentage rate, Sept. 1."

Consumption

1970 forward: EIA, State Energy Data System, industrial sector distillate consumption.

Conversion factors: all years

1970 forward: EIA, State Energy Data System, consumption technical notes, Table B1.

Transportation sector

Consumption of distillate fuel oil in the transportation sector includes distillate fuel oil for on-highway, vessel bunkering, military, and railroad use. Because on-highway diesel fuel use accounts for the largest portion of this sector, SEDS estimates transportation sector distillate fuel oil prices using diesel fuel prices.

For 2011 forward, SEDS estimates physical unit transportation sector distillate fuel oil prices for states other than Alaska and Hawaii using retail prices of ultra-low sulfur diesel from Form EIA-888, "*On-Highway Diesel Fuel Price Survey*." For 1986 to 2010, SEDS estimates prices using sales to end users through retail outlets from EIA's *Petroleum Marketing Annual* (PMA). For 1983 to 1985, SEDS estimates prices using sales to end users through retail outlets, from the PMA, and agricultural prices from the Crop Reporting Board, U.S. Department of Agriculture, *Agriculture Prices* publication. Before 1983, SEDS estimates prices using agricultural prices from the *Agriculture Prices* publication.

Through 2010, SEDS adds state and federal excise taxes on diesel fuel to the PMA prices. In cases where the tax rate is not constant throughout the year, SEDS estimates an annual average tax using monthly rates. Due to the lack of uniformity in application, SEDS doesn't include state sales taxes in the price estimates through 2009. In 2010, SEDS adds sales taxes for California, Georgia, Illinois, Indiana, Michigan, New York, and Virginia (states identified by EIA's *Petroleum Marketing Monthly* (PMM) that charge state sales taxes on diesel) to their price estimates to make them more compatible to the Form EIA-888 retail prices for ultra-low sulfur diesel prices. For 2011 forward, SEDS assumes all taxes are included in the Form EIA-888 retail prices.

For all years, SEDS calculates Btu prices using the physical unit prices and the distillate fuel oil conversion factor.

Physical unit prices: 2011 forward

For 2011 forward, SEDS estimates diesel fuel physical unit prices using Form EIA-888, which provides retail diesel prices for each Petroleum Administration for Defense (PAD) district and subdistrict as well as for the state of California. For each state except California, Hawaii, and Alaska, SEDS estimates the physical unit price as the product of the 2010 state price and the corresponding district or subdistrict growth rate since 2010. SEDS directly uses the California price from Form EIA-888. For Hawaii, SEDS estimates diesel prices using monthly data available from Hawaii's Department of Business, Economic Development & Tourism website. For Alaska, SEDS estimates diesel prices as the product of the average 2001 through 2010 Alaska-to-U.S. price ratio and the Form EIA-888 U.S. price.

Physical unit prices: 2000 through 2010

Diesel fuel physical unit prices for 2000 through 2010 are based on the annual state-level price data available from the PMA and on the EIA website for approximately 23 states, and monthly tax rate information from the EIA *Petroleum Marketing Monthly* (PMM) for every state.

State and federal diesel tax rates are taken from Table EN1 of PMM. EIA updates this table twice a year, reporting the tax rates on January 1 and July 1. Changes to tax rates that occur in between those months will not be reflected until the next update. To compile the average tax rates for the year, information on the effective date of rate changes is collected from additional sources. These include State Department of Revenue offices, the U.S. Department of Defense, Defense Energy Support Center, annual report entitled *Compilation of United States Fuel Taxes, Inspection Fees and Environmental Taxes and Fees*, and the U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics* report. They are combined with the federal tax rate to adjust the PMA prices.

For the remaining states for which no prices are published, the PAD district or subdistrict prices for diesel fuel and motor gasoline and state motor gasoline prices are used. The state diesel fuel price is estimated as the ratio of the PAD district or subdistrict diesel fuel price to the PAD district or subdistrict motor gasoline price times the state motor gasoline price. This assumes that the relationship between the state and PAD district or subdistrict prices for diesel fuel is similar to that of the state and PAD district or subdistrict prices for motor gasoline. The series for motor gasoline physical unit prices is based on the average annual sales prices (excluding taxes) of finished motor gasoline to end users through retail outlets contained in Table 28 of the PMA or at https://www.eia.gov/dnav/pet/pet_pri_allmg_a_EPM0_PTC_dpgal_a.htm. This series reflects data collected from refiners, resellers, and retailers in the industry, and provides more comprehensive coverage than the series previously used, which reflected data collected from refiners only. State and federal excise taxes are added as described above.

Physical unit prices: 1986 through 1999

Diesel fuel physical unit prices for 1986 through 1999 are based on the annual state-level price data available from the PMA for approximately 23 states and monthly tax rate information from *Highway Statistics*. State and federal excise taxes on diesel fuel are added to PMA prices to derive final physical unit prices.

For the remaining states for which no prices are published, the PMA PAD district or subdistrict prices for diesel fuel and motor gasoline and state motor gasoline prices are used. The state diesel fuel price is estimated as the ratio of the PAD district or subdistrict diesel fuel price to the PAD district or subdistrict motor gasoline price times the state motor gasoline price. Motor gasoline prices to end users at all refiners' company outlets are used. When a state has no price available in either data series, the motor gasoline price to end users by all types of sellers through company outlets is used as the state motor gasoline price. The District of Columbia has no published diesel fuel or motor gasoline prices for 1991-1999, 2001, and 2003 forward and is assigned the Maryland diesel fuel price. State and federal excise taxes are added as described above.

Physical unit prices: 1983 through 1985

Diesel fuel physical unit prices for 1983 through 1985 are based on the annual state-level price data available from the PMA and monthly state and federal tax rate information from *Highway Statistics* for 24 states. The prices for the remaining 27 states are calculated by using *Agricultural Prices* as outlined in the 1977 through 1982 methodology.

The PMA provides physical unit prices for approximately 24 states, excluding taxes. In 1983 through 1985, the DC price is missing, and the MD price is assigned. In 1983, RI has no price and the PAD Subdistrict 1A average is assigned. A simple average of monthly state and federal excise taxes is calculated as a combined average tax and added to the PMA price for a final physical unit price. State and local sales and other general taxes are not included.

Physical unit prices: 1977 through 1982

Monthly prices from *Agricultural Prices* and monthly special fuels consumption data from *Highway Statistics* are collected for the states.

MD prices are assigned to DC. Prices include state and local per-gallon taxes. Federal taxes and state and local sales and other general taxes are not included.

The volume-weighted annual diesel physical unit prices for states and the United States are calculated by using the monthly *Agricultural Prices* price data, weighted by the monthly *Highway Statistics* consumption data. The AK 1977 through 1982 prices are estimated on the basis of the assumption that the ratio of AK-to-U.S. diesel fuel price is the same as the ratio of the AK-to-U.S. motor gasoline price each year.

Physical unit prices: 1970 through 1976

Quarterly prices from *Agricultural Prices* and monthly special fuels consumption data from *Highway Statistics* are collected for the states. Prices include state and local per-gallon taxes. Federal taxes and state and local sales taxes and other general taxes are not included.

1. Prices for 1970 through 1972 are reported in cents per gallon and must be converted to dollars per gallon. Prices for 1973 through 1976 are already reported in dollars per gallon.
2. For 1971 through 1973, state-level prices are not available for CT, MA, ME, NH, RI, and VT. Each is assigned the New England regional price for the 3 years.
3. The third quarter DE price is assigned to the missing fourth quarter DE price in 1972.
4. The combined MD/DE prices reported in 1973 are assigned to each of the states.
5. For 1970 through 1976, MD (or MD/DE) prices are assigned to DC.

The monthly special fuels consumption for 1970 through 1976 are converted into quarterly consumption by summing the months for each quarter.

The consumption-weighted annual diesel physical unit prices for the states are calculated by using the quarterly weights and quarterly prices.

For 1970 through 1972, the quarterly prices from *Agriculture Prices* are converted from cents per gallon to dollars per gallon. For 1973 forward, the prices are already in dollars per gallon in the source. AK/1970 through 1976 prices are estimated on the basis of the assumption that the ratio of AK-to-U.S. diesel fuel price is the same as the ratio of AK-to-U.S. motor gasoline price each year.

Btu prices: all years

First, SEDS converts the physical unit prices, in dollars per gallon, to dollars per barrel (42 gallons per barrel). Then SEDS converts the prices to Btu prices, in dollars per million Btu, using the conversion factors calculated by EIA and presented in SEDS consumption technical notes, Table B1. SEDS calculates U.S. Btu prices as the average of the state Btu prices, weighted by SEDS consumption data.

Data sources

Prices

2011 forward: EIA, Weekly Retail Gasoline and Diesel Prices, Ultra Low Sulfur Diesel, annual averages, https://www.eia.gov/dnav/pet/pet_pri_gnd_a_EPD2DXL0_pte_dpgal_a.htm and Hawaii's Department of Business, Economic Development & Tourism, Monthly Energy Data, https://dbedt.hawaii.gov/economic/energy-trends-2/.

2010: EIA, Petroleum & Other Liquids data website, No. 2 Distillate Prices by Sales Type, https://www.eia.gov/dnav/pet/pet_pri_dist_a_EPD2_PTC_dpgal_a.htm.

1986 through 2009: EIA, *Petroleum Marketing Annual,* https://www.eia.gov/oil_gas/petroleum/data_publications/petroleum_marketing_annual/pma_historical.html, Table 36 (1986-1988), Table 38 (1989-1993), column titled "Sales to End Users, Through Company-Operated Retail Outlets," Table 40 (1994-2006), and Table 36 (2007 forward), column titled "Sales to End Users, Through Retail Outlets," for diesel fuel prices.

2000 through 2008: EIA, *Petroleum Marketing Annual*, Table 31 (2000-2006), and Table 28 (2007-2009), column titled "All Grades, Sales to End Users, Through Retail Outlets," and EIA website at https://www.eia.gov/dnav/pet/pet_pri_allmg_a_EPM0_PTC_dpgal_a.htm, for refiner/reseller/retailer motor gasoline prices.

1986 through 1999: EIA, *Petroleum Marketing Annual*, Table 29 (1986-1988) and Table 30 (1989-1993), column titled "All Refiners, Sales to End Users, Through Company Outlets," Table 35 (1994-1999), column titled "All Grades, Sales to End Users, Through Retail Outlets," for refiner motor gasoline prices.

1983 through 1985: EIA, *Petroleum Marketing Annual 1985*, Volume 1, Table 25, column titled "Sales to End Users, Sales Through Company-Operated Retail Outlets."

1970 through 1985: Crop Reporting Board, U.S. Department of Agriculture, Agriculture Prices, tables generally titled "Motor Supplies:

Average Price Paid by Farmers for Motor Fuel" for 1970-1979, and "Diesel Fuel: Average Price Paid by States" for 1980-1985.

1970 through 1985: Federal Highway Administration, U.S. Department of Transportation, *Highway Statistics*, Table MF-25 for special fuels consumption data. Table MF-25 is not included in the 1976 volume but is publicly available directly from the Federal Highway Administration.

Taxes

2000 through 2010 (state excise taxes): EIA, *Petroleum Marketing Monthly,* https://www.eia.gov/petroleum/marketing/monthly/, Table EN1, column titled "Diesel Fuel," supplemented with information from state revenue offices and the Federal Highway Administration, U.S. Department of Transportation, *Highway Statistics,* https://www.fhwa.dot.gov/policyinformation/statistics.cfm, Table MF-121T.

2010 (state sales taxes): EIA, *Petroleum Marketing Monthly,* https://www.eia.gov/petroleum/marketing/monthly/, Table EN1, footnote 3.

1970 through 1999: Federal Highway Administration, U.S. Department of Transportation, *Highway Statistics*, Table MF-121T for state tax rates, supplemented with information from state revenue offices. Federal taxes are from *Highway Statistics* Table FE-101 (1970 through 1992) and Table MF-121T (1993 forward).

Consumption

1970 forward: EIA, State Energy Data System, transportation sector distillate consumption.

Conversion factors: all years

1970 forward: EIA, State Energy Data System, consumption technical notes, Table B1.

Hydrocarbon gas liquids

Hydrocarbon gas liquids (HGL) include natural gas liquids (ethane, propane, normal butane, isobutane, and natural gasoline) and refinery olefins (ethylene, propylene, butylene, and isobutylene). Refinery olefins are olefins produced at the refineries and do not include olefins produced by the manufacturing industries. The State Energy Data System (SEDS) assumes that, except for propane, all other HGL products are consumed only by the industrial sector. HGL prices for the residential, commercial, and transportation sectors are consumer grade propane prices.

For 2010 forward, SEDS develops industrial sector prices for two components: propane and other HGL. Industrial sector HGL prices are the consumption-weighted average prices of the two series. Prior to 2010, industrial sector HGL prices are consumer grade propane prices, with a few exceptions in the early period.

For expenditure calculations, SEDS uses its propane and other HGL products consumption estimates for each sector. For the industrial sector expenditure calculations before 2010, SEDS adjusts the amount of consumption to remove process fuel and intermediate products, including propane used as refinery fuel and natural gasoline (pentanes plus), to avoid double counting (see the discussion under Section 7, "Consumption adjustments for calculating expenditures," at https://www.eia.gov/state/seds/seds-technical-notes-complete.php.) For 2010 through 2020, natural gasoline is included in industrial sector HGL expenditures because natural gasoline product supplied does not cover products blended with motor gasoline and fuel ethanol. For 2021 forward, EIA assumes natural gasoline product supplied is equal to zero, because EIA added the "Transfers to Crude Oil Supply" column to the petroleum and other liquids "Supply and Disposition" table.

Residential sector

For 1994 forward, SEDS develops residential sector HGL prices using unpublished data on consumer grade propane prices collected from EIA surveys. SEDS adds general sales taxes to the physical unit prices. SEDS converts the physical unit prices into Btu prices using the propane conversion factor. For 1994 through 2010, SEDS bases residential propane price estimates on data from survey forms EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report." SEDS used both EIA-782A and EIA-782B because refiners, gas plant operators, resellers, and retailers all reported sales to the

residential sector on these forms. Form EIA-782B was discontinued in 2011. SEDS uses a new method to estimate residential propane prices for 2011 forward.

For 1973 through 1993, residential sector HGL prices are the average reported prices of propane delivered to residential consumers in areas where natural gas is also available as a competing fuel, as reported by natural gas suppliers to the American Gas Association. For 1970 through 1972, the prices are from the U.S. Department of Agriculture and converted to Btu prices by SEDS using the propane conversion factor. Taxes are included in the prices for 1970 through 1993. For 1970 through 1993, SEDS estimates prices for Alaska and Hawaii using a different method (see page 53).

Physical unit prices: 2011 forward

To estimate residential propane prices, SEDS develops state-level regression equations using residential propane prices for heating from EIA-877 "Winter Heating Fuels Telephone Survey" (published in EIA's *Heating Oil and Propane Update*) as the independent variable and the combined EIA-782A and EIA-782B historical state prices for residential sector propane as the dependent variable through 2010. From the weekly EIA-877 price data, SEDS calculates simple annual averages at the state, Petroleum Administration for Defense (PAD) district, PAD subdistrict, and U.S. levels. For individual states that have historical EIA-877 data before 2010, SEDS uses state-level prices. For states in PAD District 1 that do not have historical EIA-877 data before 2010, SEDS uses PAD subdistrict-level prices. For states in PAD District 2 that do not have historical EIA-877 data before 2010, SEDS uses the PAD district-level prices. For states in PAD Districts 3, 4, and 5, SEDS uses the U.S.-level EIA-877 prices.

For 2011 forward, SEDS applies the appropriate EIA-877 prices to the regression equation coefficients to estimate residential propane prices for each state. No EIA-877 price is reported for the District of Columbia, so SEDS assigns it as the average residential propane price of Maryland and Virginia. SEDS adds state general sales taxes to calculate the final state prices.

Physical unit prices: 1994 through 2010

For 1994 through 2010, residential HGL prices are estimated in cents per gallon by using data collected on Forms EIA-782A and EIA-782B. No price is reported for the District of Columbia, and it is assigned the average price of Maryland and Virginia. State general sales taxes are added to the state estimated prices.

Table TN4.9. HGL residential agricultural prices assigned to estimate 1970 prices

State	Years	State prices used
DC	1970–1972	MD
NV	1970, 1971	AZ, CA, ID, UT
OR	1971, 1972	CA, ID
UT	1972	AZ, CO, ID, NV, WY
WA	1970–1972	CA, ID

Btu prices: 1994 forward

First, SEDS converts the physical unit prices, in dollars per gallon, to dollars per barrel (42 gallons per barrel). Then SEDS converts the prices to Btu prices, in dollars per million Btu, using EIA's propane conversion factor (3.841 million Btu per barrel).

Btu prices: 1973 through 1990, 1992, and 1993

Propane prices by company are reported by the American Gas Association (AGA) directly in dollars per million Btu, including taxes. The simple average of available company prices is used as the state annual average. Prices that fall outside of a reasonable range are omitted from consideration for Central Hudson Gas and Electric for NY in 1979 through 1981; Arkansas Louisiana Gas for AR in 1989; Public Service Electric & Gas for NJ in 1989; Northwestern Public Service for SD in 1989; City of Long Beach for CA in 1989 and 1990; Orange & Rockland Utilities for NY in 1989 and 1990; Pike County Light & Power for PA in 1989 and 1990; Fitchburg Gas & Electric and Commonwealth Gas Co for MA in 1993; and Providence Gas Co. for RI in 1993.

To estimate missing prices (other than Alaska and Hawaii, which are described in a separate section that follows), simple averages of adjacent states' prices are used, as shown in Table TN4.9. Estimated data for one state are not used to estimate prices for another state.

Btu prices: 1991

Propane prices from the AGA are not available for 1991. Propane prices from the EIA *Petroleum Marketing Annual* (PMA) are used to calculate the percentage change in propane prices between 1990 and 1991 for each Petroleum Administration for Defense (PAD) district or subdistrict. These percentages are applied to the 1990 state residential HGL prices from SEDS to estimate 1991 prices for the contiguous 48 states and the

District of Columbia. Prices for HGL in Alaska and Hawaii are developed by using the methodology described on page 55.

Prices for PAD Subdistricts 1A and 1B and PAD District 5 are not available for 1990 in the PMA, and prices for PAD Subdistrict 1A and PAD District 5 for 1991 are not available. To estimate the missing PAD district or subdistrict prices, a ratio of the end-user price to the sales for resale price for propane published for an adjacent district is calculated and applied to the known sales for resale price for the PAD districts and subdistricts without an end-user price. For 1990, the PAD District 1 end-user-to-resale ratio is multiplied by the PAD Subdistricts 1A and 1B sales for resale prices to estimate an end-user price for those subdistricts. For 1991, the PAD Subdistrict 1B end-user-to-resale ratio is multiplied by the PAD Subdistrict 1A sales for resale prices to estimate an end-user price. For both years, the U.S. end-user-to-resale price ratio is applied to the PAD District 5 sales for resale price to estimate a PAD District 5 end-user price.

Physical unit prices: 1971, 1972

Physical unit residential HGL prices are based on the city-level propane prices reported by AGA in cents per gallon. Prices for missing states are estimated. The AGA prices are the average delivered prices for propane purchased by residential consumers as of December 31.

1. City-level propane prices from AGA are assigned to their respective states. The AL 1971 price for the Phoenix City Utilities System is omitted because it falls outside a reasonable range.
2. Physical unit prices for a state are calculated directly from the available city/utility price observations reported by AGA. Final physical unit prices are equal to the simple average of the price observations for each state.
3. MD prices are assigned for missing DC prices. AK and HI prices are discussed in a separate section that follows.

Physical unit prices: 1970

Because AGA did not publish propane prices prior to 1971, the residential sector HGL prices for 1970 are estimated. To maintain continuity with the AGA prices for 1971 forward, prices for 1970 are estimated by using simple regression analysis. The relationship between AGA data for 1971 and 1972 and corresponding U.S. Department of Agriculture's *Agricultural Prices* data is the basis for the estimation.

1. Before regression analysis can be applied, *Agricultural Prices* data for 1970 through 1972 are prepared for 49 states (no AK or HI prices are available). These prices include taxes. Development of AK and HI prices are described in a separate section below.
   a. State-level prices for small purchases, representing residential end users, for 1970 through 1972 are published by *Agricultural Prices* in cents per pound. When price per pound data are not available, price per gallon data, representing larger volume purchases, are used. These prices per gallon are multiplied by 0.543, the average ratio of price per pound to price per gallon for the United States for 1970 through 1972, to create uniform input data in price per pound.
   b. For 1971 and 1972, the price reported for the New England Region is assigned to CT, MA, ME, NH, RI, and VT.
   c. Data in cents per pound are converted to dollars per gallon by multiplying by the propane conversion factor of 4.2 pounds per gallon (taken from the *Petroleum Products Handbook*) and dividing by 100.
   d. Missing prices use adjacent states' average prices as shown in Table TN4.10.
2. The physical unit AGA prices and *Agricultural Prices* data for 1971 through 1972 (excluding AK and HI) are used with simple regression analysis to estimate final physical unit HGL residential prices.

Table TN4.10. HGL residential sector price assignments, 1973 through 1993

State	Years	State prices used in the estimation
AR	1977	MO, MS, OK, TN, TX
CT	1990	MA, NY, RI
DC	1973–1983, 1990	MD
DE	1976, 1984	MD, NJ, PA
ID	1977	MT, NV, OR, UT, WA, WY
LA	1977	MS, TX
ME	1973–1977, 1985, 1986, 1992	MA, NH, VT
MO	1986	IA, IL, KS
ND	1973	MN, MT, SD
NM	1987, 1988	AZ, CO, UT
NV	1973, 1975	AZ, CA, ID, OR, UT, WY
OR	1976	CA, ID, NV, WY
SD	1986	MN, MT, ND
UT	1974, 1978, 1985, 1993	AZ, CO, ID, NV, WY
VT	1979	MA, NH, NY
WV	1992	KY, MD, OH, PA, VA

Btu prices: 1970 through 1972

For 1970 through 1972, Btu prices for states are calculated by converting the physical unit prices by using the approximate heat content of 3.841 million Btu per barrel for propane. U.S. Btu prices are calculated as the average of the state Btu prices, weighted by consumption data from SEDS.

Alaska and Hawaii prices: 1970 through 1993

Prices cannot be estimated for AK and HI by using adjacent state price assignments. Missing prices for these two states are estimated by computing ratios of the AK or HI prices to the simple average U.S. prices calculated from the AGA data for years when AK or HI prices are available and applying these ratios to the U.S. simple average prices in years when prices need to be estimated.

1. AGA prices for AK are available in 1972 and 1980. The 1972 AK-to-U.S. ratio is used to estimate prices for 1970, 1971, and 1973 through 1979. The 1980 AK-to-U.S. price ratio is used to estimate prices for 1981 through 1993.
2. AGA prices for HI are available in 1971, 1977 through 1979, and 1989. The 1971 HI-to-U.S. AGA is used to estimate prices for 1970 and 1972 through 1974. The average ratio of the HI-to-U.S. prices for 1977 through 1979 is used to estimate prices for 1975, 1976, and 1980 through 1984. The 1989 HI-to-U.S. ratio is used to estimate prices for 1985 through 1988 and 1990 through 1993.

Data sources

Prices

2011 forward: Weekly residential propane price data from EIA, *Heating Oil and Propane Update*, https://www.eia.gov/petroleum/heatingoilpropane/#itn-tabs-1.

1994 through 2010: EIA, Forms EIA-782A "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B "Resellers'/Retailers' Monthly Petroleum Product Sales Report."

1971 through 1990, 1992, 1993: American Gas Association (AGA), *Gas Househeating Survey* (1971-1988), *Residential Gas Market Survey* (1989 and 1990), and *Residential Natural Gas Market Survey* (1992, 1993), Appendix 2, "Competitive Fuel Prices."

1991: EIA, *Petroleum Marketing Annual,* Table 35 (1990 and 1991), columns titled "Propane (Consumer Grade)."

1970 through 1972: Crop Reporting Board, U.S. Department of Agriculture, *Agricultural Prices*, table titled "Average Price Paid by Farmers for Lawn Mowers and Petroleum Products, Specified Dates, by State," column titled "L.P. Gas."

Taxes

SEDS calculates an annual average general sales tax for each state as a simple average of the 12 monthly values. This method takes into account tax changes during the year.

1996 forward: Federation of Tax Administrators, https://www.taxadmin.org/current-tax-rates.

1995: The Council of State Governments, *The Book of the States 1994-95* and *1996-97,* Table 6.21.

1994: U.S. Advisory Committee on Intergovernmental Relations, *Significant Features of Fiscal Federalism,* Tables 14 and 26.

Consumption

1970 forward: EIA, State Energy Data System, residential sector HGL consumption.

Conversion factors

1970 through 1972, 1994 forward: 3.841 million Btu per barrel.

1970 through 1972: 4.2 pounds per gallon from Guthrie, Virgil, ed., 1960. *Petroleum Products Handbook*. John Wiley and Sons, Inc., New York, New York, pages 3-5.

Conversion factors are not necessary for other years because Btu prices are available directly from the data sources.

Commercial sector

For 1994 forward, SEDS develops commercial sector HGL prices using various data for consumer grade propane prices. SEDS adds general sales taxes to the physical unit prices. SEDS converts the physical unit prices into Btu prices using the propane conversion factor.

For 1994 through 2010, SEDS bases commercial propane price estimates on data from survey forms EIA-782A, "Refiners'/ Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA782B, "Resellers'/ Retailers' Monthly Petroleum Product Sales Report." SEDS used both EIA-782A and EIA-782B because refiners, gas plant operators, resellers, and retailers all reported sales to the commercial sector on these forms.

Form EIA-782B was discontinued in 2011. For 2011 through 2016, SEDS uses regressions with EIA-782A data to estimate commercial propane prices. For 2017 forward, SEDS uses historical price margins, propane spot prices, and average U.S. Consumer Price Index (CPI) inflation rate to estimate commercial propane prices.

Physical unit prices: 2017 forward

The EIA-782A price data are no longer available, so SEDS uses a new method to estimate commercial sector propane price data by state. For each state, SEDS calculates the average difference (margin) between the historical SEDS commercial propane price (before tax) and Refinitiv's Mont Belvieu, Texas propane spot price for 2015 through 2016. Then for 2017 forward, SEDS multiplies each 2015 through 2016 state margin by the U.S. Bureau of Labor Statistics' annual average CPI inflation growth rate. SEDS sums each state margin (with inflation) to the annual propane spot price to calculate state prices (before tax). Lastly, SEDS adds individual state general sales taxes to calculate the final state prices.

Physical unit prices: 2011 through 2016

To estimate commercial propane prices, SEDS develops regression equations for the Petroleum Administration for Defense (PAD) districts and subdistricts. Regression equations use PAD-level EIA-782A wholesale prices as the independent variable and the combined EIA-782A and EIA-782B historical PAD-level prices for commercial and institutional consumer's propane prices as the dependent variable. SEDS uses the regression equation coefficients and annual EIA-782A wholesale prices to estimate commercial propane prices for the PAD districts and subdistricts. All states are assigned the corresponding PAD district or subdistrict estimated price. Lastly, SEDS adds individual state general sales taxes to calculate the final state prices.

Physical unit prices: 1994 through 2010

For 1994 through 2010, commercial sector prices for HGL are estimated from PAD district or subdistrict prices for consumer grade propane sold to commercial and institutional consumers published in cents per gallon in the EIA *Petroleum Marketing Annual* (PMA). PAD district or subdistrict prices are assigned to all states within each PAD district or subdistrict and general state sales taxes are added.

Btu prices: 1994 forward

The physical unit prices are converted to dollars per million Btu using 42 gallons per barrel and the approximate heat content of 3.841 million Btu per barrel for propane.

Physical unit prices: 1970 through 1993

For 1970 through 1993, state physical unit prices from the industrial sector are assigned to the commercial sector.

Data sources

Prices

2017 forward: Historical SEDS commercial sector propane prices; Refinitiv, an LSEG business, Mont Belvieu, TX propane spot price FOB, as re-published on the EIA website https://www.eia.gov/dnav/pet/hist/LeafHandler.ashx?n=PET&s=EER_EPLLPA_PF4_Y44MB_DPG&f=A; and U.S. Department of Labor, Bureau of Labor Statistics Consumer Price Index (CPI) 12-month percentage change for December each year https://www.bls.gov/charts/consumer-price-index/consumer-price-index-by-category-line-chart.htm.

2011 through 2016: Unpublished wholesale propane (consumer grade) price data from EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

1994 through 2010: EIA, *Petroleum Marketing Annual,* https://www.eia.gov/oil_gas/petroleum/data_publications/petroleum_marketing_annual/pma_historical.html, Table 38, column titled, "Commercial/Institutional Consumers" (1994-2006) and Table 34 (2007-2009), and on the EIA website at https://www.eia.gov/dnav/pet/pet_pri_prop_a_EPLLPA_PCS_dpgall_a.htm.

1970 through 1993: EIA, industrial sector HGL prices from the State Energy Data System.

Taxes

SEDS calculates an annual average general sales tax for each state as a simple average of the 12 monthly values. This method takes into account tax changes during the year.

1996 forward: Federation of Tax Administrators, https://www.taxadmin.org/current-tax-rates.

1995: The Council of State Governments, *The Book of the States 1994-95* and *1996-97*, Table 6.21.

1994: U.S. Advisory Committee on Intergovernmental Relations, *Significant Features of Fiscal Federalism,* Tables 14 and 26.

Consumption

1970 forward: EIA, State Energy Data System, commercial sector HGL consumption.

Conversion factor: all years

3.841 million Btu per barrel.

Industrial sector

For 2010 forward, SEDS develops industrial sector prices for two components: propane and other HGL. Industrial sector HGL prices are the consumption-weighted average Btu prices of the two series. Prior to 2010, industrial sector HGL prices are consumer grade propane prices, with a few exceptions in the early period.

For 1985 through 2009, SEDS estimates industrial sector HGL prices as the average of propane prices to industrial customers, petrochemicals, and other end users; to manufacturing firms; to farmers; or refiner and gas plant operator sales to end users, depending on the data sources for the different years. Prices for 1985 through 2009 are based on data from the EIA *Petroleum Marketing Annual* (PMA).

Prices for 1978 through 1981 are from the U.S. Department of Commerce, Census Bureau, *Annual Survey of Manufactures* (ASM) or the *Census of Manufactures* (CM). For 1970 through 1977 and 1982 through 1984, SEDS calculates prices from *Agricultural Prices* that are scaled to the ASM/CM prices by using the ratio of ASM/CM to *Agricultural Prices* L.P. Gas prices for the years 1978 through 1981, when both price series were available. The industrial sector prices include taxes for all years.

Other HGL Btu prices: 2010 forward

To estimate prices of HGL other than propane (including propylene, ethane, ethylene, normal butane, and butylene, isobutane, isobutylene, and natural gasoline) used by the industrial sector for 2010 forward, SEDS uses the following daily Bloomberg price series:

- Propylene — Generic 1st polymer grade propylene future, supplemented by U.S. Gulf Coast propylene spot price before December 2010
- Ethane — Mont Belvieu ethane
- Ethylene — Ethylene delivered pipeline Gulf
- Normal butane and butylene — Mont Belvieu butane non-LDH
- Isobutane and isobutylene — North American spot LPG iso-butane price/Mont Belvieu Texas non-LST
- Natural gasoline — Mont Belvieu natural gasoline spot

SEDS calculates simple annual averages for each Bloomberg price series. SEDS adds a 10 cent per gallon delivery charge to each annual price series to account for the average cavern-to-consumer delivery charge passed on to end users. The annual prices are converted to Btu prices, in dollars per million Btu, using EIA's conversion factor for each fuel. SEDS calculates state-level average annual prices using each state's consumption. Lastly, SEDS adds individual state general sales taxes to calculate the final state prices.

Propane physical unit prices: 2017 forward

The EIA-782A price data are no longer available, so SEDS uses a new method to estimate industrial sector propane price data by state. For each state, SEDS calculates the average difference (margin) between the historical SEDS industrial propane price (before tax) and Refinitiv's Mont Belvieu, Texas propane spot price for 2015 through 2016. Then for 2017 forward, SEDS multiplies each 2015 through 2016 state margin by the U.S. Bureau of Labor Statistics' annual average CPI inflation growth rate. SEDS sums each state margin (with inflation) to the annual propane spot price to calculate state prices (before tax). Lastly, SEDS adds individual state general sales taxes to calculate the final state prices.

Propane physical unit prices: 2011 through 2016

To estimate industrial propane prices, SEDS develops regression equations for the Petroleum Administration for Defense (PAD) districts and subdistricts. Regression equations use PAD-level EIA-782A wholesale prices as the independent variable and the combined EIA-782A and EIA-782B historical PAD-level prices for three industrial sector categories—industrial consumers, petrochemical plants, and other end users (agricultural consumers)—propane prices as the dependent variable. SEDS uses the regression equation coefficients and annual EIA-782A wholesale prices to estimate industrial propane prices for the PAD districts and subdistricts. All states are assigned the corresponding PAD district or subdistrict estimated price. Lastly, SEDS adds individual state general sales taxes to calculate the final state prices.

Propane physical unit prices: 2010

Each state is assigned the corresponding PAD district or subdistrict propane price from the combined EIA-782A and EIA-782B prices for

three industrial sector categories—industrial consumers, petrochemical plants, and other end users (agricultural consumers). For petrochemicals, withheld and out-of-range prices are assigned the U.S. average petrochemical price or other estimate in the calculations. Individual state general sales taxes are added to the PAD-level estimated prices to calculate the final state prices.

Propane Btu prices: 2010 forward

SEDS converts the physical unit prices, in dollars per barrel, to Btu prices, in dollars per million Btu, using EIA's propane conversion factor (3.841 million Btu per barrel).

Physical unit prices: 1994 through 2009

Each state is assigned the corresponding PAD district or subdistrict propane price from the combined EIA-782A and EIA-782B prices for three industrial sector categories—industrial consumers, petrochemical plants, other end users (agricultural consumers). For petrochemicals, withheld and out-of-range prices are assigned the U.S. average petrochemical price or other estimate in the calculations. Individual state general sales taxes are added to the PAD-level estimated prices to calculate the final state prices.

Physical unit prices: 1985 through 1993

Industrial sector HGL physical unit state prices for 1985 forward are estimated by using physical unit annual prices in PMA for consumer grade propane sales to end users and state general sales taxes are added. Where prices are not available, the PAD district or subdistrict price is assigned to the state, as shown in Table TN4.11. One exception is Arkansas for 1992 and 1993. Because the neighboring states in PAD District 3 are HGL producers, the PAD District 3 price is uncharacteristically lower than previously reported prices for Arkansas. Therefore, the 3 monthly prices available for Arkansas in 1992 are averaged to derive an annual price. In 1993, the Missouri price is assigned to Arkansas.

When a PAD district or subdistrict price is not available, a consumption weighted average price is calculated by using available prices for states within the district and the SEDS industrial sector HGL consumption for those states. PAD District 5 price for 1985 is calculated as a consumption-weighted average of AK, CA, OR, and WA prices; PAD Subdistrict 1A price for 1986 uses the average of CT and NH prices; and PAD Subdistrict 1A prices for 1987 through 1988 use the average of CT and MA prices.

When a PAD district or subdistrict price is not available and there are no

Table TN4.11. HGL industrial sector PAD district and subdistrict price assignments, 1985 through 1993

State	Years	Assignments
AK	1986–1988, 1990–1993	District 5
AL	1985–1988	District 3
AZ	1985–1993	District 5
CA	1990–1993	District 5
CO	1991	District 4
CT	1990–1993	Subdistrict 1A
DC	1985–1993	Subdistrict 1B
DE	1986–1993	Subdistrict 1B
FL	1990–1993	Subdistrict 1C
GA	1985, 1990–1993	Subdistrict 1C
HI	1985–1993	District 5
IA	1986, 1991–1993	District 2
ID	1986, 1990–1993	District 4
IN	1990	District 2
KS	1986–1989, 1992	District 2
MA	1986, 1990–1993	Subdistrict 1A
MD	1988, 1990–1993	Subdistrict 1B
ME	1986–1993	Subdistrict 1A
MI	1985–1988, 1990	District 2
MN	1985, 1986, 1988–1991, 1993	District 2
MS	1990–1993	District 3
MT	1990–1993	District 4
NC	1991, 1992	Subdistrict 1C
ND	1985, 1986, 1991–1993	District 2
NE	1986–1992	District 2
NH	1987–1993	Subdistrict 1A
NM	1993	District 3
NV	1985–1988, 1990–1993	District 5
NY	1990–1993	Subdistrict 1B
OH	1990	District 2
OK	1986, 1987	District 2
OR	1986, 1990–1993	District 5
PA	1990–1993	Subdistrict 1B
RI	1986–1993	Subdistrict 1A
SC	1992	Subdistrict 1C
SD	1985–1993	District 2
TN	1990–1993	District 2
UT	1986–1988, 1990–1993	District 4
VT	1986–1993	Subdistrict 1A
WA	1986–1993	District 5
WI	1985, 1986, 1990	District 2
WV	1989–1993	Subdistrict 1C
WY	1987, 1988	District 4

Table TN4.12. HGL industrial sector, PAD district and subdistrict price estimates, 1990 through 1993

Year	Missing prices	Prices used in estimation
1990	Subdistrict 1A	District 1
	Subdistrict 1B	District 1
	District 5	U.S.
1991	Subdistrict 1A	Subdistrict 1B
	District 5	U.S.
1992	Subdistrict 1A	Subdistrict 1C
	Subdistrict 1B	Subdistrict 1C
1993	Subdistrict 1A	Subdistrict 1C
	Subdistrict 1B	Subdistrict 1C

state data within the PAD district or subdistrict to develop a consumption-weighted average, a different methodology is used. The source table also contains sales for resale prices. To estimate the missing sales to end-users PAD district or subdistrict price, a ratio of the end-users price to the sales for resale price for an adjacent PAD district or subdistrict is calculated and applied to the known sales for resale price for the PAD district or subdistrict that does not have an end-user price. PAD district and subdistrict prices used in the estimations are shown in Table TN4.12.

Physical unit prices: 1982 through 1984, 1970 through 1977

Industrial sector HGL physical unit prices for 1982 through 1984 and 1970 through 1977 are estimated on the basis of the relationship between state-level L.P. Gas prices from *Agricultural Prices* and the prices calculated from *Annual Survey of Manufactures* (ASM) or *Census of Manufactures* (CM) for 1978 through 1981.

1. Before the adjustment factor that relates *Agricultural Prices* and ASM/CM data is computed, monthly *Agricultural Prices* data are converted into annual prices and missing data are estimated.
   a. Annual HGL prices are calculated as simple averages of the monthly prices from *Agricultural Prices* for the years 1977 through 1984. The only states missing data are WV in 1977 through 1981 and AK, DC, and HI in 1977 through 1984. WV is assigned the simple average of the KY, MD, OH, PA, and VA prices. AK, DC, and HI prices are discussed below.
   b. The average ratio of ASM/CM-based final prices for 1978 through 1981 and the 1978 through 1981 *Agricultural Prices* annual prices is calculated for 48 states (excluding AK, DC, and HI) as the simple average of the ratio over the 4 years. This average ratio is used as an adjustment factor.
2. Final industrial sector HGL prices for 1982 through 1984 and 1970 through 1977 are estimated by using the state-level adjustment factors and annual average L.P. Gas prices from *Agricultural Prices* for these years.
   a. Annual average HGL prices are calculated for 1982 through 1984 and 1970 through 1977 as the simple average of the monthly prices.
   b. *Agricultural Prices* published annual average prices in dollars per gallon for all states in 1975 and 1976. For DE in 1970 through 1974, MD in 1970 through 1974, VA in 1970 through 1974, and WV in 1970 through 1972, only prices for small volume purchases in cents per pound were published. These are converted to cents per gallon by multiplying by 1.96, the average ratio of cents per gallon to cents per pound for the United States for 1970 through 1974.
   c. For 1970 through 1972, *Agricultural Prices* are converted from cents per gallon to dollars per gallon.
   d. For 1971 through 1973, the New England price per gallon reported by *Agricultural Prices* is assigned to CT, MA, ME, NH, RI, and VT.
   e. MD prices are assigned to DC in 1970 through 1972, 1974 through 1977, and 1982 through 1984. The combined MD/DE price in 1973 is assigned to MD, DE, and DC.
   f. Excluding AK and HI, states missing *Agricultural Prices* L.P. Gas prices are assigned the simple average price of adjacent states. The states with missing data and the adjacent state assignments are shown in Table TN4.13.
   g. Industrial sector HGL physical unit prices for 1970 through 1977 and 1982 through 1984 for all states (except AK, DC, and HI) are calculated by using the estimated annual *Agricultural Prices* data for the respective year and the state-level average ratios as adjustment factors.
3. AK prices for 1970 through 1977 and 1982 through 1984 and HI prices for 1970 through 1977 and 1982 through 1984 are estimated by using the relationship between ASM/CM based prices for these states and the U.S. price reported by *Agricultural Prices* (1979 through 1981 for AK and 1978 through 1981 for HI). The average ratio for the available years for the two states is calculated and used with the *Agricultural Prices* U.S. prices for the years to be estimated.

Physical unit prices: 1978 through 1981

Table TN4.13. HGL industrial sector price assignments, 1970 through 1976

State	Years	State prices used in the estimation
CT	1974	NY
MA	1974	NY
ME	1974	NY
NH	1974	NY
NV	1970, 1971	AZ, CA, ID, UT
	1973, 1974	AZ, CA, ID
OR	1970–1974	CA, ID
RI	1974	NY
	1975, 1976	CT, MA, NY
UT	1972	AZ, CO, ID, NV, WY
	1973, 1974	AZ, CO, ID, WY
VT	1974	NY
WA	1970–1974	CA, ID

For 1978 through 1981, the industrial sector HGL prices are either calculated directly from cost and quantity data from the ASM or the CM or are estimated by using the relationship of ASM/CM data to HGL price data from *Agricultural Prices*.

1. For 1978 through 1981, industrial sector physical unit prices for HGL are calculated as the average cost per unit from cost and quantity data published in ASM/CM. Because sales are reported in pounds, the prices are converted to dollars per gallon. The conversion factor of 4.5 pounds per gallon is from ASM/CM.
2. The AK price for 1978 is the consumption-weighted average Census division price. In addition, four states have prices estimated as the simple average of the prices of adjacent states, and DC is assigned the MD price, as shown in Table TN4.14.

Btu prices: 1970 through 2009

Btu prices for the states are calculated from the physical unit prices and the conversion factors shown in SEDS consumption technical notes, Appendix B. U.S. Btu prices are calculated as the average of the state Btu prices, weighted by consumption data from SEDS, adjusted for process fuel and intermediate product consumption.

Data sources

Prices

2017 forward: Historical SEDS industrial sector propane prices; Refinitiv, an LSEG business, Mont Belvieu, TX propane spot price FOB, as re-published on the EIA website https://www.eia.gov/dnav/pet/hist/LeafHandler.ashx?n=PET&s=EER_EPLLPA_PF4_Y44MB_DPG&f=A; and U.S. Department of Labor, Bureau of Labor Statistics Consumer Price Index (CPI) 12-month percentage change for December each year https://www.bls.gov/charts/consumer-price-index/consumer-price-index-by-category-line-chart.htm.

Table TN4.14. HGL industrial sector price assignments, 1978 through 1981

State	Years	State prices used
AR	1978	LA, MO, MS, OK, TX
DC	1978–1981	MD
LA	1980	AR, MS, TX
NM	1979–1981	AZ, CO, OK, TX
WY	1978–1981	CO, ID, MT, ND, NE, SD, UT

2011 through 2016: Unpublished wholesale propane (consumer grade) price data from EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report" and daily ethane, ethylene, isobutane, normal butane, and propylene prices from *Bloomberg*, https://www.bloomberg.com/professional/product/pricing-data/.

1994 through 2010: EIA, *Petroleum Marketing Annual,* https://www.eia.gov/oil_gas/petroleum/data_publications/petroleum_marketing_annual/pma_historical.html, prices from Table 38, columns titled "Industrial Consumers," "Petrochemical," and "Other End Users" (1994-2006) and Table 34 (2007-2009) and on the EIA website at https://www.eia.gov/dnav/pet/pet_pri_prop_a_EPLLPA_pin_dpgal_a.htm, and unpublished associated volumes are used to calculate consumption-weighted average prices.

1985 through 1993: EIA, *Petroleum Marketing Annual,* Table 21 (1985), Table 33 (1986-1988), and Table 35 (1989-1993), columns titled "Propane (Consumer Grade)," "Sales to End Users," and "Sales for Resale."

1970 through 1984: Crop Reporting Board, U.S. Department of Agriculture, *Agricultural Prices,* tables titled "Average Price Paid by Farmers for Lawn Mowers and Petroleum Products, Specified Dates, by State," column titled "L.P. Gas," (1970-1976); "Household Supplies: Average Price Paid by Farmers" (1977-1979); "L.P. Gas: Average Price Paid by States" (1980); and "L.P. Gas: Average Price Paid by Months by States" (1981-1984).

1981: Census Bureau, U.S. Department of Commerce, *1982 Census of Manufactures, Fuels and Electric Energy Consumed, Part 2, States and*

Standard Metropolitan Statistical Areas by Major Industry Groups, Table 3, state-level quantity and cost of liquefied petroleum gases.

1978 through 1980: Census Bureau, U.S. Department of Commerce, *Annual Survey of Manufactures, Fuels and Electric Energy Consumed, States by Industry Group and Standard Metropolitan Statistical Areas by Major Industry Group*, Table 3, state-level quantity and cost of liquefied petroleum gases.

Taxes

For 1992 forward, SEDS calculates an annual average general sales tax for each state as a simple average of the 12 monthly values. This method takes into account tax changes during the year.

1996 forward: Federation of Tax Administrators, https://www.taxadmin.org/current-tax-rates.

1995: The Council of State Governments, *The Book of the States 1994-95* and *1996-97*, Table 6.21.

1994: U.S. Advisory Committee on Intergovernmental Relations, *Significant Features of Fiscal Federalism,* Tables 14 and 26.

1993: Census Bureau, U.S. Department of Commerce, *State Tax Review,* Volume 54, No. 31, map titled "State Gasoline, Sales and Cigarette Tax Rates as of July 1, 1993."

1985 through 1992: Census Bureau, U.S. Department of Commerce, *State Government Tax Collections,* table titled "State Government Excises on General Sales, Motor Fuel, and Cigarettes, Beginning and End of Fiscal Year," column "Percentage rate, Sept. 1."

Consumption

1970 forward: EIA, State Energy Data System, industrial sector HGL consumption.

1994 through 2010: EIA, unpublished volume data for "Industrial Consumers," "Petrochemical," and "Other End Users"collected on Form EIA-782B for consumption-weighted average industrial sector price calculations.

Conversion factors: all years

Conversion factors for the HGL products are published in EIA, State Energy Data System, consumption technical notes, Appendix B, https://www.eia.gov/state/seds/seds-technical-notes-complete.php.

Transportation sector

For 1994 forward, SEDS develops transportation sector HGL prices of consumer grade propane sold through retail outlets. SEDS adds general sales taxes to the physical unit prices and converts to Btu prices using the propane conversion factor.

For 1994 through 2010, SEDS bases transportation propane price estimates on data from survey forms EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report." SEDS used both EIA-782A and EIA-782B because refiners, gas plant operators, resellers, and retailers all reported sales to the transportation sector on these forms. Form EIA-782B was discontinued in 2011. For 2011 through 2021, SEDS uses regional regression models using EIA-782A data. Form EIA-782A was suspended in 2021. SEDS uses a new method for 2022 forward.

Physical unit prices: 2022 forward

The EIA-782A price data are no longer available, so SEDS uses a new regression model method to estimate transportation sector propane price data by state. For each state, SEDS develops a simple linear regression model that uses the 2013 through 2021 historical transportation propane price data (before tax) as the dependent Y variable and both the annual average EIA U.S. propane wholesale/resale price and Refinitiv Mont Belvieu, Texas propane spot price as the independent X variables. After the regression output, SEDS adds state motor fuel taxes for propane to calculate the final state prices.

Physical unit prices: 2011 through 2021

To estimate transportation propane prices, SEDS develops regression equations for the Petroleum Administration for Defense (PAD) districts and subdistricts. Regression equations use PAD-level EIA-782A wholesale prices as the independent variable and the combined EIA-782A and EIA782B historical PAD-level prices for retail outlet propane prices as the dependent variable. SEDS uses the regression equation coefficients and annual EIA782A wholesale prices to estimate transportation propane prices for the PAD districts and subdistricts. All states are assigned the corresponding PAD district or subdistrict estimated price. Lastly, SEDS adds state motor fuel taxes for propane to calculate the final state prices.

Physical unit prices: 1970 through 2010

For 1994 through 2010, transportation sector prices are estimated

from PAD district or subdistrict prices for consumer grade propane sold through retail outlets published in the EIA *Petroleum Marketing Annual* (PMA) or from unpublished data collected on Forms EIA-782A and EIA-782B. Physical unit PAD district or subdistrict prices are assigned to all states within a PAD district or subdistrict and state motor fuel taxes are added.

For 1985 through 1993, state physical unit prices from the industrial sector are assigned to the transportation sector and HGL motor fuel taxes are added.

For 1970 through 1984, state physical unit prices from the industrial sector, including taxes, are assigned to the transportation sector.

Btu prices

First, SEDS converts the physical unit prices, in dollars per gallon, to dollars per barrel (42 gallons per barrel). Then SEDS converts the prices to Btu prices, in dollars per million Btu, using EIA's propane conversion factor (3.841 million Btu per barrel).

Data sources

Prices

2022 forward: Historical SEDS transportation sector propane prices; EIA-877 U.S. propane Wholesale/Reale price (annual average calculated by SEDS) https://www.eia.gov/dnav/pet/hist/LeafHandler.ashx?n=PET&s=M_EPLLPA_PWR_NUS_DPG&f=M; and Refinitiv, an LSEG business, Mont Belvieu, TX propane spot price FOB, as re-published on the EIA website https://www.eia.gov/dnav/pet/hist/LeafHandler.ashx?n=PET&s=EER_EPLLPA_PF4_Y44MB_DPG&f=A.

2011 through 2021: Unpublished wholesale propane (consumer grade) price data from EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

1994 through 2010: EIA, Forms EIA-782A "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B "Resellers'/Retailers' Monthly Petroleum Product Sales Report," propane prices, sales to end-users through retail outlets, for the PAD districts and subdistricts.

Taxes

1985 forward: Federal Highway Administration, U.S. Department of Transportation, *Highway Statistics*, Table MF-121T for state tax rates on liquefied petroleum gases as motor fuel, supplemented with information from state revenue offices.

Consumption

1970 forward: EIA, State Energy Data System, transportation sector HGL consumption.

Conversion factor: all years

3.841 million Btu per barrel.

Jet fuel

The State Energy Data System (SEDS) estimates jet fuel prices in the transportation sector for all years and in the electric power sector for 1972 through 1982.

Transportation sector

SEDS develops prices for kerosene-type jet fuel and uses them as the price for both kerosene and naphtha-type jet fuels. Since 1997, almost all jet fuel used for transportation is kerosene-type. The prices do not include taxes.

Physical unit prices: 2022 forward

In 2021, the U.S. Energy Information Administration (EIA) discontinued its survey EIA-782 that provided jet fuel prices to end users and as a result the data are no longer available. For 2022 forward, SEDS estimates state-level jet fuel prices with a simple linear regression model for each state, using historical SEDS state-level jet fuel prices as the dependent variables and the Refinitiv U.S.-level jet fuel spot price as the independent variable.

Physical unit prices: 1983 through 2021

SEDS uses data from EIA's *Petroleum Marketing Annual* (PMA) and *Petroleum Marketing Monthly* (PMM) to estimate transportation sector jet fuel prices for 1983 forward. Annual refiner prices of sales to end users are available for most states. SEDS converts the prices to dollars per gallon. SEDS assigns states without prices the adjacent state or PAD district or subdistrict price, as shown in Table TN4.15.

Physical unit prices: 1976 through 1982

State-level jet fuel prices for 1976 through 1982 are calculated from the *Producer Prices and Price Indexes* (PPI) monthly indices for Census divisions and the jet fuel base prices by state for July 1975. The monthly price for each Census division is equal to the PPI monthly index times the jet fuel base price for July 1975 for that Census division. Census division monthly prices are assigned to each state within the Census division, and annual jet fuel prices are computed as simple averages of the monthly state prices.

Physical unit prices: 1970 through 1975

Table TN4.15. Jet fuel transportation sector price assignments, 1983 through 2021

State	Years	Assignment
AK	2015–2017, 2019–2021	PAD District 5
AR	2001–2003, 2007–2021	PAD District 3
AZ	2019, 2020	PAD District 5
CT	2008–2021	PAD Subdistrict 1A
DC	1983–1988, 1990, 1993	MD
DE	1987, 2003–2021	PAD Subdistrict 1B
FL	2021	PAD Subdistrict 1C
GA	2015–2021	PAD Subdistrict 1C
HI	2000–2012, 2015, 2017–2021	PAD District 5
IA	2015, 2016, 2018, 2019	PAD District 2
ID	2007–2011, 2014–2021	PAD District 4
KS	1996, 2006–2021	PAD District 2
KY	2006–2008, 2014–2017, 2020, 2021	PAD District 2
MA	1996, 2003–2010, 2013, 2014, 2016–2018, 2021	PAD Subdistrict 1A
MD	2012, 2014–2021	PAD Subdistrict 1B
ME	1985, 1990, 1991, 1993–2021	PAD Subdistrict 1A
MI	2015, 2016, 2018–2020	PAD District 2
MN	2020, 2021	PAD District 2
MO	2007, 2010, 2013–2021	PAD District 2
MS	2002, 2007, 2009–2012	PAD District 3
MT	2009–2011, 2013–2021	PAD District 4
NC	2013–2016, 2018, 2021	PAD Subdistrict 1C
ND	2002–2021	PAD District 2
NE	2004, 2006, 2007, 2012, 2014–2021	PAD District 2
NH	1987, 1995, 2000, 2004–2021	PAD Subdistrict 1A
NM	2007, 2008, 2012–2021	PAD District 3
NV	2016, 2017, 2019–2021	PAD District 5
NY	2014–2016	PAD Subdistrict 1B
OK	2016–2021	PAD District 2
PA	2015–2019	PAD Subdistrict 1B
RI	1983–1988, 1998–2000, 2002–2021	PAD Subdistrict 1A
SC	2014, 2015, 2017–2021	PAD Subdistrict 1C
SD	2009–2011, 2013, 2017–2021	PAD District 2
TN	2009–2021	PAD District 2
VT	1984–1988, 1991, 1992, 1999, 2003–2021	PAD Subdistrict 1A
WI	2003, 2008–2017, 2020	PAD District 2
WV	1993–2000, 2003–2010, 2012–2021	PAD Subdistrict 1C
WY	2003, 2005–2007, 2009–2015, 2017–2020	PAD District 4

Jet fuel physical unit state-level prices for the 1970 through 1975 period are based on U.S. annual wholesale prices from the PPI and the relationship of these prices to wholesale kerosene prices reported in *Platt's.* The U.S. prices are converted to Census division prices, which are then assigned directly to states.

Preliminary U.S. jet fuel prices from the PPI for 1973 through 1980 are calculated by using the annual jet fuel price indices, the jet fuel U.S. base price for July 1975 (0.276 dollars per gallon) and the U.S. index for July 1975 (235.8). The index for 1973 is assumed to be equal to a simple average of the 11 available monthly indices.

The calculated preliminary U.S. jet fuel prices from the PPI are used as the dependent variable in a regression equation for 1973 through 1980, where the wholesale kerosene prices from *Platt's* are the independent variable. The regression equation is used to estimate U.S. annual jet fuel prices for 1970 through 1972.

Jet fuel prices for Census divisions are estimated by using the preliminary U.S. prices derived above for 1970 through 1975 (calculated directly from the PPI data for 1973 through 1975 and estimated for 1970 through 1972). These prices are used as inputs to a regression equation which establishes a linear relationship between preliminary U.S. prices and Census division prices for the years 1970 through 1975. Census division prices are assigned to each state within the Census division.

Btu prices: all years

SEDS converts the state physical unit prices, in dollars per gallon, to Btu prices, in dollars per million Btu, using EIA's jet fuel Btu conversion factor (5.670 million Btu per barrel). The U.S. Btu prices are the average of the state Btu prices, weighted by SEDS consumption data.

Data sources

Prices

2022 forward:

- Refinitiv, an LSEG business, as re-published on EIA's Petroleum & Other Liquids data website, U.S. Gulf Coast kerosene-type jet fuel spot price, https://www.eia.gov/dnav/pet/hist/LeafHandler.ashx?n=PET&s=EER_EPJK_PF4_RGC_DPG&f=A.
- EIA, historical SEDS estimates of state-level jet fuel prices.

2010 through 2021: EIA, Petroleum & Other Liquids data website, Refiner Petroleum Product Prices by Sales Type, End Users—Kerosene-type Jet Fuel, https://www.eia.gov/dnav/pet/pet_pri_refoth_a_EPJK_PTG_dpgal_a.htm.

1985 through 2009: EIA, *Petroleum Marketing Annual,* https://www.eia.gov/oil_gas/petroleum/data_publications/petroleum_marketing_annual/pma_historical.html, Table 21, column titled "Kerosene-Type Jet Fuel" (1985), Table 33, column titled "Kerosene-Type Jet Fuel, Sales to End Users," (1986-1988), Table 35 (1989-1993), Table 36 (1994-2006), and Table 32 (2007 forward). Also available at https://www.eia.gov/dnav/pet/pet_pri_refoth_a_EPJK_PTG_dpgal_a.htm.

1983, 1984: EIA, *Petroleum Marketing Annual 1994*, Table A2, column titled "Kerosene-Type Jet Fuel, Sales to End Users."

1973 through 1982: Bureau of Labor Statistics, U.S. Department of Labor, *Producer Prices and Price Indexes, Supplement,* table titled "Producer price indexes for refined petroleum products by region."

1970 through 1975: McGraw-Hill, Inc., *Platt's Oil Price Handbook and Oilmanac,* 57th Edition, page 480.

Consumption

1970 forward: EIA, State Energy Data System, transportation sector jet fuel consumption.

Conversion factor: all years

5.670 million Btu per barrel.

Electric power sector

SEDS estimates jet fuel consumption in the electric power sector for 1972 through 1982. For 1970 and 1971, no parallel series is available; and for the years after 1982, the series is a part of "light oil" and assigned the electric power distillate fuel oil price by state. (See Distillate Fuel Oil, Electric Power Sector on page 44). The prices include all applicable taxes.

Btu prices: 1975 through 1982

For the states that consumed kerosene-type jet fuel at electric utilities during these years, the Btu prices are taken directly from EIA's *Cost and Quality of Fuels for Electric Plants* (C&Q).

Btu prices: 1972 through 1974

Because C&Q prices are not available for 1972 through 1974, prices are

estimated from C&Q prices for 1975 and 1976 and the U.S. Department of Agriculture's *Agricultural Prices* data for 1972 through 1976.

1. Simple annual averages of *Agricultural Prices* quarterly values are calculated for 1972 through 1976. New England Census Division prices are assigned to CT, MA, ME, NH, RI, and VT.
2. The average annual prices based on *Agricultural Prices* values for 1975 and 1976 are used as the independent variables in a regression where the dependent variables are state-level prices based on C&Q prices for 1975 and 1976.
3. State-level price estimates for 1972 through 1974 are derived from the results of the regression analysis and the *Agricultural Prices* values for 1972 through 1974.

U.S. Btu prices: all years

U.S. Btu prices are calculated as the average of the state Btu prices, weighted by consumption data from SEDS.

Data sources

Prices

1975 through 1982: EIA, *Cost and Quality of Fuels for Electric Plants*, Tables 6 and 13 (1975), Table 13 (1976-1979), and Table 47 (1980-1982).

1972 through 1976: Crop Reporting Board, U.S. Department of Agriculture, *Agriculture Prices*, table titled "Household Supplies: Average Prices Paid by Farmers for Lawn Mowers and Petroleum Products."

Consumption

1972 through 1982: EIA, State Energy Data System, electric power sector kerosene-type jet fuel consumption.

Kerosene

The State Energy Data System (SEDS) estimates kerosene prices for the residential, commercial, and industrial sectors. For 2022 forward, SEDS estimates prices for the residential, commercial, and industrial sectors using historical regression equations. For 1983 through 2021, SEDS estimates prices using data from the survey EIA-782, as published in EIA's former *Petroleum Marketing Annual* and *Petroleum Marketing Monthly* reports, where the residential and commercial sectors use end-user prices, and the industrial sector uses resale prices. For 1970 through 1982, SEDS develops prices for the residential and industrial sectors, and assigns the industrial sector prices to the commercial sector. SEDS uses its kerosene consumption estimates to calculate expenditure estimates for each sector.

Residential sector

SEDS estimates residential sector kerosene prices using different data sources and estimation methods, depending on the year. For 1970 through 1982, SEDS estimates residential kerosene prices using data from the U.S. Bureau of Labor Statistics *Producer Prices and Price Indexes* (PPI) and the U.S. Department of Agriculture *Agricultural Prices* publications. For 1983 through 2009, SEDS directly uses prices of kerosene sales to end users (excluding taxes) from the U.S. Energy Information Administration's (EIA) *Petroleum Marketing Annual* (PMA). For 2010 through 2021, PMA is no longer available, but the same set of physical unit prices, in dollars per gallon (excluding taxes), are available on the EIA website. For 2022 forward, EIA suspended its survey EIA-782 and no physical unit prices are available, so SEDS estimates using regression equations. SEDS adds state general sales taxes from the U.S Census Bureau and successor sources. For all years, SEDS calculates physical unit prices from the data sources, and converts them to Btu prices using the kerosene conversion factor.

Physical unit prices: 2022 forward

For 2022 forward, EIA suspended its survey EIA-782 that provided the data and no physical unit prices are available, so SEDS estimates prices using regression equations. The regression equation for each state uses the historical SEDS residential price for 2010 through 2021 as the Y dependent variable and three X independent variables—the annual average U.S. No. 2 residential heating oil price, the annual average NYSERDA New York "statewide" retail kerosene price, and the Refinitiv crude

oil Cushing, OK WTI spot price FOB. After the regression output, SEDS adds state general sales taxes.

Physical unit prices: 2018 through 2021

SEDS estimates residential kerosene prices as the prices of kerosene sold to end users by refiners, published on the EIA website. If a state has no published price, SEDS assigns the corresponding published Petroleum Administration for Defense (PAD) district or subdistrict price. If no PAD district or subdistrict price is available, SEDS assigns the U.S. price to those states. In 2018, refiner prices are available for Minnesota, New York, Pennsylvania, and PAD Subdistrict 1B and PAD District 2. For 2019 forward, refiner prices are available for Pennsylvania only, and not the U.S. or PAD district or subdistrict levels. SEDS estimates the U.S. end-user price by applying the growth rate of the U.S. sales for resale price to previous year's U.S. end-user price. SEDS assigns the U.S. price to all states except Pennsylvania. SEDS adds state general sales taxes to the state estimated prices.

Physical unit prices: 2015 through 2017

In 2015, the source withholds all kerosene end-user prices. For 2016 and 2017, no U.S. or PADD-level end-user prices are available. For 2015 through 2017, SEDS estimates the U.S. end-user price by applying the growth rate of the U.S. sales for resale price to previous year's U.S. end-user price. SEDS assigns the U.S. price to all states. SEDS adds state general sales taxes to the state estimated prices.

Physical unit prices: 1983 through 2014

Prices of kerosene sold to end users, published in PMA and/or available on the EIA website are used as residential sector prices. The prices, in dollars or cents per gallon (excluding taxes) are available for as few as 1 or as many as 30 states, depending on the year. States with residential kerosene consumption, but no published prices, are assigned their Petroleum Administration for Defense (PAD) district or subdistrict prices as shown in Table TN4.16.

In 1990 and 1991, the PAD District 4 prices of kerosene sold to end users are out-of-range. In 1990, the ratio between the 1989 PAD District 4 end-user price and the U.S. end-user price is applied to the 1990 U.S. end-user price to estimate the PAD District 4 end-user price. Similarly, in 1991, the ratio between the 1992 PAD District 4 end-user price and the U.S. end-user price is applied to the 1991 U.S. end-user price to estimate the PAD District 4 end-user price.

For 1998 through 2002, the PAD District 4 prices of kerosene sold to end users are withheld. The average of the ratios between the end-user price of kerosene and the price of kerosene sold for resale in PAD Subdistricts 1A through 1C and PAD District 2 is applied to the PAD District 4 sales for resale price to estimate the PAD District 4 end-user price for each year.

In 2003, the PAD District 3, 4, and 5 prices of kerosene sold to end users are withheld. For PAD Districts 3 and 4, the average of the ratios between the end-user price and the sales for resale price in PAD Subdistricts 1A through 1C and PAD District 2 is applied to the PAD Districts 3 and 4 resale prices to estimate their end-user prices. The PAD District 5 end-user price is assigned the average of the District's end-user prices in 2001 and 2002.

For 2004 through 2006, only PAD District 1, Subdistrict 1B, and Subdistrict 1C end-user prices for kerosene are available. For PAD Subdistrict 1A, the PAD District 1 end-user prices are assigned. For the other PAD districts, the average of the ratios between the end-user price and the sales for resale price in PAD Subdistricts 1B and 1C is applied to the missing districts' resale prices to estimate their end-user prices for each year.

For 2007 forward, the end-user prices for kerosene are only available for PAD District 1, Subdistricts 1B and 1C, and for PAD District 3 (2007) and Subdistrict 1A (2007-2009). When PAD Subdistrict 1A price is not available, the PAD District 1 end-user price is assigned. In 2014, end-user price for Subdistrict 1C is also withheld. It is estimated using the 2014 growth rate of the District 1 end-user price. For the other missing PAD district or subdistrict end-user prices, the average of the ratios between end-user prices and the sales for resale prices in PAD Subdistricts 1B and 1C is applied to the missing districts' sales for resale prices to estimate their end-user prices. However, the sales for resale prices for PAD Districts 4 and 5 are also withheld for 2007 forward (except for 2011 District 4 price). In these instances, the year-on-year percentage increase of the U.S. sales for resale prices are applied to the previous year's sales for resale prices of the missing districts. The resulting estimates are then used to calculate the districts' end-user price.

Once missing prices have been assigned, state general sales taxes are then added.

Physical unit prices: 1977 through 1982

Monthly Census division prices and price indices from the Bureau of Labor Statistics PPI are used as the basis for the residential kerosene

Table TN4.16. Kerosene residential and commercial sectors PAD district and subdistrict price assignments, 1983 through 2014

State	Years	Assignments	State	Years	Assignments
AK	1983–2014	District 5	MT	1983–2014	District 4
AL	1986, 1991, 1993, 1996, 1997, 2002–2014	District 3	NC	2006–2014	Subdistrict 1C
AR	1984, 1986–2014	District 3	ND	1983–2014	District 2
AZ	1983–2014	District 5	NE	1983–2014	District 2
CA	1983–2014	District 5	NH	1983, 1984, 1986–1995, 1997, 1998,	Subdistrict 1A
CO	1985–2014	District 4		2001–2014	
CT	1983, 1987–1992, 1994–2014	Subdistrict 1A	NJ	1983, 1984, 1987, 1989, 1994, 1996–1998,	Subdistrict 1B
DC	1983–2005	Subdistrict 1B		2002–2014	
DE	1991–2014	Subdistrict 1B	NM	1983, 1985, 1987–2014	District 3
FL	1985, 2005, 2008–2014	Subdistrict 1C	NV	1983–2014	District 5
GA	1993, 2000, 2004–2014	Subdistrict 1C	NY	2013, 2014	Subdistrict 1B
HI	1983–2014	District 5	OH	2004, 2006, 2008–2014	District 2
IA	1983–2014	District 2	OK	1983, 1987–1998, 2000–2014	District 2
ID	1983–2014	District 4	OR	1983–2014	District 5
IL	1987, 2000, 2003–2014	District 2	RI	1983, 1988–1992, 1994–2014	Subdistrict 1A
IN	1996, 1997, 1999–2014	District 2	SC	1993, 2004, 2006–2014	Subdistrict 1C
KS	1983–2014	District 2	SD	1983–2014	District 2
KY	1983, 1999–2014	District 2	TN	2004–2014	District 2
LA	1991–2000, 2004–2014	District 3	TX	1993–1996, 1998, 1999, 2002–2014	District 3
MA	2002, 2004–2006, 2012, 2014	Subdistrict 1A	UT	1983–2014	District 4
MD	1998–2014	Subdistrict 1B	VA	2000, 2006–2014	Subdistrict 1C
ME	1986–2014	Subdistrict 1A	VT	1984, 1985, 1989–1998, 2000–2014	Subdistrict 1A
MI	1993, 2004–2014	District 2	WA	1983–2014	District 5
MN	1983, 1985, 1990, 1992–1998, 2000–2014	District 2	WI	1983–1997, 1999–2014	District 2
MO	1987–1989, 1991–2014	District 2	WV	2006–2014	Subdistrict 1C
MS	1988, 1989, 1991–2014	District 3	WY	1983–2014	District 4

series from 1977 through 1982. To maintain consistency in the agricultural price series used for 1970 through 1976, the PPI prices are multiplied by an adjustment factor that accounts for the relationship between PPI and *Agricultural Prices* data for quarters in which the two series overlap. In the description of computational procedures below, the adjustment factor is derived first, the PPI prices for 1977 through 1982 are estimated, and the final kerosene physical unit and Btu prices for states are calculated. The final residential sector kerosene prices approximate the average prices paid by farmers. Taxes are included in the source data from *Agricultural Prices* and are, therefore, reflected in the final price estimates.

The first step is to compute the adjustment factor relating PPI and *Agricultural Prices* data.

1. Monthly PPI prices for the 18 months covered from July 1975 through December 1976 are calculated from the July 1975 base prices and monthly indices for Census divisions.
2. The calculated Census division monthly prices are assigned to each state within the respective Census division.
3. Volume-weighted quarterly PPI-based prices for states are calculated by using the monthly volume weights developed from *Retail Sales and Inventories* sales data for “other distillate fuel oil.”
4. The adjustment factor relating PPI *and Agricultural Prices* data is calculated as the simple average of the ratios of the quarterly kerosene price by state from *Agricultural Prices* to the calculated quarterly PPI-based kerosene prices by state.

The next step is the calculation of monthly state-level prices from PPI kerosene Census division data for 1977 through 1982.

1. Monthly Census division PPI prices are calculated by using the July 1975 base prices and the monthly price indices for 1977 through 1982. The missing monthly indices for February, June, July, and October 1980 for the East South Central Division are assumed to be equal to the index for the preceding month.
2. Each state is assigned its respective Census division monthly prices.

The next step is the calculation of annual physical unit state prices.

1. Annual PPI-based physical unit prices for states are computed from the monthly PPI prices and the monthly consumption weights.
2. Final residential kerosene prices for states are estimated as the product of the annual PPI-based state price and the adjustment factor calculated above.

Physical unit prices: 1970 through 1976

Physical unit prices for states are calculated from quarterly price data from the U.S. Department of Agriculture's *Agricultural Prices* and consumption weights derived from EIA's *Retail Sales and Inventories of Fuel Oil*. Taxes are included in the source data.

The quarterly physical unit price data from *Agricultural Prices* for 1970 through 1976 are published in several different forms. The first step in the calculation of prices for these years is to organize the published *Agricultural Prices* data into a consistent form.

1. For 1971 through 1973, no quarterly prices are available for CT, MA, ME, NH, RI, and VT. Each of these states is assigned the quarterly prices reported for the New England Census Division.
2. For 1973, combined MD/DE quarterly prices are reported instead of separate state prices. For this year, the combined prices are assigned to both states.
3. No prices are reported for AK and DC for 1970 through 1976. Quarterly weighted Census division prices are assigned to AK, and MD prices are assigned to DC for these years.

To weight the quarterly prices from *Agricultural Prices* into annual state prices, monthly quantity weights are calculated from *Retail Sales and Inventories of Fuel Oil*. This assumes that the "other distillate oil" consumption data by PAD districts or subdistricts is kerosene.

1. Monthly weights are computed by using simple averaging of all available "other distillate oil" sales data for each month for each PAD district or subdistrict. Because data are available from November 1978 to March 1981, some months have averages based on three data points, while others are based on one or two data points. For example, the average weight for March is the simple average of the 1979, 1980, and 1981 March volumes published in *Retail Sales and Inventories of Fuel Oil*.
2. Each month's share of average annual sales is calculated by PAD district or subdistrict from the average monthly sales figures. These shares, which become the monthly weights, are then assigned to each state within its respective district or subdistrict.

Final state annual kerosene physical unit prices are calculated as the weighted average of the *Agricultural Prices* quarterly prices. The monthly weights (shares) are converted to quarterly weights by summing the shares for months within a particular quarter. These same weights are used with the state-level price data for each year from 1970 to 1976.

Alaska Btu prices: 1970 through 1979

Kerosene residential prices for AK are estimated on the basis of the assumption that the ratio of AK-to-U.S. kerosene residential prices is the same as the ratio of AK-to-U.S. distillate fuel oil residential prices.

Btu prices: all years

First, SEDS converts the physical unit prices, in dollars per gallon, to dollars per barrel (42 gallons per barrel). Then SEDS converts the prices to Btu prices, in dollars per million Btu, using the kerosene conversion factor (5.670 million Btu per barrel). SEDS calculates U.S. Btu prices as the average of the state Btu prices, weighted by SEDS consumption data.

Data sources

Prices

2022 forward: Regression equations using historical SEDS residential price estimates; EIA annual average U.S. No. 2 residential heating oil prices https://www.eia.gov/dnav/pet/pet_pri_wfr_a_EPD2F_PRS_dpgal_m.htm; annual average NYSERDA "New York State" retail kerosene prices https://www.nyserda.ny.gov/Energy-Prices/Kerosene/Average-Kerosene-Prices; annual Refinitiv, an LSEG business, crude oil Cushing, OK WTI spot price FOB, as republished on EIA's website https://www.eia.gov/dnav/pet/hist/LeafHandler.ashx?n=PET&s=RWTC&f=A.

2010 through 2021: EIA, Petroleum & Other Liquids data website, Refiner Petroleum Product Prices by Sales Type, End Users—Kerosene, https://www.eia.gov/dnav/pet/pet_pri_refoth_a_EPPK_PTG_dpgal_a.htm; EIA, Petroleum & Other Liquids data website, Refiner Petroleum Product Prices by Sales Type, Resale—Kerosene, https://www.eia.gov/dnav/pet/pet_pri_refoth_a_EPPK_PWG_dpgal_a.htm.

1983 through 2009: EIA, *Petroleum Marketing Annual,* also available at https://www.eia.gov/dnav/pet/pet_pri_refoth_a_EPPK_PTG_dpgal_a.htm and https://www.eia.gov/dnav/pet/pet_pri_refoth_a_EPPK_PWG_dpgal_a.htm, select Excel file labled "Download Series History."

1975 through 1982: Bureau of Labor Statistics, U.S. Department of Labor, *Producer Prices and Price Indexes, Supplement,* table titled "Producer price indexes for refined petroleum products by region."

1978 through 1981: EIA, *Retail Sales and Inventories of Fuel Oil,* Table 2.

1970 through 1976: Crop Reporting Board, U.S. Department of Agriculture, *Agricultural Prices*, table titled "Household Supplies: Average Price Paid by Farmers for Lawn Mowers and Petroleum Products."

Taxes

For 1992 forward, SEDS calculates an annual average general sales tax for each state as a simple average of the 12 monthly values. This method takes into account tax changes during the year. Before 1992, SEDS uses the September 1st state general sales tax for each year.

For 2009, the Federation of Tax Administrators did not publish state general sales tax data, but did publish state general sales tax data for 2010.

Therefore, SEDS estimated the 2009 tax rates by comparing the Federation of Tax Administrators' 2008 and 2010 rates for each state. If no change occurred between 2008 and 2010, SEDS assumes the rate remained constant in 2009. If a rate did change between those years, SEDS consulted the State Department of Revenue to determine the effective date of the rate change.

1996 forward: Federation of Tax Administrators, https://www.taxadmin.org/current-tax-rates.

1995: The Council of State Governments, *The Book of the States 1994-95* and *1996-97,* Table 6.21.

1994: U.S. Advisory Committee on Intergovernmental Relations, *Significant Features of Fiscal Federalism,* Tables 14 and 26.

1993: Census Bureau, U.S. Department of Commerce, *State Tax Review*, Volume 54, No. 31, map titled "State Gasoline, Sales and Cigarette Tax Rates as of July 1, 1993."

1983 through 1992: Census Bureau, U.S. Department of Commerce, *State Government Tax Collections*, table titled "State Government Excises on General Sales, Motor Fuel, and Cigarettes, Beginning and End of Fiscal Year," column "Percentage rate, Sept. 1."

Consumption

1970 forward: EIA, State Energy Data System, residential sector kerosene consumption.

Conversion factor: all years

5.670 million Btu per barrel.

Commercial sector

SEDS estimates commercial sector kerosene prices using different data sources and estimation methods, depending on the year. For 1970 through 1982, SEDS assumes commercial sector kerosene prices are equal to the industrial sector prices. For 1983 through 2009, SEDS directly uses prices of kerosene sales to end users (excluding taxes) from EIA's *Petroleum Marketing Annual* (PMA). For 2010 through 2021, PMA is no longer available, but the same set of physical unit prices in dollars per gallon (excluding taxes) are available on the EIA website. For 2022 forward, EIA suspended its survey EIA-782 and no physical unit prices are available, so SEDS estimates using regression equations. SEDS adds state general sales taxes from the U.S. Census Bureau and successor sources.

Physical unit prices: 2022 forward

For 2022 forward, EIA suspended its survey EIA-782 that provided the data and no physical unit prices are available, so SEDS estimates prices using regression equations. The regression equation for each state uses the historical SEDS commercial price for 2010 through 2021 as the Y dependent variable and three X independent variables—the annual average U.S. No. 2 residential heating oil price, the annual average NYSERDA New York "statewide" retail kerosene price, and the Refinitiv crude oil Cushing, OK WTI spot price FOB. After the regression output, SEDS adds state general sales taxes.

Physical unit prices: 2018 through 2021

SEDS estimates commercial kerosene prices as the prices of kerosene sold to end users by refiners, published on the EIA website. If a state has no published price, SEDS assigns the corresponding published Petroleum Administration for Defense (PAD) district or subdistrict price. If no PAD district or subdistrict price is available, SEDS assigns the U.S. price to those states. In 2018, refiners prices are available for Minnesota, New York, Pennsylvania, and PAD Subdistrict 1B and PAD District 2. For 2019 forward, refiner prices are available for Pennsylvania only, and not the U.S. or PAD district or subdistrict levels. SEDS estimates the U.S. end-user price by applying the growth rate of the U.S. sales for resale price to previous year's U.S. end-user price. SEDS assigns the U.S. price to all states except Pennsylvania. SEDS adds state general sales taxes to the state estimated prices.

Physical unit prices: 2015 through 2017

In 2015, the source withholds all kerosene end-user prices. For 2016 and 2017, no U.S. or PADD-level end-user prices are available. For 2015 through 2017, SEDS estimates the U.S. end-user price by applying the growth rate of the U.S. sales for resale price to previous year's U.S. end-user price. SEDS assigns the U.S. price to all states. SEDS adds state general sales taxes to the state estimated prices.

Physical unit prices: 1983 through 2014

Prices of kerosene sold to end users, published in PMA, are used as commercial sector prices. The prices, in dollars or cents per gallon (excluding taxes) are available for as few as 1 or as many as 30 states, depending on the year. States with commercial kerosene consumption, but no PMA published prices, are assigned their Petroleum Administration for Defense (PAD) district or subdistrict prices as shown in Table TN4.16.

In 1990 and 1991, the PAD District 4 prices of kerosene sold to end users are out-of-range. In 1990, the ratio between the 1989 PAD District 4 end-user price and the U.S. end-user price is applied to the 1990 U.S. end-user price to estimate the PAD District 4 end-user price. Similarly, in 1991, the ratio between the 1992 PAD District 4 end-user price and the U.S. end-user price is applied to the 1991 U.S. end-user price to estimate the PAD District 4 end-user price.

For 1998 through 2002, the PAD District 4 prices of kerosene sold to end users are withheld. The average of the ratios between the end-user price of kerosene and the price of kerosene sold for resale in PAD Subdistricts 1A through 1C and PAD District 2 is applied to the PAD District 4 sales for resale price to estimate the PAD District 4 end-user price for each year.

In 2003, the PAD District 3, 4, and 5 prices of kerosene sold to end users are withheld. For PAD Districts 3 and 4, the average of the ratios between the end-user price and the sales for resale price in PAD Subdistricts 1A through 1C and PAD District 2 is applied to the PAD Districts 3 and 4 resale prices to estimate their end-user prices. The PAD District 5 end-user price is assigned the average of the District's end-user prices in 2001 and 2002.

For 2004 through 2006, only PAD District 1, Subdistrict 1B, and Subdistrict 1C end-user prices are available. For PAD Subdistrict 1A, the PAD District 1 end-user prices are assigned. For the other PAD districts, the average of the ratios between the end-user price and the sales for resale price in PAD Subdistricts 1B and 1C is applied to the districts' sales for resale prices to estimate their end-user prices for each year.

For 2007 forward, the end-user prices for kerosene are only available for PAD District 1, Subdistricts 1B and 1C, and for PAD District 3 (2007) and Subdistrict 1A (2007-2009). When PAD Subdistrict 1A price is not available, the PAD District 1 end-user price is assigned. In 2014, end-user price for Subdistrict 1C is also withheld. It is estimated using the 2014 growth rate of the District 1 end-user price. For the other missing PAD district or subdistrict end-user prices, the average of the ratios between end-user prices and the sales for resale prices in PAD Subdistricts 1B and 1C is applied to the missing districts' sales for resale prices to estimate their end-user prices. However, the sales for resale prices for PAD Districts 4 and 5 are also withheld for 2007 forward (except for 2011 District 4 price). In these instances, the year-on-year percentage increase of the U.S. sales for resale prices are applied to the previous year's sales for resale prices of the missing districts. The resulting estimates are then used to calculate the districts' end-user prices.

Once missing prices have been assigned, state general sales taxes are then added.

Physical unit prices: 1970 through 1982

For 1970 through 1982, state prices for kerosene sold to the industrial sector are assigned to the commercial sector.

Btu prices: all years

First, SEDS converts the physical unit prices, in dollars per gallon, to dollars per barrel (42 gallons per barrel). Then SEDS converts the prices to Btu prices, in dollars per million Btu, using the kerosene conversion

factor (5.670 million Btu per barrel). SEDS calculates U.S. Btu prices as the average of the state Btu prices, weighted by SEDS consumption data.

Data sources

Prices

2022 forward: Regression equations using historical SEDS commercial price estimates; EIA annual average U.S. No. 2 residential heating oil prices https://www.eia.gov/dnav/pet/pet_pri_wfr_a_EPD2F_PRS_dpgal_m.htm; annual average NYSERDA "New York State" retail kerosene prices https://www.nyserda.ny.gov/Energy-Prices/Kerosene/Average-Kerosene-Prices; annual Refinitiv, an LSEG business, crude oil Cushing, OK WTI spot price FOB, as republished on EIA's website https://www.eia.gov/dnav/pet/hist/LeafHandler.ashx?n=PET&s=RWTC&f=A.

2010 through 2021: EIA, Petroleum & Other Liquids data website, Refiner Petroleum Product Prices by Sales Type, End Users—Kerosene, https://www.eia.gov/dnav/pet/pet_pri_refoth_a_EPPK_PTG_dpgal_a.htm; EIA, Petroleum & Other Liquids data website, Refiner Petroleum Product Prices by Sales Type, Resale—Kerosene, https://www.eia.gov/dnav/pet/pet_pri_refoth_a_EPPK_PWG_dpgal_a.htm.

1983 through 2009: EIA *Petroleum Marketing Annual,* also available at https://www.eia.gov/dnav/pet/pet_pri_refoth_a_EPPK_PTG_dpgal_a.htm and https://www.eia.gov/dnav/pet/pet_pri_refoth_a_EPPK_PWG_dpgal_a.htm, select Excel file labled "Download Series History."

1970 through 1982: Industrial sector kerosene prices from SEDS.

Taxes

For 1992 forward, SEDS calculates an annual average general sales tax for each state as a simple average of the 12 monthly values. This method takes into account tax changes during the year. Before 1992, SEDS uses the September 1st state general sales tax for each year.

For 2009, the Federation of Tax Administrators did not publish state general sales tax data, but did publish state general sales tax data for 2010.

Therefore, SEDS estimated the 2009 tax rates by comparing the Federation of Tax Administrators' 2008 and 2010 rates for each state. If no change occurred between 2008 and 2010, SEDS assumes the rate remained constant in 2009. If a rate did change between those years, SEDS consulted the State Department of Revenue to determine the effective date of the rate change.

1996 forward: Federation of Tax Administrators, https://www.taxadmin.org/current-tax-rates.

1995: The Council of State Governments, *The Book of the States 1994-95* and *1996-97*, Table 6.21.

1994: U.S. Advisory Committee on Intergovernmental Relations, *Significant Features of Fiscal Federalism*, Tables 14 and 26.

1993: Census Bureau, U.S. Department of Commerce, *State Tax Review*, Volume 54, No. 31, map titled "State Gasoline, Sales and Cigarette Tax Rates as of July 1, 1993."

1983 through 1992: Census Bureau, U.S. Department of Commerce, *State Government Tax Collections*, table titled "State Government Excises on General Sales, Motor Fuel, and Cigarettes, Beginning and End of Fiscal Year," column "Percentage rate, Sept. 1."

Consumption

1970 forward: EIA, State Energy Data System, commercial sector kerosene consumption.

Conversion factor: all years

5.670 million Btu per barrel.

Industrial sector

SEDS estimates industrial sector kerosene prices using different data sources and estimation methods, depending on the year. For 1983 through 2009, SEDS directly uses prices of kerosene sold for resale (excluding taxes) from EIA's *Petroleum Marketing Annual* (PMA). For 2010 through 2021, PMA is no longer available, but the same set of physical unit prices in dollars per gallon (excluding taxes) are available on the EIA website. For 2022 forward, EIA suspended its survey EIA-782 and no physical unit prices are available, so SEDS estimates using regression equations. SEDS adds state general sales taxes from the U.S. Census Bureau and successor sources.

For 1970 through 1982, SEDS estimates industrial sector kerosene prices using producer price and price index data, and the historical SEDS industrial sector distillate fuel oil prices. The methods are slightly different for 1970 through 1974 and 1975 through 1982. For 1970 through 1982, SEDS first calculates physical unit prices; then SEDS converts to Btu prices using the kerosene conversion factor. Taxes are included in the distillate fuel oil prices and are, therefore, reflected in the kerosene price

Table TN4.17. Kerosene industrial sector PAD district and subdistrict price assignments, 1983 through 2021

State	Years	Assignments	State	Years	Assignments
AK	1983–2021	District 5	NC	2013–2016	Subdistrict 1C
AL	2007, 2012–2021	District 3	ND	1983–1993, 1997, 1999–2021	District 2
AR	1997, 1998, 2002, 2006–2021	District 3	NE	1988, 1991, 2000, 2001, 2007–2021	District 2
AZ	1983–2021	District 5	NH	1983, 1990, 1992, 1993, 1995–1998, 2000,	Subdistrict 1A
CA	1992, 1993, 2002, 2003, 2005–2021	District 5		2002, 2005, 2007–2021	
CO	1985–1997, 1999, 2000, 2006–2021	District 4	NJ	2021	Subdistrict 1B
CT	1995, 1998, 1999, 2000, 2006, 2010–2021	Subdistrict 1A	NM	1994, 1995, 1997–1999, 2004–2006, 2009–2021	District 3
DC	1983, 1986, 1988, 1991, 1996, 1997, 1999, 2016, 2021	Subdistrict 1B	NV	1983–2021	District 5
DE	1995–1998, 2003–2021	Subdistrict 1B	NY	2015–2017	Subdistrict 1B
FL	2006–2021	Subdistrict 1C	OH	2005, 2006, 2009, 2010, 2012–2020	District 2
GA	2009, 2010, 2012–2018, 2020, 2021	Subdistrict 1C	OK	2006–2021	District 2
HI	1983–2018, 2021	District 5	OR	1983–1993, 1999–2021	District 5
IA	2008, 2010–2021	District 2	PA	2019, 2021	Subdistrict 1B
ID	1983–1997, 1999–2021	District 4	RI	1990–1992, 1995, 1998–2003, 2005–2008,	Subdistrict 1A
IL	2008, 2012–2021	District 2		2011–2016, 2019–2021	
IN	2009, 2012, 2014–2016	District 2	SC	2010, 2012, 2014–2016, 2018, 2020, 2021	Subdistrict 1C
KS	2007–2009, 2012, 2016–2021	District 2	SD	1983–1993, 2000–2021	District 2
KY	2000, 2006–2021	District 2	TN	2010–2016, 2018, 2021	District 2
LA	2003, 2007, 2008, 2010, 2013–2021	District 3	TX	2003–2006, 2010, 2013–2016, 2018, 2021	District 3
MA	2001, 2004–2021	Subdistrict 1A	UT	1983–2021	District 4
MD	2010–2021	Subdistrict 1B	VA	2012–2016, 2018–2021	Subdistrict 1C
ME	1989, 2007–2021	Subdistrict 1A	VT	1992, 1993, 1995, 1998, 2000–2002, 2004–2021	Subdistrict 1A
MI	2001, 2003–2006, 2008–2021	District 2	WA	1983–1991, 1993, 1999–2021	District 5
MN	2000–2002, 2006, 2010, 2012, 2013, 2015, 2019, 2021	District 2	WI	2010, 2012, 2014, 2016, 2019–2021	District 2
MO	2008–2021	District 2	WV	2008–2021	Subdistrict 1C
MS	1987–1994, 1997–2005, 2009, 2011, 2012, 2014–2021	District 3	WY	1983–2001, 2003–2021	District 4
MT	1983–1993, 1998–2008, 2010–2021	District 4			

estimates.

Physical unit prices: 2022 forward

For 2022 forward, EIA suspended its survey EIA-782 that provided the data and no physical unit prices are available, so SEDS estimates prices using regression equations. The regression equation for each state uses the historical SEDS industrial price for 2010 through 2021 as the Y dependent variable and three X independent variables—the annual average U.S. No. 2 residential heating oil price, the annual average NYSERDA New York "statewide" retail kerosene price, and the Refinitiv crude oil Cushing, OK WTI spot price FOB. After the regression output, SEDS adds state general sales taxes.

Physical unit prices: 1983 through 2021

SEDS estimates industrial kerosene prices as the prices of kerosene sold for resale. The prices, in dollars or cents per gallon (excluding taxes), are generally available for 7 to more than 30 states, depending on the year. If a state has no published price, SEDS assigns the corresponding Petroleum Administration for Defense (PAD) district or subdistrict price, as shown in Table TN4.17. In 2003, the source withholds the PAD District 5 sales for resale price and SEDS estimates it as the average of the 2001, 2002, and 2004 PAD District 5 sales for resale prices. For 2007 forward, SEDS estimates withheld PAD District 4 (2007-2010 and 2012 forward) and District 5 (2007 forward) prices by applying the year-on-year percentage increases of the U.S. sales for resale prices to the previous year's district price. SEDS estimates withheld PAD Subdistrict 1A (2008, 2010, and 2012 forward) prices by applying the year-on-year percent increase of the PAD District 1 sales for resale price to the previous year's subdistrict price. SEDS then adds state general sales taxes.

Physical unit prices: 1975 through 1982

Physical unit industrial kerosene prices for 1975 through 1982 are estimated from the Bureau of Labor Statistics *Producer Prices and Price Indexes* (PPI) base prices and indices for kerosene and No. 2 distillate oil

and from the industrial sector distillate prices in physical units. The ratio of PPI kerosene prices to PPI distillate prices is used as an adjustment factor to estimate kerosene prices.

Annual wholesale prices are calculated from PPI annual indices for kerosene and No. 2 distillate fuel oil and their respective July 1975 base prices for Census divisions. Annual average distillate price indices for 1976 are estimated as the simple average of monthly indices. Census division prices for both kerosene and fuel oil No. 2 are assigned to each state within the respective Census divisions. The industrial sector physical unit kerosene prices for states are computed by using the distillate industrial physical unit prices and the ratio of PPI kerosene prices to PPI fuel oil No. 2 prices.

Physical unit prices: 1970 through 1974

Physical unit state-level prices for 1970 through 1974 are estimated from the distillate industrial prices and the average ratio of kerosene to distillate prices from PPI for 1975 through 1978. The average annual wholesale price ratio between kerosene and fuel oil No. 2 (distillate) is PPI-based data for the years 1975 through 1978. State-level kerosene industrial physical unit prices are calculated as the product of the ratios and the industrial sector distillate prices for 1970 through 1974.

Btu prices: all years

First, SEDS converts the physical unit prices, in dollars per gallon, to dollars per barrel (42 gallons per barrel). Then SEDS converts the prices to Btu prices, in dollars per million Btu, using the kerosene conversion factor (5.670 million Btu per barrel). SEDS calculates U.S. Btu prices as the average of the state Btu prices, weighted by SEDS consumption data.

Data sources

Prices

2022 forward: Regression equations using historical SEDS industrial price estimates; EIA annual average U.S. No. 2 residential heating oil prices https://www.eia.gov/dnav/pet/pet_pri_wfr_a_EPD2F_PRS_dpgal_m.htm; annual average NYSERDA "New York State" retail kerosene prices https://www.nyserda.ny.gov/Energy-Prices/Kerosene/Average-Kerosene-Price
s; annual Refinitiv, an LSEG business, crude oil Cushing, OK WTI spot price FOB, as republished on EIA's website https://www.eia.gov/dnav/pet/hist/LeafHandler.ashx?n=PET&s=RWTC&f=A.

2010 through 2021: EIA, Petroleum & Other Liquids data website, Refiner Petroleum Product Prices by Sales Type, Resale—Kerosene, https://www.eia.gov/dnav/pet/pet_pri_refoth_a_EPPK_PWG_dpgal_a.htm.

1983 through 2009: EIA *Petroleum Marketing Annual,* also available at https://www.eia.gov/dnav/pet/pet_pri_refoth_a_EPPK_PWG_dpgal_a.htm, select Excel file labeled "Download Series History."

1970 through 1982: Industrial sector distillate fuel oil price estimates for the current and previous year and the industrial sector kerosene price estimates for the previous year are from SEDS.

1975 through 1982: Bureau of Labor Statistics, U.S. Department of Labor, *Producer Prices and Price Indexes, Supplement,* table titled "Producer price indexes for refined petroleum products by region."

Taxes

For 1992 forward, SEDS calculates an annual average general sales tax for each State as an average of the 12 monthly values. This method takes into account tax changes during the year. Before 1992, SEDS uses the September 1st state general sales tax for each year.

For 2009, the Federation of Tax Administrators did not publish state general sales tax data, but did publish state general sales tax data for 2010.

Therefore, SEDS estimated the 2009 tax rates by comparing the Federation of Tax Administrators' 2008 and 2010 rates for each state. If no change occurred between 2008 and 2010, SEDS assumes the rate remained constant in 2009. If a rate did change between those years, SEDS consulted the State Department of Revenue to determine the effective date of the rate change.

1996 forward: Federation of Tax Administrators, https://www.taxadmin.org/current-tax-rates.

1995: The Council of State Governments, *The Book of the States 1994-95 and 1996-97*, Table 6.21.

1994: U.S. Advisory Committee on Intergovernmental Relations, *Significant Features of Fiscal Federalism,* Tables 14 and 26.

1993: Census Bureau, U.S. Department of Commerce, *State Tax Review*, Volume 54, No. 31, map titled "State Gasoline, Sales and Cigarette Tax Rates as of July 1, 1993."

1983 through 1992: Census Bureau, U.S. Department of Commerce, *State Government Tax Collections*, table titled "State Government

Excises on General Sales, Motor Fuel, and Cigarettes, Beginning and End of Fiscal Year," column "Percentage rate, Sept. 1."

Consumption

1970 forward: EIA, State Energy Data System, industrial sector kerosene consumption.

Conversion factor: all years

5.670 million Btu per barrel.

Lubricants

The State Energy Data System (SEDS) estimates lubricant prices for the industrial and transportation sectors. State-level prices are not available for either sector. SEDS assigns annual national-level prices to all states. These prices do not include end-user taxes paid at the time of sale. SEDS uses its lubricant consumption estimates to calculate expenditure estimates for each sector.

Physical unit prices: 1983 forward

SEDS estimates lubricant prices for all sectors by applying the annual growth rate of the producer price index for finished lubricants, compiled by the U.S. Department of Labor, Bureau of Labor Statistics, to the lubricant price estimate from the previous year.

The SEDS original lubricant price estimation method using U.S. Census Bureau data (see Physical unit prices: 1970 through 1982) could not be used after 1982 because the source no longer provided volume of product shipments.

Physical unit prices: 1970 through 1982

SEDS estimates lubricant prices for all sectors using shipment data for three product categories from the U.S. Department of Commerce, Census Bureau:

1. Lubricating oils made in refineries (SIC 29117.21) and not made in refineries (SIC 29920.21).
2. Lubricating greases made in refineries (SIC 29117.31) and not made in refineries (SIC 29920.31).
3. Lubricating oils and greases, not specifically known (n.s.k.), made in refineries (SIC 29117.00) and not made in refineries (SIC 29920.00 for establishments with 10 employees or more and SIC 29920.02 for establishments with fewer than 10 employees).

SEDS uses two sources from the Census Bureau. The *Census of Manufactures* (CM) reports value and volume of shipments by detailed product categories every five years. The *Annual Survey of Manufactures* (AM) reports annual value of shipments but does not have volume data.

For the years where CM data are available (1967, 1972, 1977, and 1982), SEDS calculates the total shipment volume as the sum of the three product categories. The source withholds shipment volumes for the third product category. SEDS estimates these volumes by dividing

its shipment values by the weighted average cost of SIC 29920.21 and 29920.31.

Next, SEDS estimates shipment volumes for the years not covered by CM. For the years where CM data are available, SEDS calculates an annual shipment-to-consumption ratio by dividing the total shipment volume by the estimated SEDS total lubricants consumption (in thousand barrels) for each year. SEDS estimates shipment-to-consumption ratios for the years not covered by CM (1968 through 1971, 1973 through 1976, and 1978 through 1981) using linear interpolation. SEDS estimates total shipment volume for the years not covered by CM as the product of the SEDS consumption data and the annual shipment-to-consumption ratio.

SEDS estimates shipment prices by dividing the total value of shipments for the three product categories shown in CM (for 1972, 1977, and 1982) or AM (for all other years) by the estimated shipment volume. SEDS assumes the shipment prices represent wholesale prices.

SEDS estimates end-user prices, in dollars per barrel, as the product of the shipment (wholesale) prices and the trade ratio factors that represent the wholesale-to-retail markup. SEDS develops the trade ratio factors using Bureau of Economic Analysis (BEA) data for 1972 and 1977. For 1972, SEDS calculates a trade ratio as the sum of data called "purchasers value" for the three product categories divided by the sum of the "producers value" for the three categories. SEDS uses a similar calculation for 1977, but the source data uses the terms "purchase value" and "basic value" instead.

SEDS uses the 1972 ratio for 1970 through 1972, and the 1977 ratio for 1977 forward. SEDS estimates the values for 1973 through 1976 using linear interpolation with the 1972 and 1977 values. The trade ratio for 1982 is not used because BEA expanded the range of petroleum products included in the ratio and the ratio would no longer represent the specific markup for lubricants.

Btu prices: all years

SEDS converts the physical unit prices, in dollars per barrel, to Btu prices by dividing the physical unit prices by the lubricants conversion factor (6.065 million Btu per barrel).

Data sources

Prices

1983 forward: U.S. Department of Labor, Bureau of Labor Statistics, Producer Price Indexes, Commodity Data, Item 0576 Finished Lubricants, not seasonally adjusted (series ID: WPU0576), available at https://www.bls.gov/ppi/data.htm.

1970, 1971, 1973 through 1976, and 1978 through 1981: Census Bureau, U.S. Department of Commerce, *Annual Survey of Manufactures; Lubricating Oils and Greases* (SIC 29117 and 29920).

1972, 1977, and 1982: Census Bureau, U.S. Department of Commerce, *Census of Manufactures, Petroleum Refining; Lubricating Oils and Greases* (SIC 29117 and 29920).

1972 and 1977: Bureau of Economic Analysis, U.S. Department of Commerce, Input-Output Table Work Tapes for (SIC Codes 29117 and 29920).

Consumption

1970 forward: EIA, State Energy Data System, lubricants consumption.

Conversion factor: all years

6.065 million Btu per barrel.

Motor gasoline

The State Energy Data System (SEDS) estimates motor gasoline prices for the transportation sector. SEDS assigns the transportation sector prices to the commercial and industrial sectors. SEDS assumes motor gasoline consumed by privately-owned vehicles is in the transportation sector. SEDS uses its estimates of motor gasoline consumption by sector to calculate expenditures. Prices in this series are retail prices and include federal and state motor fuel taxes. Because of the lack of uniformity in application, the prices do not include state general sales taxes, local fuel taxes, and local sales taxes. Finished motor gasoline includes conventional gasoline, all types of oxygenated gasoline including gasohol, and reformulated gasoline, but excludes aviation gasoline.

Physical unit prices: 2011 forward

The U.S. Energy Information Administration (EIA) suspended the survey form EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report," which was the main source of motor gasoline prices, after data year 2010. For 2011 forward, SEDS estimates physical unit motor gasoline prices for California, Colorado, Florida, Massachusetts, Minnesota, New York, Ohio, Texas, and Washington by applying the annual average growth rates derived from the EIA survey form EIA-878, "Motor Gasoline Price Survey." SEDS estimates the remaining state prices by applying the annual average growth rate of the corresponding Petroleum Administration for Defense (PAD) district or subdistrict price to the previous year's state prices. The prices include state and federal motor gasoline taxes.

Physical unit prices: 2000 through 2010

For 2000 through 2010, motor gasoline physical unit prices are based on the average annual sales prices (excluding taxes) of finished motor gasoline to end users through retail outlets contained in Table 28 of EIA's *Petroleum Marketing Annual* (PMA). This series reflects data collected from refiners, resellers, and retailers in the industry (survey forms EIA-782A and EIA-782B), and provides more comprehensive coverage. Data are available for all states except the District of Columbia, which has prices withheld for some years. In these instances, the price is estimated by applying the change in price for sales for resale (a type of wholesale sales) over the previous year to the previous year's price for sales to end users through retail outlets.

State and federal motor gasoline tax rates are added to the prices from the PMA. State tax information and annual federal tax information are taken from Table EN1 of PMM. EIA updates this table twice a year, reporting the tax rates effective January 1 or July 1. To compile the average tax rates for the year, information on the effective date of rate changes is collected from additional sources. These include State Department of Revenue offices, the U.S. Department of Defense, Defense Energy Support Center, annual report entitled *Compilation of United States Fuel Taxes, Inspection Fees and Environmental Taxes and Fees,* and the U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics* report. They are combined with the federal tax rate to adjust the PMA prices.

Table TN4.18. Motor gasoline price assignments, 1983 through 1999

State	Year	Source
AK	1983–1986	CPI
CT	1989–1999	PMA, PAD Subdistrict 1A
DC	1983–1999	PMA, Wholesale/retail adjustment
DE	1991–1993	PMA, PAD Subdistrict 1B
HI	1983–1986	CPI
	1987–1990	PMA, PAD District 5 adjustment
ID	1993, 1994	PMA, PAD District 4
MD	1985–1999	PMA, Wholesale/retail adjustment
ME	1985–1988, 1990–1999	PMA, PAD Subdistrict 1A
MT	1991–1999	PMA, PAD Subdistrict 4
ND	1996	PMA, PAD District 2
NH	1995	PMA, PAD Subdistrict 1A
SD	1987, 1991, 1992	PMA, PAD District 2
WY	1985	PMA, PAD District 4

Physical unit prices: 1983 through 1999

For 1983 through 1999, motor gasoline physical unit prices are based on the average annual refiner motor gasoline prices (excluding taxes) for sales to end users through retail outlets, published in the PMA. When the state-level prices are not available, the PAD district or subdistrict price is assigned to the state, except for certain states and years, as noted in Table TN4.18, that are derived from sales for resale prices or from the Bureau of Labor Statistics' *Consumer Prices: Energy* (CPI).

State and federal motor gasoline taxes are added to the prices from the PMA. Monthly state tax information and annual federal tax information are taken from the U.S. Department of Transportation's *Highway Statistics.* The monthly state taxes are averaged to create an average annual tax

for each state, which is combined with the federal tax to adjust the PMA price. Due to the lack of uniformity in application, state and local general sales taxes are not included.

Motor gasoline prices for sales to end users through retail outlets are withheld for Maryland and unavailable for the District of Columbia in all years. To derive end-user prices for Maryland each year, the ratio of the prices for sales for resale (a type of wholesale sales) to the prices for sales to end users (retail sales) through company outlets in the neighboring states of Delaware, Pennsylvania, Virginia, and West Virginia are averaged and that average ratio is applied to the sales for resale prices for Maryland. End-user prices for the District of Columbia are derived using the ratio of Virginia's sales for resale prices to end-user prices.

Motor gasoline prices for Hawaii are not available in the PMA prior to 1991. They are also not collected or published in the CPI after December 1986. The following method is used to derive Hawaii prices for 1987 through 1990. The monthly Hawaii CPI prices are used to calculate annual averages for 1983 through 1986. The annual averages are divided by the PMA PAD District 5 price (with Hawaii state and federal taxes added) for each year to develop annual ratios of the two prices. The four ratios for 1983 through 1986 are averaged to give one ratio that is multiplied by the PMA PAD District 5 prices for 1987 through 1990 to estimate Hawaii prices for those years. State and federal taxes are added to the estimates.

In the states and years (shown in Table TN4.18) where prices are derived from the CPI, monthly CPI city prices are weighted by monthly consumption from *Highway Statistics*. All taxes are included in the CPI data.

Physical unit prices: 1982

Monthly physical unit motor gasoline prices for 1982 are taken from the *Platt's Oil Price Handbook and Oilmanac (Platt's)* table "AAA 'Fuel Gauge' Report," the CPI, or both. Table TN4.19 summarizes price data availability by source. The *Platt's* prices are reported for both leaded and unleaded motor gasoline and for both full-service and self-service for all states except AK and HI. All available *Platt's* prices for 1982 are used in the calculation of motor gasoline prices. The continuity of these prices with prices published by *Platt's* in previous years suggests that taxes are included.

The available CPI monthly physical unit motor gasoline prices for 1982 are for all types of motor gasoline and cover 25 states, as shown in Table TN4.18. The CPI prices are assigned to any state that has a county included in the Standard Metropolitan Statistical Area (SMSA) definitions used by the Bureau of Labor Statistics. These "all types" prices cover leaded regular, unleaded regular, and leaded premium and include taxes. All the available CPI prices for 1982 are also used in the calculation of motor gasoline prices. Complete monthly data exist for the 25 states covered by the CPI. The *CPI Detailed Report* of April 1986 explicitly states that federal, state, and local taxes are included.

To combine the product-specific Platt's prices with the "all types" prices published in the CPI, the *Platt's* prices are weighted into "all types" prices by using annual U.S. data from the *Monthly Energy Review* (MER) to calculate shares for leaded and unleaded motor gasoline (no breakdowns

Table TN4.19. Summary of motor gasoline price data by year, 1970 through 1982

Years	Source	Grades covered	Composite price	Missing states all sources
1982	Platt's	leaded	no	none
		unleaded	no	
	CPI	leaded regular	yes	
		leaded premium	yes	
		unleaded regular	yes	
1979–1981	Platt's	leaded regular	no	AR, DE, ME, MS,
		leaded premium	no	MT, ND, NH, OK,
		unleaded regular	no	RI, SC, SD, VT,
		unleaded premium	no	WV, WY
	CPI	leaded regular	yes	
		leaded premium	yes	
		unleaded regular	yes	
1978	Platt's	leaded regular	no	none
	CPI	leaded regular	yes	
		leaded premium	yes	
		unleaded regular	yes	
1976, 1977	Platt's	leaded regular	no	AK
	CPI	leaded regular	no	
		leaded premium	no	
		unleaded regular	no	
1974, 1975	Platt's	leaded regular	no	AK
	CPI	leaded regular	no	
		leaded premium	no	
1970–1973	Platt's	leaded regular	no	AK, HI

for regular and premium are possible because of data limitations).

Motor gasoline price data reported by *Platt's* for 1982 cover the following months: February, April, June, August, November, and December. The missing six months are assigned prices as follows: January is assigned the February price, and the other missing months are assigned the average price of the preceding and succeeding months. A missing February price for MO is assumed to be equal to the April price, and a missing price for OR is assumed to be equal to the average of the April and August prices.

For states with data from *Platt's* only, prices by product type (leaded and unleaded) are first calculated as the simple average of full-service and self-service prices for that product for each month and state. The resulting prices are then weighted into monthly composite prices by using U.S. leaded and unleaded shares of motor gasoline product supplied from the MER. The following 26 states have data only from *Platt's*: AL, AR, AZ, CT, DE, IA, ID, LA, ME, MS, MT, NC, ND, NE, NH, NM, NV, OK, RI, SC, SD, TN, UT, VT, WV, and WY.

Platt's reports two prices for each motor gasoline product for each year: one full-service price and one self-service price. These two prices are combined by using a simple average into a single product price for each state for each month.

The unleaded U.S. share of total motor gasoline consumption is reported in the MER as 52.1% in 1982. Assuming that the remaining motor gasoline consumption is leaded, the leaded portion of total consumption is 47.9%. These shares are used for all states and months to calculate the composite prices from the leaded and unleaded prices.

For AK and HI, the only states with data only from the CPI, the "all types" monthly prices reported are used directly as monthly composite prices.

For states with price data from both *Platt's* and the CPI, the *Platt's* data are first combined into product type prices and weighted with the MER shares. The resulting combined prices for all motor gasoline types are averaged together, with the combined CPI city prices assigned to the respective month and state. The following 23 states have monthly composite prices computed in this way: CA, CO, DC, FL, GA, IL, IN, KS, KY, MA, MD, MI, MN, MO, NJ, NY, OH, OR, PA, TX, VA, WA, and WI.

1. Leaded and unleaded gasoline prices are calculated as simple averages of full-service and self-service prices from *Platt's* and are then weighted into a composite price by using MER shares of leaded and unleaded motor gasoline consumption.

For 1979 through 1981, *Platt's* monthly motor gasoline prices are taken from a table titled "Platt's/Lundberg Summary." Prices are available for cities by product-type, by grade, and by type of service (full service, self service). Four products and grades of motor gasoline are covered: leaded regular, unleaded regular, leaded premium, and unleaded premium. These data cover 37 states and taxes are included. The CPI reports "all types" prices, including taxes, for the cities listed in Table TN4.20. *Platt's* city price assignments to states for 1979 through 1981 are shown in Table TN4.21.

The computation of monthly composite prices for 1979 through 1981 varies, depending on the available data sources for each state. Monthly composite prices are estimated for the 14 states which do not have reported price data from either data source. If both *Platt's* and the CPI report prices for a city, the CPI price is used.

1. For states with city price observations only from *Platt's*, prices for leaded and unleaded motor gasoline are combined by use of simple averaging, regardless of the type of service, and are converted to dollars per gallon. The leaded and unleaded prices are then weighted together into a monthly composite price. The following 12 states have prices only from *Platt's* for 1979 through 1981: AL, AZ, CT, IA, ID, LA, NC, NE, NM, NV, TN, and UT.
   a. The *Platt's* prices for 1981 end in September of that year; monthly prices by grade and service type for October, November, and December are assumed to be equal to the corresponding September prices.
   b. Leaded and unleaded prices are calculated for each state by using a simple average of all prices available for each product (leaded, unleaded), regardless of service type or grade of motor gasoline (regular, premium). All city prices for each state are averaged together.
   c. Leaded and unleaded shares of total motor gasoline consumption for the United States are calculated from the MER for each year 1979 through 1981. The monthly product type prices are weighted into composite prices by using the national leaded and unleaded shares as weights.
2. For states with city price observations only from the CPI, the monthly "all types" prices are used directly for states with only one price observation per month. For states with multiple observations, monthly prices are combined by simple averaging. States with CPI data only are: AK, CO, DC, GA, HI, IL, KS, MA, MD, MI, MN, MO, NJ, OH, OR, PA, and WI.

Table TN4.20. Motor gasoline price assignments from consumer prices: energy, 1978 through 1982

State	City price assignments
AK	Anchorage
CA	Los Angeles-Long Beach-Anaheim, San Dego, San Francisco, Oakland
CO	Denver-Boulder
DC	Washington
FL	Miami
GA	Atlanta
HI	Honolulu
IL	Chicago-Northwestern Indiana, St. Louis
IN	Chicago-Northwestern Indiana, Cincinnati
KS	Kansas City
KY	Cincinnati
MA	Boston
MD	Baltimore, Washington
MI	Detroit
MN	Minneapolis-St. Paul
MO	St. Louis, Kansas City
NJ	New York-Northeastern NJ, Philadelphia
NY	New York-Northeastern NJ, Buffalo
OH	Cincinnati, Cleveland
OR	Portland
PA	Philadelphia, Northeastern PA, Pittsburgh
TX	Dallas-Ft. Worth, Houston
VA	Washington
WA	Seattle-Everett, Portland
WI	Milwaukee, Minneapolis-St. Paul

Note: All types of motor gasoline are included.

2. Monthly "all types" motor gasoline prices covering leaded regular, leaded premium, and unleaded regular are taken directly from the CPI. If there is more than one CPI price observation for a month and state, the CPI prices are simple averages.

3. Using a simple average, the composite *Platt's* prices are combined with the "all types" CPI prices for each state. The resulting prices are the monthly composite prices for 1982.

Annual physical unit prices for all states are calculated from the monthly motor gasoline prices calculated above and weighted by the monthly motor gasoline consumption volumes for states from *Highway Statistics*.

Physical unit prices: 1979 through 1981

Table TN4.21. Motor gasoline price assignments from Platt's, 1979 through 1981

State	City price assignments
AL	Birmingham
AZ	Phoenix, Tucson
CA	Bakersfield, Fresno, Los Angeles, Sacramento, San Diego, San Francisco, Stockton
CO	Denver
CT	New Haven
DC	Washington
FL	Miami, Tampa- St. Petersburg
GA	Atlanta
IA	Des Moines
ID	Boise
IL	Chicago
IN	Indianapolis
KY	Louisville
LA	New Orleans
MA	Boston
MD	Baltimore
MI	Detroit
MN	Minneapolis
MO	Kansas City, St. Louis
NE	Omaha
NJ	Newark
NM	Albuquerque
NV	Las Vegas, Reno
NY	Long Island, Rochester
OH	Cincinnati
OR	Portland
PA	Philadelphia, Pittsburgh
TN	Memphis
TX	El Paso, Houston
UT	Salt Lake City
VA	Norfolk
WA	Seattle, Spokane
WI	Milwaukee

3. For the eight states with price observations from both Platt's and the CPI (CA, FL, IN, KY, NY, TX, VA, and WA), monthly composite prices for 1979 through 1981 are calculated by using three steps:
   a. The *Platt's* prices are combined into single "all types" prices as described above by using leaded and unleaded grades of motor

gasoline shares as weights.

b. The CPI prices are combined by state.

c. Using simple averaging, the composite *Platt's* price for each state is combined with the "all types" CPI price for that state. The resulting prices are the monthly composite prices for 1979 through 1981.

4. Fourteen states are not covered by price data from either *Platt's* or the CPI in 1979 through 1981. These states are AR, DE, ME, MS, MT, ND, NH, OK, RI, SC, SD, VT, WV, and WY. Monthly composite prices for these states are estimated by using the monthly state-level composite prices for 1982 and Census region monthly prices from the CPI for 1979 through 1982.

   a. The ratio between the 1982 state prices and the 1982 CPI Census region prices corresponding to each state is calculated for use as an adjustment factor in 1979, 1980, and 1981.

   b. The monthly price for each of the 14 missing states is assumed to be the product of the 1982 Census region adjustment factor for that state times the monthly motor gasoline price for that Census region from the CPI.

Annual physical unit prices for all states are calculated from the monthly motor gasoline prices calculated above and weighted by the monthly motor gasoline consumption volumes for states from *Highway Statistics*.

Physical unit prices: 1978

The *Platt's* monthly leaded regular motor gasoline prices cover all states except AK and HI. The *Platt's* city assignments to states are shown in Table TN4.22. In 1978, the CPI motor gasoline coverage was expanded from 21 states to 25 states (28 SMSAs) and an "all types" price was published that covers leaded regular, leaded premium, and unleaded regular. The CPI SMSA assignments to states for 1978 through 1982 are shown in Table TN4.20. Both the CPI and the *Platt's* prices include taxes.

Because both sources report a single price for each city or SMSA, product weights are not needed to compute monthly composite prices. Instead, city price observations are assigned to states, as shown in Table TN4.20 and Table TN4.22. Price observations are combined by using simple averaging by state and month. If both *Platt's* and the CPI cover a city/SMSA, the CPI price is used. *Platt's* prices are converted to dollars per gallon; the CPI prices are already expressed in dollars. All states are covered by the data sources, so no imputation is required for 1978. The following 26 states have prices only from *Platt's*: AL, AR, AZ, CT, DE, IA, ID, LA, ME, MS, MT, NC, ND, NE, NH, NM, NV, OK, RI, SC, SD, TN, UT,

Table TN4.22. Motor gasoline price assignments from Platt's, 1970 through 1978

State	City price assignments
AL	Birmingham
AR	Little Rock
AZ	Phoenix
CA	Los Angeles, San Francisco
CO	Denver
CT	Hartford
DC	Washington
DE	Wilmington
FL	Miami
GA	Atlanta
IA	Des Moines
ID	Boise
IL	Chicago
IN	Indianapolis
KS	Wichita
KY	Louisville
LA	New Orleans
MA	Boston
MD	Baltimore
ME	Portland
MI	Detroit
MN	Twin Cities
MO	St. Louis
MS	Jackson
MT	Great Falls
NC	Charlotte
ND	Fargo
NE	Omaha
NH	Manchester
NJ	Newark
NM	Albuquerque
NV	Reno
NY	Buffalo, New York
OH	Cincinnati, Cleveland
OK	Tulsa
OR	Portland
PA	Philadelphia
RI	Providence
SC	Charleston
SD	Huron
TN	Memphis
TX	Dallas, El Paso, Houston
UT	Salt Lake City
VA	Norfolk
VT	Burlington
WA	Seattle, Spokane
WI	Milwaukee
WV	Charleston
WY	Cheyenne

VT, WV, and WY. The following 19 states are covered only by the CPI: AK, CA, CO, DC, FL, GA, HI, IL, MA, MD, MI, MN, MO, NJ, NY, OH, OR, PA, and WI. Six states have price data from both sources: IN, KS, KY, TX, VA, and WA.

Annual physical unit prices for all states are calculated from the monthly motor gasoline prices calculated above and weighted by the monthly motor gasoline consumption volumes for states from *Highway Statistics*.

Physical unit prices: 1976, 1977

The calculation of monthly composite state prices for 1976 and 1977 depends upon the source of data. Different procedures are used for states with only *Platt's* data, states with only CPI data, and states with both *Platt's* and CPI data. If both data sources cover a city, only the CPI price is used for that city. City price assignments to states are given in Table TN4.22 for *Platt's* and in Table TN4.23 for the CPI. Prices from both sources include taxes. AK is the only state for which prices need to be estimated.

For states with data from *Platt's* only, the monthly prices reported in *Platt's* are used either directly or combined by simple averaging if there is more than one price observation for a state in a given month. The reported prices in cents per gallon are converted to dollars per gallon.

Prices for the following 29 states are calculated by using this procedure and cover only leaded regular motor gasoline: AL, AR, AZ, CO, CT, DE, FL, IA, ID, LA, ME, MS, MT, NC, ND, NE, NH, NM, NV, OK, OR, RI, SC, SD, TN, UT, VT, WV, and WY.

If state-level motor gasoline prices for 1976 and 1977 are available only from the CPI, monthly composite prices are calculated as weighted averages of leaded and unleaded prices. Prices for 15 states are calculated by using data only from the CPI: CA, DC, GA, HI, IL, MA, MD, MI, MN, MO, NJ, NY, OH, PA, and WI.

1. The weights used in this process are national-level shares of leaded and unleaded motor gasoline product supplied. For 1977, the leaded and unleaded share of 0.725 and 0.275, respectively, are taken from the MER. For 1976, MER data for 1977 through 1984 are used to estimate the unleaded share by using simple regression. The unleaded percentages for 1977 through 1984 are converted to shares and used to estimate leaded and unleaded shares of motor gasoline. The resulting 1976 leaded share is 0.744 and the unleaded share is 0.256.
2. The next step is to calculate monthly composite leaded and unleaded prices for each state. If more than one CPI price observation is available for a particular grade of motor gasoline (leaded or unleaded) for a state in a given month, the CPI observations are combined by grade by using simple averaging. Regular and premium prices are averaged for an estimate of state-level leaded prices.
3. Final monthly composite prices for 1976 and 1977 are calculated by using the leaded and unleaded composite prices calculated above and the MER-based leaded and unleaded shares as volume weights.

For states with price data from both *Platt's* and the CPI, all price observations are averaged together by product type. If both sources report prices for a city, the CPI price is used. Once composite leaded and unleaded prices have been calculated separately for each state, the leaded and unleaded consumption shares are used to weight the product-type prices into the final monthly composite motor gasoline

Table TN4.23. Motor gasoline price assignments from consumer prices: energy, 1974 through 1977

State	City price assignments
CA	Los Angeles-Long Beach, San Diego, San Francisco-Oakland
DC	Washington
GA	Atlanta
HI	Honolulu
IL	Chicago, St. Louis
IN	Cincinnati, Chicago
KS	Kansas City
KY	Cincinnati
MA	Boston
MD	Baltimore, Washington
MI	Detroit
MN	Minneapolis-St. Paul
MO	St. Louis, Kansas City
NJ	New York-Northeastern NJ, Philadelphia
NY	Buffalo, New York-Northeastern NJ
OH	Cincinnati, Cleveland
PA	Philadelphia, Pittsburgh
TX	Dallas, Houston
VA	Washington
WA	Seattle
WI	Milwaukee, Minneapolis-St. Paul

Note: Prices are available separately for leaded regular, leaded premium, and unleaded regular (1976, 1977); "all types" prices are not available.

prices. Six states are calculated with data from both *Platt's* and the CPI: IN, KS, KY, TX, VA, and WA.

1. Monthly leaded composite prices are calculated by combining *Platt's* prices with the CPI prices for leaded regular and premium motor gasoline by month, because the *Platt's* prices cover only regular leaded fuel. If both data sources cover a city, the CPI prices are used.
2. Because the CPI is the only source of unleaded gasoline price data for 1976 through 1977, monthly unleaded composite prices are calculated from CPI data only.
3. Final monthly composite prices for the six states with price data from both *Platt's* and the CPI are calculated by using annual U.S. leaded and unleaded shares and leaded and unleaded monthly composite prices.

Prices for 1976 and 1977 for AK, the only state not covered by price data from either data source, are estimated on the basis of the average relationship between the state and the national average price for years in which data are available. The national average price used for these estimations is a simple average of the prices of the 49 states for which data are available in all years (i.e., excluding AK and HI for all years). Annual prices for AK are estimated on the basis of the average AK-to-U.S. price relationship for 1978 and 1979.

Annual physical unit prices (excluding AK) are calculated from the monthly motor gasoline prices calculated above and weighted by the monthly motor gasoline consumption volumes for states from *Highway Statistics.*

Physical unit prices: 1974, 1975

The *Platt's* price data for 1974 through 1975 cover only leaded regular motor gasoline. Beginning in 1974, motor gasoline price data are also available from the CPI for selected SMSAs. An SMSA price is assigned to each state with counties included in the definition of that SMSA; for the years 1974 through 1977, prices for 23 SMSAs cover 21 states. The state assignments of SMSA prices for 1974 through 1977 are given in Table TN4.23. For 1974 and 1975, CPI prices are reported separately for leaded regular and leaded premium motor gasoline. According to the April 1986 *CPI Detailed Report*, these prices include taxes; the *Platt's* prices also include taxes. AK is the only state not covered by either of these two data sources; prices for AK are imputed for 1974 and 1975.

The *Platt's* regular leaded prices and the CPI regular and premium leaded motor gasoline prices, including taxes, are assigned to their respective states, as shown in Table TN4.22 and Table TN4.23. If both sources cover a city, the CPI price is used. The following 29 states are covered only by *Platt's*: AL, AR, AZ, CO, CT, DE, FL, IA, ID, LA, ME, MS, MT, NC, ND, NE, NH, NM, NV, OK, OR, RI, SC, SD, TN, UT, VT, WV, and WY. The following 15 states are covered only by CPI: CA, DC, GA, HI, IL, MA, MD, MI, MN, MO, NJ, NY, OH, PA, and WI. The following six states have both *Platt's* and CPI data for a particular city: IN, KS, KY, TX, VA, and WA.

All price observations assigned to a state, regardless of grade or data source, are added together and divided by the number of observations. As part of this calculation, *Platt's* prices are converted from cents per gallon to dollars per gallon.

Neither *Platt's* nor the CPI reports price data for AK. The methodology of the estimation of annual AK prices is the same as used in 1976 and 1977.

Annual physical unit prices for the remaining 50 states (excluding AK) are calculated from the monthly motor gasoline prices calculated above and weighted by the monthly motor gasoline consumption volumes for states from *Highway Statistics*.

Physical unit prices: 1970 through 1973

Monthly motor gasoline physical unit prices for 1970 through 1973 are available only from *Platt's*, where city prices covering 49 states are reported in a table titled "Service Station Prices: Gasoline (Including Taxes)." These prices, as shown in Table TN4.19, are for leaded regular gasoline only and include taxes.

Monthly average city prices from *Platt's* are assigned to the state in which the city is located. *Platt's* city price assignments to states are given in Table TN4.22.

Monthly composite prices for 1970 through 1973 are equal to the reported monthly *Platt's* prices or, if more than one city is available for a given state in a certain month, are a simple average of the assigned city prices. The reported prices are converted from cents to dollars per gallon.

Platt's does not report data for either AK or HI for 1970 through 1973. The methodology of the estimation of AK and HI prices is the same as that used for 1976 and 1977.

Annual physical unit prices (excluding AK and HI) are calculated from the monthly motor gasoline prices weighted by the monthly motor gasoline consumption volumes for states from *Highway Statistics*.

Btu prices: all years

First, SEDS converts the physical unit prices, in dollars per gallon, to dollars per barrel (42 gallons per barrel). Then SEDS converts the physical unit prices to Btu prices, in dollars per million Btu, using the factor 5.253 million Btu per barrel from 1970 through 1992 and a variable annual factor from 1993 forward. The U.S. Btu prices are the average of the state Btu prices, weighted by SEDS consumption data.

Data sources

Prices

2011 forward: EIA, Petroleum & Other Liquids data website, Weekly Retail Gasoline and Diesel Prices, Gasoline - All Grades, https://www.eia.gov/dnav/pet/pet_pri_gnd_a_epm0_pte_dpgal_a.htm.

2010: EIA, Petroleum & Other Liquids data website, Gasoline Prices by Formulation, Grade, Sales Type, Sales to End Users, Average, Through Retail Outlets, https://www.eia.gov/dnav/pet/pet_pri_allmg_a_EPM0_PTC_dpgal_a.htm.

2000 through 2009: EIA, *Petroleum Marketing Annual*, https://www.eia.gov/oil_gas/petroleum/data_publications/petroleum_marketing_annual/pma_historical.html, Table 31 (2000-2006), and Table 28 (2007-2009), columns titled "All Grades, Sales to End Users, Through Retail Outlets."

1986 through 1999: EIA, *Petroleum Marketing Annual*, https://www.eia.gov/oil_gas/petroleum/data_publications/petroleum_marketing_annual/pma_historical.html, Table 29 (1986-1988) and Table 30 (1989-1993), columns titled "All Refiners, Sales to End Users, Through Company Outlets" and "All Refiners, Sales for Resale," and Table 35 (1994-1999), columns titled "All Grades, Sales to End Users, Through Retail Outlets" and "All Grades, Sales for Resale."

1983 through 1985: EIA, *Petroleum Marketing Annual 1985*, Volume 1, Table 16, columns titled "All Refiners and Gas Plant Operators, Sales to End Users, Through Company Outlets" and "All Refiners and Gas Plant Operators, Sales for Resale."

1974 through 1986: Bureau of Labor Statistics, U.S. Department of Labor, *Consumer Prices: Energy*, computer printouts of monthly gasoline prices.

1983 through 1986: Federal Highway Administration, U.S. Department of Transportation, *Highway Statistics*, Tables MF-26 (1983-1993) and MF-33GA (1994 and 1995).

1970 through 1982: McGraw-Hill, Inc., *Platt's Oil Price Handbook and Oilmanac*, table titled "AAA 'Fuel-gauge' Report" (1982); table titled "Platt's/Lundberg Summary," (1979-1981); and table titled "Service Station Prices: Gasoline (Including Taxes)," (1970-1978).

1974 through 1982: Bureau of Labor Statistics, *CPI Detailed Report*, April 1986, technical notes, page 110.

1982: EIA, Form EIA-25, "Prime Supplier Monthly Report," computer tape, unpublished data.

1976 through 1984: EIA, *Monthly Energy Review*, January 1985, table titled "Petroleum: Finished Motor Gasoline Supply and Disposition."

Taxes

2000 through 2010: EIA, *Petroleum Marketing Monthly*, https://www.eia.gov/petroleum/marketing/monthly/, Table EN1, column titled "Motor Gasoline," supplemented with information from state revenue offices and the Federal Highway Administration, U.S. Department of Transportation, *Highway Statistics*, https://www.fhwa.dot.gov/policyinformation/statistics.cfm, Table MF-121T (2000-2006), and Table 8.4.6 (2007-2010).

1983 through 1999 (State Taxes): Federal Highway Administration, U.S. Department of Transportation, *Highway Statistics*, https://www.fhwa.dot.gov/policyinformation/statistics.cfm, Table MF-121T, supplemented with information from state revenue offices.

1991 through 2010 (Federal Taxes): EIA, *Petroleum Marketing Annual*, https://www.eia.gov/oil_gas/petroleum/data_publications/petroleum_marketing_annual/pma_historical.html, Table EN1.

1983 through 1990 (Federal Taxes): EIA, *Petroleum Marketing Annual*, 1990, Table EN1.

Consumption

1970 forward: EIA, State Energy Data System, transportation sector, motor gasoline consumption.

Conversion factors: all years

1970 forward: EIA, State Energy Data System consumption technical notes, Table B1.

Petroleum coke

The State Energy Data System (SEDS) estimates petroleum coke prices for the commercial, industrial, and electric power sectors. Petroleum refineries use about half of the petroleum coke consumed in the United States. For the industrial sector expenditure calculations, SEDS adjusts the amount of industrial petroleum coke consumption to remove refinery use because it is a process fuel. SEDS assumes the prices of the final petroleum products cover the costs of process fuels. (See the discussion in Section 7, "Consumption adjustments for calculating expenditures," at https://www.eia.gov/state/seds/seds-technical-notes-complete.php.)

Commercial sector

For 1992 forward, SEDS includes in the commercial sector small amounts of petroleum coke for combined-heat-and-power generation reported by the University of Northern Iowa. SEDS estimates prices, in dollars per million Btu, using data provided by the university, including taxes.

Data source

Price

1992 forward: University of Northern Iowa, https://fm.uni.edu/power-plant.

Industrial sector

Combined-heat-and-power (CHP) plants and manufacturing facilities use petroleum coke in the industrial sector. SEDS assumes industrial CHP petroleum coke prices to be equal to the electric power sector petroleum coke prices in each state. When a state has no electric power petroleum coke consumption, SEDS uses the Census division or neighboring state price, as shown in Table TN4.24.

Petroleum coke used in manufacturing is marketed to industrial consumers in two forms, calcined and uncalcined. Calcined coke is about four times as expensive as uncalcined. SEDS calculates a consumption-weighted U.S. average price using U.S. Department of Commerce exports data and assigns it to all states with industrial petroleum coke consumption. SEDS calculates the weighted average price by dividing the sum of the values of calcined and uncalcined petroleum coke exports by the sum of the two quantities exported. The exports, reported in metric tons, are converted to short tons by dividing by 0.9071847; from short tons to barrels by multiplying by 5; and from barrels to Btu by multiplying by 6.024 (before 2004) or 5.719 (for 2004 forward). The prices do not include taxes.

Table TN4.24. Industrial sector petroleum coke for CHP price assignments, 1989 forward

State	Years	State or Census division prices assigned
AR	2005	West South Central
	2006	West North Central
CA	1989	West North Central
	2016	West South Central
DE	1993–2003	PA
GA	1990	AL
	1991	East North Central
	1992	West North Central
	1993	KY
	1994–2002, 2011–2023	South Atlantic
	2003–2005	FL
	2006, 2007	South Atlantic (FERC)
	2008–2010	South Atlantic (EIA-923 Sch 2)
IA	2013–2023	West South Central
IL	1990	IN
	2000, 2001	East North Central
LA	2007	East North Central (FERC)
MI	1989, 1990	IN
	1991–1993	East North Central
MT	1990	West North Central
NJ	2011–2020	East North Central
OK	2010	West South Central (EIA-923 Sch 2)
OH	1989, 1990	IN
	1998, 1999	East North Central
PA	2010	East North Central (EIA-923 Sch 2)
	2011–2015, 2017–2019	East North Central
TX	1990–1992	West North Central
	2014–2023	West South Central
WI	1990	IN

Data sources

Price

2013 forward: Census Bureau, U.S. Department of Commerce, domestic

exports of Petroleum Coke, Not Calcined, commodity code 2713110000 and Petroleum Coke, Calcined, commodity code 2713120000, extracted from the U.S. International Trade Commission's DataWeb, https://dataweb.usitc.gov.

1989 through 2012: Census Bureau, U.S. Department of Commerce, December issues of EM-545, *Foreign and Domestic Exports*, for Petroleum Coke, Not Calcined, commodity code 2713110000 and Petroleum Coke, Calcined, commodity code 2713120000.

1986 through 1988: Census Bureau, U.S. Department of Commerce, December issue of EM-546 (1986), EM-622 (1987), EM-522 (1988), *U.S. Exports, Schedule B, Commodity by Country,* Petroleum Coke, Except Calcined, commodity code 5213150, and Petroleum Coke, Calcined, commodity code 5175120.

1978 through 1985: Census Bureau, U.S. Department of Commerce, FT-446, *U.S. Exports, Schedule B, Commodity by Country*, Petroleum Coke, Except Calcined, commodity code 5213150, and Petroleum Coke, Calcined, commodity code 5175120.

1970 through 1977: Census Bureau, U.S. Department of Commerce, December issues of FT-410, *U.S. Exports, Schedule B, Commodity by Country*, Petroleum Coke, Except Calcined, commodity code 3329420, and Petroleum Coke, Calcined, commodity code 3329410.

Electric power sector

The electric power prices for petroleum coke are the average delivered cost of petroleum coke receipts at electric plants. For 1983 through 2009, these data are from the U.S. Energy Information Administration (EIA) *Cost and Quality of Fuels for Electric Plants* (C&Q). For 2010 forward, the C&Q report is no longer available, but data on the cost of petroleum coke delivered to the electric utilities and/or the electric power sector are available from the Office of Energy Production, Conversion & Delivery (EPCD). The prices include all taxes, transportation, and other charges paid by the electric plants.

Btu prices: 2002 forward

SEDS uses electric power sector petroleum coke prices from C&Q or EPCD. For 2008 forward, the data are from Form EIA-923, "Power Plant Operations Report." Prior to 2008, the data are from the Federal Energy Regulatory Commission (FERC) Form 423, "Cost and Quality of Fuels for Electric Plants," (a survey of electric utilities) and Form EIA-423, "Cost and Quality of Fuels for Electric Plants," (a survey of nonutility power producers). SEDS uses the combined information from Form EIA-423 and FERC Form 423 to calculate average delivered costs of petroleum coke used by the entire electric power industry.

Some states have petroleum coke consumption in the electric power sector in SEDS but no deliveries or price data from the C&Q or EPCD. For those states, SEDS uses the Census division neighboring state, or neighboring Census division price, as shown in Tables TN4.25 and TN4.26. For 2003 through 2010, SEDS uses plant-level data from Form EIA-923 Schedule 2 or FERC Form 423 to calculate prices for a state. If there are no plant data for the state, SEDS uses an average of the plant-level prices for the Census division. The state-level price assignments are shown in Table TN4.25, and the Census division-level price assignments are shown in Table TN4.26.

Btu prices: 1972 through 2001

Estimates of the average delivered cost of petroleum coke are based on delivery and cost data from FERC Form 423 data files. From 1972 through 1982, steam plants with a maximum capacity of 25 megawatts were included in the survey. For 1983 and subsequent years, the reporting threshold was raised to 50 megawatts capacity. The FERC Form 423 data files show quantity in short tons, estimated Btu per pound, and price in cents per million Btu. The data are presented by plant, by state, and by month. The Btu price by state is calculated as the annual sum of the unit prices, weighted by the total Btu in each reported delivery, divided by the annual sum of the Btu delivered to all electric plants within the state.

In addition to the computer data files, the data also are published for some years in C&Q. From 1978 through 1982, C&Q was published monthly and annually; data for calculating petroleum coke prices are in only the monthly reports. For 1983 through 2001, C&Q was published annually and includes petroleum coke prices for individual states and for the nation (the 1994 edition is the last hard copy; all later years are available electronically only).

Some states have petroleum coke consumption in the electric power sector in SEDS but no deliveries or price data in the C&Q. Those states are assigned Census division average prices from the C&Q or, if the Census division average is not available, they are assigned prices from neighboring states or Census division, as shown in Table TN4.25 and Table TN4.26.

Btu prices: 1970, 1971

Table TN4.25. Petroleum coke electric power sector state price assignments, 1972 through 2010

State	Years	State prices assigned
DE	1981–1992	PA
IA	2008, 2009	EIA-923 Sch 2 data for IA
IN	2009	EIA-923 Sch 2 data for IN
KY	2003	FERC plant data for KY
KS	1975	MO
LA	1990	AL
	1996	FL
	1993–1995, 1997–2002	TX
	2004	FERC plant data for LA
	2008, 2009	EIA-923 Sch 2 data for LA
ME	1996–2000	PA
MI	2004, 2005, 2007	FERC plant data for MI
	2010	EIA-923 Sch 2 data for MI
MO	1983, 1985	MN
	2008	EIA-923 Sch 2 data for MO
MT	1999	UT
	2001	AZ
NC	1997, 1998	FL
NY	1974, 1996, 1998–2000	PA
TX	2004	FERC plant data for TX
WI	1985	MN
	2003–2007	FERC plant data for WI
	2008, 2009	EIA-923 Sch 2 data for WI

For the years 1970 and 1971, prices are estimated by using the gross domestic product implicit price deflator. The deflator for 1970 or 1971 is divided by the 1972 deflator and the quotient is multiplied by the 1972 price for each state to develop the price estimates for 1970 and 1971. The deflators are 35.1 in 1970, 37.1 in 1971, and 38.8 in 1972.

Although SEDS has a consumption estimate for New Jersey in 1971, there are no NJ price data for any year in the FERC Form 423 data files. Form 423 data for Pennsylvania in 1972 are used to estimate a PA price for 1971, which is assigned to NJ. The Form 423 PA prices for 1972 and 1971 are not used in SEDS because the consumption data source has no petroleum coke consumption in PA for those years.

U.S. Btu prices: all years

U.S. Btu prices are calculated as the average of the state Btu prices, weighted by consumption data from SEDS.

Table TN4.26. Petroleum coke electric power sector Census division price assignments, 1972 forward

State	Year	Census division prices assigned
CA	1990–2009	West North Central
	2012–2014	United States
IA	2012	West South Central
IL	2006, 2007	FERC plant data for East North Central
IN	2013	East North Central
KY	2005–2007	FERC plant data for East North Central
	2008	EIA-923 Sch 2 data for East North Central
LA	1992	West North Central
	2005	West South Central
	2006, 2007	West North Central
ME	1994, 1995	Middle Atlantic
MI	2006	FERC plant data for East North Central
	2008, 2009	EIA-923 Sch 2 data for East North Central
	2011, 2012	East North Central
MN	2009	EIA-923 Sch 2 data for West North Central
MO	2005	West North Central
MT	1995–1998, 2000,	West North Central
	2003–2007, 2011	
	2008–2010	EIA-923 Sch 2 data for West North Central
	2012–2023	West South Central
NY	2001, 2002, 2009,	East North Central
	2011	
	2003, 2005–2008	Middle Atlantic
	2010	EIA-923 Sch 2 data for East North Central
OH	2004–2007	FERC plant data for East North Central
	2008, 2010	EIA-923 Sch 2 data for East North Central
	2009, 2011–2023	East North Central
PA	2001–2003, 2009,	East North Central
	2010, 2016	
	2005, 2006, 2008	Middle Atlantic
SC	2008, 2011	EIA-923 Sch 2 data for South Atlantic
TX	2005, 2008–2013	West South Central
	2006, 2007	West North Central

Data sources

Prices

2011 forward: EIA Office of Energy Production, Conversion & Delivery, data on average delivered cost of petroleum coke by state, electric utilities and electric power sector.

2010: EIA Office of Energy Production, Conversion & Delivery, data on average delivered cost of petroleum coke by state, all sectors, and Form EIA-923, "Power Plant Operations Report," https://www.eia.gov/electricity/data/eia923/index.html, Schedule 2.

2008 through 2009: EIA, *Cost and Quality of Fuels for Electric Plants*, Table 9, and Form EIA-923, "Power Plant Operations Report," https://www.eia.gov/electricity/cost_quality/, Schedule 2.

2002 through 2007: EIA, *Cost and Quality of Fuels for Electric Plants*, Table 9, and FERC Form 423, "Cost and Quality of Fuels for Electric Plants," https://www.eia.gov/electricity/cost_quality/.

1972 through 2001: EIA, computer data files from FERC Form 423, "Cost and Quality of Fuels for Electric Plants," https://www.eia.gov/electricity/cost_quality/, as published compiled by plant in the following reports:

- 1983 through 2001: EIA, *Cost and Quality of Fuels for Electric Plants*, Table 20 (1983, 1984), Table 12 (1985-1989), Table 40 (1990, 1991), and Table 28 (1992-2001).
- 1978 through 1982: EIA, *Cost and Quality of Fuels for Electric Plants,* table titled "Wood Chips, Refuse, and Petroleum Coke Used as Fuel by Steam Electric Units."

1970 through 1971: EIA, *Annual Energy Review 1992*, Appendix C. Gross Domestic Product and Implicit Price Deflator.

Consumption

1970 forward: EIA, State Energy Data System, electric power sector petroleum coke consumption.

Conversion factors: all years

No conversion factors are needed. The data sources provide Btu prices.

Residual fuel oil

The State Energy Data System (SEDS) estimates residual fuel oil prices for the commercial, electric power, industrial, and transportation sectors. For 2022 forward, EIA suspended its survey EIA-782 and no physical unit prices are available, so SEDS estimates prices using regression equations. SEDS uses its residual fuel oil consumption estimates to calculate expenditure estimates for each sector. For the industrial sector expenditure calculations, SEDS adjusts the amount of industrial residual fuel oil consumption to remove intermediate refinery process fuels and avoid double counting. (See Section 7, "Consumption adjustments for calculating expenditures," at https://www.eia.gov/state/seds/seds-technical-notes-complete.php.)

Commercial sector

SEDS estimates commercial sector residual fuel oil prices using different data sources and estimation methods, depending on the year. For 2022 forward, EIA suspended its survey EIA-782 and no physical unit prices are available, so SEDS estimates using regression equations. For 2011 through 2021, SEDS estimates prices using regional-level regression equations (see below). For 1984 through 2009, SEDS develops state-level commercial sector residual fuel oil prices from refiner/reseller/retailer prices of residual fuel oil to end users published in EIA's *Petroleum Marketing Annual* (PMA). For 2010 through 2021, PMA is no longer available, but the same set of physical unit prices, in dollars per gallon (excluding taxes), are available on the EIA website. For 1970 through 1983, SEDS estimates commercial sector prices for all states using U.S. residual fuel oil prices and state-level electric power sector residual fuel oil prices. For all years, the final price estimates include state taxes.

Physical unit prices: 2022 forward

For 2022 forward, EIA suspended its survey EIA-782 that provided the data and no physical unit prices are available, so SEDS estimates prices using regression equations. The regression equation for each state uses the historical SEDS commercial price for 2016 through 2021 as the Y dependent variable and two X independent variables—the annual average EIA-923 U.S. cost of residual fuel receipts at electric generating plants and the annual Refinitiv U.S. Gulf Coast Ultra-Low Sulfur No. 2 diesel spot price. After the regression output, SEDS adds state general sales taxes.

Table TN4.27. Residual fuel oil commercial sector PAD district and subdistrict price assignments, 1984 through 2021

State	Years	Assignments	State	Years	Assignments
AL	1995, 2006, 2018, 2020, 2021	District 3	ND	1988–1992, 1995–2002, 2005–2009, 2011–2015	District 2
AR	1996, 2004	District 3	NE	1995, 1998–2000, 2004–2006, 2008–2010, 2012, 2014, 2017–2021	District 2
AZ	1984, 1985, 1988, 1991, 1996	District 5	NH	2014–2021	Subdistrict 1A
CO	1986, 1992, 1993, 1998, 1999	District 4	NJ	2018	Subdistrict 1B
CT	2011–2020	Subdistrict 1A	NM	1984, 1985, 1996	District 3
DC	1998–2001	Subdistrict 1B	NV	1986, 1988, 1991, 1992, 1997–2000, 2007, 2011	District 5
DE	2014–2017, 2021	Subdistrict 1B	NY	2019, 2020	Subdistrict 1B
FL	2009, 2011–2015	Subdistrict 1C	OH	2011, 2012	District 2
GA	2001, 2003, 2014, 2016	Subdistrict 1C	OK	1992, 1995, 2002, 2004, 2020	District 2
HI	2002, 2004–2007	District 5	OR	1989	District 5
IA	1996, 1998, 2005, 2006, 2010, 2012, 2016	District 2	RI	2011–2017, 2019, 2020	Subdistrict 1A
ID	1985, 1986, 1989–1992, 1994–1998, 2010–2012	District 4	SC	1993–1995, 1998–2002, 2005–2008, 2014–2021	Subdistrict 1C
IL	2003, 2008, 2010, 2011, 2014	District 2	SD	1990–1995, 1997–2002, 2004–2013, 2018–2021	District 2
IN	2009, 2014, 2015, 2018–2021	District 2	TN	1995, 2007–2009, 2013	District 2
KS	2009–2011	District 2	TX	2020	District 3
KY	1999–2001, 2005	District 2	UT	1989–1992, 1998–2001, 2004–2006, 2010, 2014	District 4
MA	2014–2021	Subdistrict 1A	VA	2014–2016, 2018, 2020, 2021	Subdistrict 1C
MD	2014–2018, 2021	Subdistrict 1B	VT	2004, 2010, 2014–2021	Subdistrict 1A
ME	2007, 2011–2021	Subdistrict 1A	WA	2002	District 5
MI	2008–2018, 2021	District 2	WI	1994, 1995, 1998, 2006–2009	District 2
MN	1995–1997, 2002–2009, 2011–2019, 2021	District 2	WV	1984, 2013	Subdistrict 1C
MO	1995, 2007, 2009, 2010, 2012	District 2	WY	1989–1991, 1994–1998, 2012	District 4
MS	1988, 1991, 1992, 2001, 2003, 2008	District 3			
MT	1992, 1994, 1995, 1997–2000, 2003, 2009, 2010–2014	District 4			
NC	2007, 2014–2016, 2018, 2021	Subdistrict 1C			

Physical unit prices: 2011 through 2021

EIA discontinued its survey that provided reseller and retailer prices for sales of residual fuel oil to end users, Form EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report," in 2011. As a result, data for residual fuel oil prices, which are based on survey forms EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, are no longer available. To estimate residual fuel oil prices, SEDS develops regression equations for each Petroleum Administration for Defense (PAD) district and subdistrict. SEDS uses historical refiner retail sales prices for residual fuel oil from EIA-782A as the independent variable and the historical commercial residual fuel oil prices as the dependent variable. When the independent variables are missing, SEDS estimates them by applying the U.S. growth rate to the previous year prices. SEDS uses these regression equations to estimate the current prices for the PAD districts and subdistricts and for states that have historical refiner/reseller/retailer prices and sizable sales volume—CA, DE, LA, MA, MD, NC, NH, NJ, NY, OR, PA, SC, TX, VA, VT, and WA. SEDS assigns the corresponding PAD district or subdistrict prices to all other states, except Alaska, as shown in Table TN4.27. For Alaska, SEDS estimates commercial residual fuel oil prices for 1984 forward using Washington commercial residual fuel oil prices and the ratio of the AK-to-WA prices for each year where there is consumption. SEDS adds state general sales taxes to the state estimated prices.

Physical unit prices: 1984 through 2010

Commercial sector residual fuel oil physical unit prices are based on refiner/reseller/retailer prices to end users. States that do not have refiner/reseller/retailer prices are assigned their PAD district or subdistrict price (Table TN4.27), with the exception of AK. The AK commercial residual fuel oil prices, for years where there is consumption, are based on the WA commercial residual fuel oil price and the ratio of the AK-to-WA commercial distillate fuel oil prices for each year. Tax data are added to develop final prices.

In 2010, refiner/reseller/retailer price for PAD District 4 is not available. It is estimated by calculating the change in price for District 3 from 2009 to 2010 and applying it to the 2009 District 4 price.

Physical unit prices: 1976 through 1983

The commercial sector residual fuel oil physical unit prices for 1976 through 1983 are estimated from the electric power sector residual fuel oil prices and the U.S. average retail residual fuel oil prices (with taxes added) for each year. The resulting price estimates implicitly include taxes that reflect individual state differences.

1. The first step in the estimation of the commercial residual fuel oil physical unit state prices is to convert the state-level tax rates reported in the U.S. Census Bureau publications into the volume-weighted average U.S. sales tax rate by using commercial residual consumption data from SEDS.
2. A preliminary U.S. residual fuel oil price, including taxes, is computed by using the average U.S. tax rate estimated above and the annual average U.S. residual fuel oil price to end users (average retail price excluding taxes) from the *Monthly Energy Review* (MER).
3. Commercial sector physical unit residual fuel oil prices for states are computed by using the electric power sector residual fuel oil prices. To do this calculation, the ratio of the state-level and U.S. prices in the commercial sector is assumed to be the same as the ratio of state and U.S. prices in the electric power sector. Some states are missing electric power sector prices for 1976 through 1983; these are estimated by using adjacent states' average prices (Table TN4.28).

Physical unit prices: 1970 through 1975

Because no national or state-level retail residual prices are available from published data sources, commercial sector residual prices for 1970 through 1975 are estimated. The estimation method is based on the assumption that the average ratio of state-to-U.S. prices is the same in the commercial and electric power sectors. The average ratio for 1976 through 1979 of the MER U.S. tax-adjusted prices to the electric power sector U.S. prices is calculated and used as an adjustment factor with state-level electric power sector prices for 1970 through 1975. The resulting price estimates implicitly include taxes that reflect individual state differences.

1. The average ratio of the MER tax-adjusted U.S. prices and the electric power sector U.S. prices is calculated for 1976 through 1979.
2. State-level commercial sector residual fuel oil prices are calculated by using the electric power sector physical unit price series for 1970 through 1975 and the average ratio computed above. Price assignments for states missing electric power sector data are shown in Table TN4.28.

Table TN4.28. Residual fuel oil commercial sector price assignments, 1970 through 1983

State	Years	State prices used in the estimation
AL	1970–1974, 1980, 1982, 1983	FL, GA, MS
ID	1980, 1981, 1983	CA, CO
	1982	CA
IN	1980–1983	IL, MI, OH
KY	1980–1983	IL, MO, OH, VA
MT	1980, 1983	CO, MN
	1982	MN
NC	1981, 1983	GA, VA
ND	1980, 1983	MN, SD
	1981, 1982	MN
OR	1975–1983	CA
TN	1970–1978, 1980–1983	AR, GA, MO, MS, VA
VT	1980–1983	ME, NH, NY
WI	1982, 1983	IL, MI, MN
WV	1980–1983	MD, OH, PA, VA
WY	1980	CO, NE, SD, UT
	1981, 1983	CO
	1982	MN

Btu prices: all years

SEDS converts the physical unit prices to Btu prices using the residual fuel oil conversion factor. SEDS calculates U.S. Btu prices as the average of the state Btu prices, weighted by SEDS consumption data.

Data sources

Prices

2022 forward: Regression equations using historical SEDS commercial price estimates; EIA-923 U.S. cost of residual fuel receipts at electric generating plants, as published in EIA's *Monthly Energy Review* Table 9.9 https://www.eia.gov/totalenergy/data/browser/index.php?tbl=T09.09#/?f

=A&start=1973&end=2022&charted=2; annual Refinitiv, an LSEG business, U.S. Gulf Coast Ultra-Low Sulfur No. 2 diesel spot price, as republished on EIA's website https://www.eia.gov/dnav/pet/hist/LeafHandler.ashx?n=PET&s=EER_EPD2DXL0_PF4_RGC_DPG&f=A.

2011 through 2021: Unpublished price data from EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

2010: EIA, Petroleum & Other Liquids data website, Residual Fuel Oil Prices by Sales Type, Sales to End Users, https://www.eia.gov/dnav/pet/pet_pri_resid_a_eppr_pta_dpgal_a.htm.

1984 through 2009: EIA, *Petroleum Marketing Annual*, https://www.eia.gov/oil_gas/petroleum/data_publications/petroleum_marketing_annual/pma_historical.html, Table A3, column titled "Residual Fuel Oil-Sales to End Users."

1984 through 1988: Commercial sector distillate fuel oil price estimates from SEDS (AK and WA only).

1978 through 1983: EIA, *Monthly Energy Review, December 1988*, table titled "Refiner Sales Prices of Residual Fuel Oil," column titled "Average Sales to End Users."

1976, 1977: EIA, *Monthly Energy Review, December 1983*, table titled "Average No. 6 Residual Fuel Oil Prices," column titled "Average, Retail."

1970 through 1983: Electric power sector residual fuel oil price estimates (in physical units) from SEDS.

Taxes

For 1992 forward, SEDS calculates an annual average general sales tax for each State as a simple average of the 12 monthly values. This method takes into account tax changes during the year. Before 1992, SEDS uses the September 1st state general sales tax for each year.

For 2009, the Federation of Tax Administrators did not publish state general sales tax data, but did publish state general sales tax data for 2010.

Therefore, SEDS estimated the 2009 tax rates by comparing the Federation of Tax Administrators' 2008 and 2010 rates for each state. If no change occurred between 2008 and 2010, SEDS assumes the rate remained constant in 2009. If a rate did change between those years, SEDS consulted the State Department of Revenue to determine the effective date of the rate change.

1996 forward: Federation of Tax Administrators, https://www.taxadmin.org/current-tax-rates.

1995: The Council of State Governments, *The Book of the States 1994-95* and *1996-97,* Table 6.21.

1994: U.S. Advisory Committee on Intergovernmental Relations, *Significant Features of Fiscal Federalism,* Tables 14 and 26.

1993: Census Bureau, U.S. Department of Commerce, *State Tax Review,* Volume 54, No. 31, map titled "State Gasoline, Sales, and Cigarette Tax Rates as of July 1, 1993," sales tax rates.

1987 through 1992: Census Bureau, U.S. Department of Commerce, *State Government Tax Collections,* Table 8, column titled "Percentage rate, September 1."

1976 through 1986: Census Bureau, U.S. Department of Commerce, *Statistical Abstract of the United States,* table titled "State Government Tax Collections and Excise Taxes," column titled "Excise Taxes, General sales and gross receipts."

Consumption

1970 forward: EIA, State Energy Data System (SEDS), commercial sector residual fuel oil consumption.

Conversion factor: all years

6.287 million Btu per barrel.

Electric power sector

SEDS estimates the electric power prices for residual fuel oil (heavy oil) as the average delivered cost of No. 6 fuel oil receipts at electric plants. For 1973 forward, the data source provides Btu prices. For 1970 through 1972, SEDS estimates the prices using simple regression analysis. For all years, the prices include all taxes, transportation, and other charges paid by the power plants.

Btu prices: 2011 forward

The PMA no longer publishes data on the cost of residual fuel oil delivered to the electric utilities, but the data are available from the Office of Energy Production, Conversion & Delivery (EPCD). SEDS estimates missing state prices by applying the growth rate of the U.S. price to the previous year's state prices (Table TN4.29).

Table TN4.29. Residual fuel oil electric power U.S. growth assignments, 2011 forward

State	Years	State	Years
AK	2013–2015	MI	2011–2021
AR	2011–2015, 2020	MS	2011, 2012, 2014
CA	2011, 2015	NE	2011, 2012
CT	2011–2023	NH	2011, 2012, 2016, 2017,
DE	2011–2023		2019–2023
FL	2018–2020	NJ	2011–2016
GA	2011, 2015	NY	2020
LA	2012–2016	PA	2011–2014, 2018–2023
MA	2011, 2013–2023	TX	2011, 2012
MD	2011–2023	VA	2021, 2022
ME	2011–2023	VT	2011, 2012

Btu prices: 1973 through 2010

Electric power sector residual fuel oil prices for 1973 through 2009 are taken from the U.S. Energy Information Administration (EIA) *Cost and Quality of Fuels for Electric Plants* (C&Q). For 2010, C&Q is no longer available, but data on the cost of residual fuel oil delivered to the electric utilities are available from EPCD.

For 1973 through 1979, Btu prices are calculated as the weighted average of contract and spot prices for No. 6 fuel oil. For 1980 through 1982, C&Q prices cover all reporting plants of 25 megawatts capacity or greater. For 1983 forward, C&Q reports prices for steam electric plants of 50 megawatts capacity or greater.

Not all state-level prices are available from the source. The corresponding Census division price, either available from source or estimated as described in Table TN4.30, is assigned as the state prices. Table TN4.31 lists the states and years for which Census division prices are assigned as the state prices.

Alaska: 1973 through 2007

C&Q does not have prices for AK from 1973 through 2007. For 1973 through 1993, prices are estimated by calculating the ratio of the AK price to the U.S. price from the *Statistical Yearbook of the Electric Utility Industry* and multiplying the ratio by the C&Q U.S. price for each year. AK prices for 1973, 1975, and 1978 are not published in the *Statistical Yearbook* and are estimated by calculating an average of the ratios of the AK to U.S. prices in adjacent years. The 1973 estimated price is based on the average ratio for 1972 and 1974; the 1975 price is based on the average ratio for 1974 and 1976; and the 1978 price is based on the average ratio for 1977 and 1979. The average ratio is then applied to the U.S. C&Q price for the missing year. Beginning with 1994 data, the *Statistical Yearbook* table was discontinued. Alaska prices for 1994 through 2007 are obtained from direct contact with the only Alaskan power plant reporting use of residual fuel oil.

Table TN4.30. Residual fuel oil electric power Census division price estimation methods, 1970 through 2010

Census division/ subdivision	Years	Estimation method
West North Central	2007, 2010	Growth rate of U.S. price
Mountain	1996–2002	Average difference between Mountain and Pacific Noncontinguous prices for 1991-1995 applied to 1996-2002 Pacific Noncontiguous prices
	2007–2010	Growth rate of U.S. price
Pacific Contiguous	1995, 1996	1994 California price
	1997–2000	Average prices for California electric power plants reported on FERC Form 1
	2004	Growth rate of Mountain price
	2007, 2010	Growth rate of U.S. price
Pacific	2002, 2003	Growth rate of Pacific Continguous price
Noncontiguous	2004–2006	Growth rate of Mountain price
	2007	Growth rate of U.S. price

Hawaii: 1973 through 1982, and 2007

C&Q does not have prices for HI from 1973 through 1982. Prices are estimated by calculating the ratio of the HI price to the U.S. price from the *Statistical Yearbook of the Electric Utility Industry* and multiplying the ratio by the C&Q U.S. price for each year. In 2007, plant data from FERC Form 1 are used to calculate the state price.

Btu prices: 1970 through 1972

State-level Btu prices for 1970 through 1972 are estimated by using regression techniques and price data from the *Statistical Yearbook*. The regression equations use *Statistical Yearbook* state-level prices for 1973 through 1980 as the independent variable and the state-level prices calculated above (including the estimations for AK and HI) as the dependent variable. Pacific regional price averages are assigned for the missing WA prices in 1970 and 1971. The average of 1970 and 1972 AK *Statistical Yearbook* prices is substituted for the missing 1971 AK price.

U.S. Btu prices: all years

Table TN4.31. Residual fuel oil electric power Census division price assignments, 1970 through 2010

State	Years of assigned prices	Census division
AL	1975–1979	East South Central
AR	1987, 1992, 1993, 1996–2003, 2005, 2007	West South Central
AZ	1984, 1985, 1991–1997, 1999–2001	Mountain
CA	2007, 2010	Pacific Contiguous
CO	1982, 1987, 1989–1992, 1994, 1995–2001, 2009	Mountain
CT	2001–2010	New England
DC	1982–2001	South Atlantic
DE	2007–2010	South Atlantic
GA	1991, 1998–2002, 2007, 2008	South Atlantic
HI	2002–2006	Pacific Non-Contiguous
IA	1970–1985	West North Central
IL	2000, 2003–2010	East North Central
IN	1970–1979, 1995, 2001, 2002	East North Central
KS	1980, 1981, 1985–1987, 1989–1992, 1995	West North Central
KY	1970–1979	East South Central
MD	2001–2007	South Atlantic
ME	2001–2010	New England
MN	1984, 1985, 1987–1990, 1992, 1993, 1996–2002, 2007	West North Central
MO	1999, 2001, 2002, 2004	West North Central
MT	1970–1979	Mountain
NC	1976, 1977, 1979, 1980, 1982, 1984	South Atlantic
ND	1970–1979, 2002	West North Central
NE	1981–1983, 1990, 1991, 1994, 1998–2007, 2010	West North Central
NM	1979–1982, 1989–1997, 2001, 2004	Mountain
NV	1983, 1985, 1996–2002, 2007	Mountain
OH	1992–1994, 2001, 2002, 2004	East North Central
OK	1977, 1978, 1980, 1982–1987, 1989, 1991–1997, 1999, 2001, 2002, 2006, 2007	West South Central
OR	1970, 1973, 1974	Pacific
PA	2002–2010	Middle Atlantic
RI	1995	New England
SC	1983, 1985–2002, 2007–2010	South Atlantic
SD	1981–1988	West North Central
TN	1979	East South Central
TX	1992–1997, 1999–2002, 2007, 2008	West South Central
UT	1982, 1983, 1986	Mountain
VT	1970–1979, 2008, 2009	New England
WA	1970, 1971, 1975–1978, 1981–1983, 1986–1988	Pacific
WA	1992, 1993	Pacific Contiguous
WI	2001	East North Central
WV	1970–1977, 1979	South Atlantic
WY	1970–1979	Mountain

SEDS calculates U.S. Btu prices as the average of the state Btu prices, weighted by SEDS consumption data.

Data sources

Prices

2010 forward: EIA-923, Office of Energy Production, Conversion & Delivery, data on average delivered cost of residual fuel oil to regulated electric power plants.

1973 through 2009: EIA, *Cost and Quality of Fuels for Electric Plants,* Table 6 (1973-1979), Table 45 (1980-1982), Table 51 (1983, 1984), Table 41 (1985-1989), Table 14 (1990, 1991), and Table 8 (1992-2001), Table 7.D (2002, 2003), Table 7.C (2004-2008), and Table 11 (2009). Data from 1990 forward are also available at https://www.eia.gov/electricity/cost_quality/.

1994 through 2007: Alaska prices are obtained from the Golden Valley Electric Association.

1970 through 1993: Edison Electric Institute, *Statistical Yearbook of the Electric Utility Industry*, Table 43 (1970-1979), Table 26 (1980-1983), Table 28 (1984-1986), and Table 29 (1987-1993).

Consumption

1970 forward: EIA, State Energy Data System, electric power sector residual fuel oil consumption.

Conversion factors: all years

Because the data sources directly provide Btu prices, SEDS only uses the residual fuel oil conversion factor of 6.287 million Btu per barrel for Alaska prices for 1994 forward.

Industrial sector

SEDS estimates industrial sector residual fuel oil prices using different data sources and estimation methods, depending on the year. For 2022 forward, EIA suspended its survey EIA-782 and no physical unit prices are available, so SEDS estimates using regression equations. For 2011 through 2021, SEDS estimates prices using regional-level regression equations (see below). For 1984 through 2009, SEDS estimates prices using refiner/reseller/retailer prices of residual fuel oil in EIA's *Petroleum Marketing Annual* (PMA). For 2010 through 2021, PMA is no longer available, but the same set of physical unit prices, in dollars per gallon (excluding taxes), are available on the EIA website. For 1970 through 1983, SEDS estimates residual fuel oil prices using average costs of residual fuel oil to manufacturing firms published in two U.S. Census

Table TN4.32. Residual fuel oil industrial sector PAD district and subdistrict price assignments, 1984 through 2021

State	Years	Assignments	State	Years	Assignments
AK	2021	District 5	MS	1988, 1991, 1992, 1995, 1998,	District 3
AL	1995, 1997, 1998, 2005–2021	District 3		2001–2004, 2006–2021	
AR	1985, 1996, 1997–2016	District 3	MT	1992, 1994, 1995, 1997–1999, 2001–2006, 2009	District 4
AZ	1984–1993, 1995–2002, 2005–2007, 2011	District 5	NC	2007, 2014–2021	Subdistrict 1C
CA	2019–2021	District 5	ND	1988–1992, 1995–2002, 2005–2009, 2011, 2012,	District 2
CO	1986, 1988, 1990–1995, 1997–1999,	District 4		2014, 2015	
	2001, 2006, 2008		NE	1995, 1996, 1998–2000, 2002, 2005–2009, 2014	District 2
CT	2011–2018	Subdistrict 1A	NH	2014–2021	Subdistrict 1A
DC	1994, 1995, 2000	Subdistrict 1B	NM	1984–1986, 1990–2010	District 3
DE	2015–2017, 2021	Subdistrict 1B	NV	1986, 1988, 1991–1999, 2002–2006	District 5
FL	2009, 2011–2021	Subdistrict 1C	NY	2019, 2020	Subdistrict 1B
GA	2001–2004, 2011–2021	Subdistrict 1C	OH	2011–2021	District 2
HI	2002–2008, 2011–2013, 2015–2019, 2021	District 5	OK	1992–2021	District 2
IA	1995–1999, 2005–2008, 2010–2014,	District 2	OR	1989, 2016–2018, 2021	District 5
	2017–2019, 2021		PA	2019, 2020	Subdistrict 1B
ID	1985, 1986, 1989–1992, 1994, 1995–2003,	District 4	RI	2011–2020	Subdistrict 1A
	2005–2007, 2009–2012, 2016, 2021		SC	1993–1995, 1998–2002, 2005–2008, 2014–2021	Subdistrict 1C
IL	2003, 2004, 2007–2021	District 2	SD	1990–2009, 2011, 2013–2017, 2021	District 2
IN	2009–2021	District 2	TN	1995, 2000, 2002, 2007–2009, 2011–2021	District 2
KS	2007–2021	District 2	TX	2020, 2021	District 3
KY	1998–2010, 2013–2018, 2021	District 2	UT	1989–1992, 1998–2000, 2002, 2005, 2006,	District 4
LA	2019–2021	District 3		2008, 2010, 2014, 2015, 2018, 2021	
MA	2014–2021	Subdistrict 1A	VA	2014–2021	Subdistrict 1C
MD	2014–2019, 2021	Subdistrict 1B	VT	2010, 2014–2021	Subdistrict 1A
ME	2007, 2011–2021	Subdistrict 1A	WA	2002, 2021	District 5
MI	2007–2021	District 2	WI	1994, 1995, 1998, 2006–2021	District 2
MN	1995–1997, 2002–2009, 2011–2021	District 2	WV	1984, 1998, 2002–2016, 2020, 2021	Subdistrict 1C
MO	1995, 2007, 2010–2018, 2020, 2021	District 2	WY	1989–1999, 2001–2010	District 4

Bureau reports and *Platt's Oil Price Handbook and Oilmanac*. The sources provide price data for the years 1971 and 1974 through 1981; SEDS estimates prices for 1970, 1972, 1973, 1982, and 1983. Prices for all years include taxes.

Physical unit prices: 2022 forward

For 2022 forward, EIA suspended its survey EIA-782 that provided the data and no physical unit prices are available, so SEDS estimates prices using regression equations. The regression equation for each state uses the historical SEDS industrial price for 2016 through 2021 as the Y dependent variable and two X independent variables—the annual average EIA-923 U.S. cost of residual fuel receipts at electric generating plants and the annual Refinitiv U.S. Gulf Coast Ultra-Low Sulfur No. 2 diesel spot price. After the regression output, SEDS adds state general sales taxes.

Physical unit prices: 2011 through 2021

EIA discontinued its survey that provided reseller and retailer prices for sales of residual fuel oil to end users, Form EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report," in 2011. As a result, data for residual fuel oil prices, which are based on survey forms EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, are no longer available. To estimate residual fuel oil prices, SEDS develops regression equations for each Petroleum Administration for Defense (PAD) district and subdistrict. SEDS uses historical refiner retail sales prices for residual fuel oil from EIA-782A as the independent variable and the historical industrial prices as the dependent variable. When the independent variables are missing, SEDS estimates them by applying the U.S. growth rate to the previous year prices. SEDS uses these regression equations to estimate the prices for the PAD districts and subdistricts and for states that have historical refiner/reseller/retailer prices and sizable sales volume—CA, DE, LA, MA, MD, NC, NH, NJ, NY, OR, PA, SC, TX, VA, VT, and WA. SEDS assigns the corresponding PAD district or subdistrict prices to all other states,

except Alaska, as shown in Table TN4.32. For Alaska, SEDS estimates industrial residual fuel oil prices for 1984 forward using Washington industrial residual fuel oil prices and the ratio of the AK-to-WA prices for each year where there is consumption. SEDS adds state general sales taxes to the state estimated prices.

Physical unit prices: 1984 through 2010

Residual fuel oil industrial sector physical unit prices are calculated by using refiner/reseller/retailer prices to end users. The states that do not have refiner/reseller/retailer prices are assigned their PAD district or subdistrict price as shown in Table TN4.32, with the exception of Alaska. Alaska industrial residual fuel oil prices for 1984 forward are based on the Washington industrial residual fuel oil prices and the ratio of the AK-to-WA industrial distillate fuel oil prices for each year where there is consumption. State general sales taxes are added.

In 2010, refiner/reseller/retailer price for PAD District 4 is not available. It is estimated by calculating the change in price for District 3 from 2009 to 2010 and applying it to the 2009 District 4 price.

Physical unit prices: 1982, 1983

After 1981, the U.S. Department of Commerce's *Annual Survey of Manufactures* and the *Census of Manufactures* (ASM/CM) ceased publication of fuel-specific state-level residual fuel oil data from which prices can be calculated. Prices for 1982 and 1983 are estimated from the average relationship between the ASM/CM-based prices generated for 1978 through 1981 and the assigned *Platt's* No. 6 fuel oil prices for 1978 through 1981 (Table TN4.33). These average ratios are calculated at the state level for all states except AK, which shows no industrial sector residual fuel oil use reported in SEDS for 1982 and 1983. Physical unit residual fuel oil industrial prices for 1982 and 1983 are calculated by using the assigned *Platt's* prices for 1982 and 1983 (Table TN4.33) and the state-level average ratios. The resulting estimates implicitly include taxes that reflect individual state differences.

Physical unit prices: 1971, 1974 through 1981

For the years 1971 and 1974 through 1981, industrial sector residual prices are calculated directly from cost and quantity data reported by the ASM/CM. For all states with available cost and quantity data, prices are equal to the average cost of residual fuel oil to manufacturers. Taxes are included in the published cost data. Missing data for these years are assigned from the average prices of adjacent states, as shown in Table TN4.34.

Physical unit prices: 1970, 1972, 1973

Because ASM/CM data are not available for 1970, 1972, or 1973, prices for these years must be estimated. Physical unit prices are based on the ratio of the 1971 CM prices to the 1971 assigned No. 6 fuel oil prices from *Platt's Oil Price Handbook and Oilmanac* (Table TN4.33). The estimated 1971 CM prices for NM and WY are used in the calculations. The resulting ratios for each state are used with the *Platt's* assigned prices for 1970, 1972, and 1973 to estimate prices. The final estimates implicitly include state-specific taxes.

Btu prices: all years

SEDS converts the physical unit prices to Btu prices using the residual fuel oil conversion factor of 6.287 million Btu per barrel. SEDS calculates the U.S. Btu prices as the average of the state Btu prices, weighted by SEDS consumption data, that is adjusted for process fuel consumption.

Data sources

Prices

2022 forward: Regression equations using historical SEDS industrial price estimates; EIA-923 U.S. cost of residual fuel receipts at electric generating plants, as published in EIA's *Monthly Energy Review* Table 9.9 https://www.eia.gov/totalenergy/data/browser/index.php?tbl=T09.09#/?f=A&start=1973&end=2022&charted=2; annual Refinitiv, an LSEG business, U.S. Gulf Coast Ultra-Low Sulfur No. 2 diesel spot price, as republished on EIA's website https://www.eia.gov/dnav/pet/hist/LeafHandler.ashx?n=PET&s=EER_EPD2DXL0_PF4_RGC_DPG&f=A.

2011 through 2021: Unpublished price data from EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

2010: EIA, Petroleum & Other Liquids data website, Residual Fuel Oil Prices by Sales Type, Sales to End Users, https://www.eia.gov/dnav/pet/pet_pri_resid_a_eppr_pta_dpgal_a.htm.

1984 forward: EIA, *Petroleum Marketing Annual,* https://www.eia.gov/oil_gas/petroleum/data_publications/petroleum_marketing_annual/pma_historical.html, Table A3, column titled "Residual Fuel Oil-Sales to End Users."

1984 forward: Industrial sector distillate fuel oil price estimates from *SEDS* (AK and WA only).

Table TN4.33. No. 6 Fuel oil price assignments from Platt's, 1970 through 1983

State	Years	City or state prices assigned	State	Years	City or state prices assigned
AK	1970–1972, 1975, 1977–1980	Los Angeles, CA	MT	1970–1983	Minneapolis/St. Paul, MN
	1973, 1974, 1976,	Los Angeles/San Francisco, CA	NC	1970–1983	Wilmington
	1981–1983	Los Angeles, CA; San Francisco, CA	ND[1]	1970–1983	Minneapolis/St. Paul, MN
AL	1970–1983	Savannah, GA	NE	1970–1972, 1975, 1977–1980	Los Angeles, CA
AR	1970–1983	Arkansas		1973, 1974, 1976	Los Angeles/San Francisco, CA
AZ	1970–1972, 1975, 1977–1980	Los Angeles, CA		1981–1983	Los Angeles, CA; San Francisco, CA
	1973, 1974, 1976	Los Angeles/San Francisco, CA	NH	1970–1983	Portland, ME
	1981–1983	Los Angeles, CA; San Francisco, CA	NJ	1970–1972	New Jersey
CA	1970–1972, 1975, 1977–1980	Los Angeles		1974, 1975	New York, NY; Albany, NY; Buffalo, NY
	1973, 1974, 1976	Los Angeles/San Francisco		1976–1983	New York, NY; Albany, NY
	1981–1983	Los Angeles; San Francisco	NM	1970–1972, 1975, 1977–1980	Los Angeles, CA
CO[1]	1970–1983	Minneapolis/St. Paul, MN		1973, 1974, 1976	Los Angeles/San Francisco, CA
CT	1970–1983	New Haven		1981–1983	Los Angeles, CA; San Francisco, CA
DC	1970–1983	Baltimore, MD	NV	1970–1972, 1975, 1977–1980	Los Angeles, CA
DE	1970–1983	Baltimore, MD		1973, 1974, 1976	Los Angeles/San Francisco, CA
FL	1970–1972	Jacksonville; Miami; Tampa;		1981–1983	Los Angeles, CA; San Francisco, CA
		Port Everglades	NY	1970–1975	New York; Albany; Buffalo
	1973–1975	Jacksonville; Miami; Tampa		1976–1983	New York; Albany
	1976–1983	Jacksonville/Miami	OH[1]	1976–1983 1970	Toledo
GA	1970–1983	Savannah		1971–1983	Detroit, MI
HI	1970–1972, 1975, 1977–1980	Los Angeles, CA	OK[2]	1970–1977, 1979	Group 3 (Oklahoma)
	1973, 1974, 1976	Los Angeles/San Francisco, CA		1978, 1980–1983	New Orleans, LA
	1981–1983	Los Angeles, CA; San Francisco, CA	OR	1970–1972, 1975, 1977–1980	Los Angeles, CA
IA[1]	1970–1983	Chicago, IL		1973, 1974, 1976	Los Angeles/San Francisco, CA
ID	1970–1972, 1975, 1977–1980	Los Angeles, CA		1981–1983	Los Angeles, CA; San Francisco, CA
	1973, 1974, 1976	Los Angeles/San Francisco, CA	PA	1970–1983	Philadelphia
	1981–1983	Los Angeles, CA; San Francisco, CA	RI	1970–1975	Providence
IL[1]	1970–1983	Chicago		1976–1983	New Haven, CT
IN[1]	1970–1983	Chicago, IL	SC	1970–1983	Charleston
KS	1970	Baton Rouge, LA; New Orleans, LA	SD[1]	1970–1983	Minneapolis/St. Paul, MN
	1971–1983	New Orleans, LA	TN	1970	Baton Rouge, LA; New Orleans, LA
KY	1970	Baton Rouge, LA; New Orleans, LA		1971–1983	New Orleans, LA
	1971–1983	New Orleans, LA	TX	1970–1972	New Mexico/West Texas
LA	1970	Baton Rouge; New Orleans		1973–1983	New Orleans, LA
	1971–1983	New Orleans	UT[1]	1970–1983	Minneapolis/St. Paul, MN
MA	1970–1983	Boston	VA	1970–1983	Norfolk
MD	1970–1983	Baltimore	VT	1970–1983	Portland, ME
ME	1970–1983	Portland	WA	1970–1972, 1975, 1978, 1979	Los Angeles, CA
MI[1]	1970–1983	Detroit		1973, 1974, 1976	Los Angeles/San Francisco, CA
MN[1]	1970–1983	Minneapolis/St. Paul		1980–1983	Seattle/Tacoma
MO[1]	1970–1973	Chicago, IL	WI[1]	1970–1983	Chicago, IL
	1974–1983	St. Louis	WV	1970–1983	Norfolk, VA
MS	1970	Baton Rouge, LA; New Orleans, LA	WY[1]	1970–1983	Minneapolis/St. Paul, MN
	1971–1983	New Orleans, LA			

[1]Data from Platt's are converted from cents per gallon to dollars per barrel.

[2]As shown in Platts.

Table TN4.34. Residual fuel oil industrial sector price assignments, 1971, 1974 through 1981

State	Years	State prices used
AK	1980, 1981	HI, WA
DC	1979–1981	MD, VA
MT	1974–1979	ID, ND, SD
ND	1980	MN, MT, SD
NM	1971, 1974–1981	AZ, CO, TX
NV	1974–1978	AZ, CA, ID, OR, UT
OK	1974–1978, 1980	AR, CO, KS, MO, TX
SD	1981	IA, MN, MT, ND, NE
WY	1971, 1974–1981	CO, NE, UT

1970 through 1983: McGraw-Hill, Inc., *Platt's Oil Price Handbook and Oilmanac*, refinery and terminal prices for No. 6 fuel oil, average of highs and lows.

1971, 1977, 1981: Census Bureau, U.S. Department of Commerce, *Census of Manufactures, Fuels and Electric Energy Consumed*, Part 2, Table 3. (Dates shown on the report covers are, respectively, 1972, 1977, and 1982.)

1974 through 1976 and 1978 through 1980: Census Bureau, U.S. Department of Commerce, *Annual Survey of Manufactures, Fuels and Electric Energy Consumed, States by Industry Group*, Table 3.

Taxes

For 1992 forward, SEDS calculates an annual average general sales tax for each state as an average of the 12 monthly values. This method takes into account tax changes during the year. Before 1992, SEDS uses the September 1st state general sales tax for each year.

For 2009, the Federation of Tax Administrators did not publish state general sales tax data, but did publish state general sales tax data for 2010.

Therefore, SEDS estimated the 2009 tax rates by comparing the Federation of Tax Administrators' 2008 and 2010 rates for each state. If no change occurred between 2008 and 2010, SEDS assumes the rate remained constant in 2009. If a rate did change between those years, SEDS consulted the State Department of Revenue to determine the effective date of the rate change.

1996 forward: Federation of Tax Administrators, https://www.taxadmin.org/current-tax-rates.

1995: The Council of State Governments, *The Book of the States 1994-95* and *1996-97*, Table 6.21.

1994: U.S. Advisory Committee on Intergovernmental Relations, *Significant Features of Fiscal Federalism,* Tables 14 and 26.

1993: Census Bureau, U.S. Department of Commerce, *State Tax Review*, Volume 54, No. 31, map titled "State Gasoline, Sales, and Cigarette Tax Rates as of July 1, 1993," sales tax rates.

1987 through 1992: Census Bureau, U.S. Department of Commerce, *State Government Tax Collections,* Table 8, column titled "Percentage rate, September 1."

1984 through 1986: Census Bureau, U.S. Department of Commerce, *Statistical Abstract of the United States*, table titled "State Government Tax Collections and Excise Taxes," column titled "Excise Taxes, General sales and gross receipts."

Consumption

1970 forward: EIA, State Energy Data System, industrial sector residual fuel oil consumption.

Conversion factor: all years

6.287 million Btu per barrel.

Transportation sector

Residual fuel oil is consumed in the transportation sector for vessel bunkering, military use, and railroads. In 1970, vessels consumed 74% of the transportation use of residual fuel oil, and the military and railroads accounted for 24% and 2%, respectively. By the mid-1990s, vessel use had grown to more than 99% of all transportation consumption. For all years, SEDS develops prices for vessel bunkering, and assigns the electric power sector residual fuel oil prices to the military and railroad uses. SEDS adds tax adjustments as described below. For all years, SEDS estimates the transportation sector price as the consumption-weighted average price of the three uses. For 2022 forward, EIA suspended its survey EIA-782 that provided the data and no physical unit prices are available, so SEDS estimates prices using regression equations.

Physical unit prices: 2022 forward

For 2022 forward, EIA suspended its survey EIA-782 that provided the

data and no physical unit prices are available, so SEDS estimates prices using regression equations. The regression equation for each state uses the historical SEDS transportation price for 2010 through 2021 as the Y dependent variable and three X independent variables—the annual average EIA-888 U.S. No. 2 diesel retail price; the annual Refinitiv crude oil Cushing, OK WTI spot price FOB; and the annual average EIA-923 U.S. cost of residual fuel receipts at electric generating plants. After the regression output, SEDS adds state general sales taxes.

Physical unit prices: 1970 through 2021

Vessel bunkering. SEDS calculates annual physical unit prices from actual or estimated U.S. average bunker C prices and electric power sector state and U.S. residual fuel oil prices. First, SEDS adds a weighted average of states' sales taxes to the U.S. bunker C prices, which do not include taxes. Then, SEDS estimates the state bunker C price as the product of the U.S. bunker C-to-electric power price ratio the state electric power residual fuel oil price. SEDS uses these other methods for the following years:

1. For 1982 through 2021, SEDS estimates bunker C prices directly as U.S. average prices for residual fuel oil with sulfur content greater than 1% from EIA's *Annual Energy Review*.
2. For 1975 through 1981, SEDS uses U.S. average bunker C prices from the *Monthly Petroleum Product Price Report* (MPPPR). For 1975 and 1976, SEDS calculates annual average U.S. prices as the simple average of the monthly prices.
3. For 1970 through 1974, no U.S. bunker C prices are available. SEDS estimates the state-level prices, as the product of the average bunker C-to-electric power sector prices ratio for 1975 through 1979 and the state-level electric power prices for 1970 through 1974.

For 1970 through 1986, SEDS assigns missing state prices the adjacent states' average prices, as shown in Table TN4.35.

Military and railroad use. For 1970 through 2021, SEDS assigns the electric power sector residual fuel oil prices to military and railroad uses. The electric power prices include taxes. Because the military does not pay state taxes, the electric power prices are adjusted to remove taxes.

Some states do not have an electric power sector residual fuel oil price, so SEDS assigns the corresponding Census division price.

Average prices. SEDS calculates state transportation sector prices as the consumption-weighted average of the three uses.

Table TN4.35. Residual fuel oil transportation sector price assignments, 1970 through 1986

State	Years	State prices used in the estimation
AL	1970–1974, 1980–1986	FL, GA, MS
CO	1986	KS, NM, UT
CT	1978	NH, VT
DC	1975	MD
	1978	PA
GA	1978	KY, MS
ID	1970, 1979	CA, CO
IL	1975	IA, IN, WI
IN	1980–1986	IL, MI, OH
KS	1975	MO, NE
KY	1980–1984	IL, MO, OH, VA
MD	1978	DE, PA
ME	1975	VT
MN	1986	IL, MI
MT	1983–1985	CO, MN, SD
NC	1975	GA
	1978	KY
	1981, 1983, 1985, 1986	GA, VA
ND	1982–1984	MN, SD
	1986	SD
NH	1975	VT
NM	1983, 1984	CO
NV	1975, 1978	CA
OH	1975	IN, MI
OK	1975	MO, TX
OR	1972	CA, WA
	1975–1986	CA
SC	1975, 1984	GA
	1978	AL, FL
SD	1975, 1978	MN, ND
TN	1970, 1971, 1973, 1974,	AR, GA, MO, MS, VA
	1976, 1977, 1980–1982	
	1975	AR, GA, MO, MS
	1978	AR, MO, MS
UT	1984	AZ, CO, NV
	1975	CO
VA	1975	GA
	1978	KY
WA	1984, 1985	CA
WI	1978, 1982–1985	IL, MI, MN
	1986	IL, MI
WV	1985	MD, OH, PA, VA
WY	1981, 1982, 1985	CO, MN, SD

Btu prices: all years

SEDS converts the physical unit prices to Btu prices using the residual fuel oil conversion factor. SEDS calculates U.S. Btu prices as the average of the state Btu prices, weighted by SEDS consumption data.

Data sources

Prices

2022 forward: Regression equations using historical SEDS transportation price estimates; annual EIA-888 U.S. No. 2 diesel retail price https://www.eia.gov/dnav/pet/hist/LeafHandler.ashx?n=PET&s=EMD_EPD2D_PTE_NUS_DPG&f=A; annual Refinitiv, an LSEG business, crude oil Cushing, OK WTI spot price FOB, as republished on EIA's website https://www.eia.gov/dnav/pet/hist/LeafHandler.ashx?n=PET&s=RWTC&f=A; and annual EIA-923 U.S. cost of residual fuel receipts at electric generating plants, as published in EIA's *Monthly Energy Review* Table 9.9 https://www.eia.gov/totalenergy/data/browser/index.php?tbl=T09.09#/?f=A&start=1973&end=2022&charted=2.

2011 through 2021: EIA, *Petroleum Market Monthly, April issues,* Table 16, column titled "Sulfur Greater Than 1%, Sales to end users." Also available at https://www.eia.gov/dnav/pet/pet_pri_refoth_dcu_nus_a.htm.

1982 through 2010: EIA, *Annual Energy Review,* https://www.eia.gov/totalenergy/data/annual/, Table 5.22, row titled "Sales Prices to End Users, Residual Fuel Oil, Greater Than 1% Sulfur Content."

1970 forward: Electric power sector residual fuel oil price estimates (in physical units) from SEDS.

1976 through 1981: EIA, *Monthly Petroleum Product Price Report*, Table 3.

1975: Federal Energy Administration, *Monthly Petroleum Product Price Report*, Table 3.

Taxes

For 1992 forward, SEDS calculates an annual average general sales tax for each state as a simple average of the 12 monthly values. This method takes into account tax changes during the year. Before 1992, SEDS uses the September 1st state general sales tax for each year.

For 2009, the Federation of Tax Administrators did not publish state general sales tax data, but did publish state general sales tax data for 2010.

Therefore, SEDS estimated the 2009 tax rates by comparing the Federation of Tax Administrators' 2008 and 2010 rates for each state. If no change occurred between 2008 and 2010, SEDS assumes the rate remained constant in 2009. If a rate did change between those years, SEDS consulted the State Department of Revenue to determine the effective date of the rate change.

1996 forward: Federation of Tax Administrators, https://www.taxadmin.org/current-tax-rates.

1995: The Council of State Governments, *The Book of the States 1994-95* and *1996-97*, Table 6.21.

1994: U.S. Advisory Committee on Intergovernmental Relations, *Significant Features of Fiscal Federalism,* Tables 14 and 26.

1993: Census Bureau, U.S. Department of Commerce, *State Tax Review*, Volume 54, No. 31, map titled "State Gasoline, Sales, and Cigarette Tax Rates as of July 1, 1993," sales tax rates.

1987 through 1992: Census Bureau, U.S. Department of Commerce, *State Government Tax Collections,* Table 8, column titled "Percentage rate, September 1."

1976 through 1986: Census Bureau, U.S. Department of Commerce, *Statistical*

Abstract of the United States, table titled "State Government Tax Collections and Excise Taxes," column titled "Excise Taxes, General sales and gross receipts."

Consumption

1970 forward: EIA, State Energy Data System, transportation sector residual fuel oil consumption, including the subcategories for vessel bunkering, military, and railroad uses.

Conversion factor: all years

6.287 million Btu per barrel.

Other petroleum products

The State Energy Data System (SEDS) includes 12 separate products in the category called "other petroleum products." Of the 12 products, SEDS develops prices for the 6 noted with asterisks (*) below. SEDS assumes nearly all of these products are only used in the industrial sector. Only biofuels product supplied is in the transportation sector.

- Aviation gasoline blending components
- Biofuels product supplied
- Crude oil
- Miscellaneous products (*)
- Motor gasoline blending components
- Petrochemical feedstocks, naphtha (*)
- Petrochemical feedstocks, other oils (*)
- Petrochemical feedstocks, still gas (1970-1985) (*)
- Special naphthas (*)
- Still gas
- Unfinished oils
- Waxes (*)

For the six products, SEDS only develops national-level prices because state-level price information is not available. Taxes are not included in any of the estimates. For the industrial sector expenditure calculations, SEDS removes the other five products because they are used as process fuel or intermediate products. For the residential, commercial, and transportation sectors expenditure calculations, SEDS adjusts the amount of distillate fuel oil consumption to include the volumes of biodiesel and renewable diesel product supplied in those sectors, which are all assumed to be consumed as mixed with petroleum distillate fuel oil during end-use consumption. Therefore, all volumes of biodiesel and renewable diesel in those sectors are assigned distillate fuel oil prices for those sectors and included in the distillate fuel oil expenditures data. Due to the lack of individual fuel information, SEDS does not assign prices to the relatively small amount of other biofuels product supplied and removes them. (See Section 7, "Consumption adjustments for calculating expenditures," at https://www.eia.gov/state/seds/seds-technical-notes-complete.php.)

Miscellaneous products

Physical unit prices: all years

The products in this category vary from inexpensive (absorption oils similar to kerosene) to very expensive (hydraulic fluids). SEDS estimates the prices using data from the Bureau of Mines 1970s *Minerals Yearbooks*, which include finished petrochemicals, especially the aromatic hydrocarbons: benzene, toluene, and the xylenes.

SEDS estimates the prices for 1972, 1977, 1982, 1987, and 1992 using *Census of Manufactures* (CM) quantity and value of "aromatics" and "other finished petroleum products" shipped by petroleum refining industries data, or, Standard Industrial Classification (SIC) 2911. The ratio of miscellaneous-products-to-crude-oil price for these five years varies widely. SEDS uses the following ratios, shown rounded, to estimate miscellaneous products' prices for the years indicated:

1970 through 1974:	1.91 times the crude oil price
1975 through 1979:	2.42 times the crude oil price
1980 through 1984:	1.56 times the crude oil price
1985 through 1989:	1.99 times the crude oil price
1990 forward:	1.86 times the crude oil price

CM published the 1992 quantity data in pounds and SEDS converted to barrels using 7.282 pounds per gallon and 42 gallons per barrel.

SEDS cannot calculate a ratio after 1992 because CM only publishes the value of shipments and not the quantity data.

Data sources

2008 forward: EIA, *Petroleum Marketing Annual*, Table 1, column titled "Refiner Acquisition Cost of Crude Oil, Composite" (2008 and 2009), and on EIA website at https://www.eia.gov/dnav/pet/pet_pri_rac2_dcu_nus_a.htm.

1970 through 2007: EIA, *Annual Energy Review,* https://www.eia.gov/totalenergy/data/annual/, Table 5.21, column titled "Composite, Nominal."

1972, 1977, 1982, 1987, 1992: Census Bureau, U.S. Department of Commerce, *Census of Manufactures*, data for Standard Industrial Classification (SIC) 2911 on "Quantity and Value of Shipments by All Producers" as shown in Table 6a from MC77-I-29A, Product Codes 2911054, 2911056 (1972 and 1977); Table 6a-1 from MC87-I-29A, Product Codes 2911D55 and 2911D57 (1982 and 1987); and Table 6a-1 from MC92-I-29A, Product Codes 2911D 55 and 2911D 57 (1992).

Physical unit conversion factors

1992: Gas Processors Suppliers Association in cooperation with the Gas Processors Association, *Engineering Data Book*, 9th Edition, 4th Revision, 1979, pages 16-2 and 16-3, lines 42-47.

Petrochemical feedstocks, naphtha

Physical unit prices: all years

Naphthas for petrochemical feedstock use are oils with boiling points less than 401°F. SEDS estimates consumer prices for 1978 through 1980 using the *Annual Survey of Manufactures* (ASM) series on "Hydrocarbon, Coal, and Coke Materials Consumed" for SIC 2869 (industrial organic chemicals) and SIC 2821 (plastics materials, synthetic resins, and nonvulcanizable elastomers). SEDS estimates a 1982 price from the CM data for SIC 2869 only. Because the ratio of petrochemical-naphtha-to-crude-oil price is reasonably constant in 1978, 1979, 1980, and 1982, SEDS uses the simple average of the four ratios, 1.23, to estimate prices for petrochemical feedstocks, naphtha, for all other years.

Data sources

2008 forward: EIA, *Petroleum Marketing Annual*, Table 1, column titled "Refiner Acquisition Cost of Crude Oil, Composite" (2008 and 2009), and on EIA website at https://www.eia.gov/dnav/pet/pet_pri_rac2_dcu_nus_a.htm.

1970 through 1977, 1981, 1983 through 2007: EIA, *Annual Energy Review*, https://www.eia.gov/aer/contents.htm, Table 5.21, column titled "Composite, Nominal."

1982: Census Bureau, U.S. Department of Commerce, *1982 Census of Manufactures*, M82-I-28F-3(P), page 6, SIC 2869.

1980: Census Bureau, U.S. Department of Commerce, *1980 Annual Survey of Manufactures*, M80(AS)-4.3, page 9, SIC 2821.

1978, 1979: Census Bureau, U.S. Department of Commerce, *1979 Annual Survey of Manufactures*, M79(AS)-4.3, page 8, SIC 2821 and 2869.

Petrochemical feedstocks, other oils

Physical unit prices: all years

Petrochemical feedstocks referred to as "other oils" or "gas oils" are oils with boiling points equal to or greater than 401°F. SEDS estimates consumer gas oil prices for 1978 through 1980 using ASM data for SIC 2865 (cyclic crudes and intermediates). The other-oils-to-crude-oil price ratio is stable, and SEDS uses the average ratio for the 3-year period, 1.607, to estimate prices for petrochemical feedstocks, other oils, for all other years.

Data sources

2008 forward: EIA, *Petroleum Marketing Annual*, Table 1, column titled "Refiner Acquisition Cost of Crude Oil, Composite" (2008 and 2009), and on EIA website at https://www.eia.gov/dnav/pet/pet_pri_rac2_dcu_nus_a.htm.

1970 through 1977, 1981 through 2007: EIA, *Annual Energy Review,* https://www.eia.gov/totalenergy/data/annual/, Table 5.21, column titled "Composite, Nominal."

1979, 1980: Census Bureau, U.S. Department of Commerce, *1980 Annual Survey of Manufactures*, M80(AS)-4.3, page 9, SIC 2865.

1978: Census Bureau, U.S. Department of Commerce, *1979 Annual Survey of Manufactures*, M79(AS)-4.3, page 8, SIC 2865.

Petrochemical feedstocks, still gas (1970 through 1985)

Physical unit prices: all years

The source data for still gas is a mixture of consumer prices and producer prices SIC 2869 and SIC 2911 (petroleum refining). The still-gas-to-crude-oil price ratio varies because still gas is a highly variable gaseous mixture. Value and quantity are available for 1972, 1977 through 1980, and 1982. When CM or ASM data are not available, SEDS uses the average still-gas-to-crude-oil price ratio, 0.759. After 1985, EIA no longer reports feedstock and refinery use of still gas separately and SEDS removes all industrial consumption from the price and expenditure tables. (See Section 7, "Consumption adjustments for calculating expenditures," at https://www.eia.gov/state/seds/sep_prices/notes/pr_consum_adjust.pdf.)

Data sources

1970, 1971, 1981, 1983 through 1985: EIA, *Annual Energy Review,* Table 5.21, "Composite, Nominal."

1982: Census Bureau, U.S. Department of Commerce, *1987 Census of Manufactures*, MC87-I-29A, Table 6a, SIC 2911.

1979, 1980: Census Bureau, U.S. Department of Commerce, *1980 Annual Survey of Manufactures*, M80(AS)-4.3, page 9, SIC 2869.

1978: Census Bureau, U.S. Department of Commerce, *1979 Annual Survey of Manufactures*, M79(AS)-4.3, page 28, SIC 2869.

1972, 1977: Census Bureau, U.S. Department of Commerce, *1977 Census of Manufactures*, MC77-1-29A, page 29A-20, SIC 2911.

Special naphthas

Physical unit prices: all years

SEDS develops prices for special naphthas as the simple average of city prices for "varnish makers and painters naphtha" and two types of "solvent naphtha" published in the *Chemical Marketing Reporter*. For 1984 through 1990, SEDS averages the prices from the first issue of each month; for 1974, 1979, and 1980, when petroleum prices increased rapidly, SEDS averaged prices from 10 randomly selected issues. For all other years, SEDS averaged prices from at least 5 randomly selected issues. For 1991 forward, SEDS estimates special naphtha prices by applying the year-on-year growth rate of the average U.S. price of motor gasoline to the previous year's special naphtha price.

Data sources

1991 forward: EIA, State Energy Data System, U.S. motor gasoline price estimates.

1970 through 1990: Schnell Publishing Co., Inc., *Chemical Marketing Reporter,* selected monthly issues.

Waxes

Physical unit prices: all years

Waxes include fully refined crystalline wax, other refined crystalline wax, and microcrystalline wax. SEDS calculates wax price estimates for 1970 through 1973 and for 1986 forward using data from the U.S. Department of Commerce, Census Bureau. SEDS divides the value of exports by the quantity exported. For 1974 through 1985, SEDS estimates prices by applying price indices to a representative base price calculated from the *Census of Manufacturers* 1967 producer prices for the three wax categories. SEDS calculates a 1967 weighted-average price of $15.75 per barrel. The Bureau of Labor Statistics' *Producer Prices and Producer Price Indexes* publishes annual composite price indices for these three waxes for April 1974 through June 1985. SEDS calculates prices for 1975 through 1984 as the product of the published price indices and the estimated 1967 base price. For 1974 and 1985, the two years with incomplete annual data, SEDS estimates the indices for 1974 and 1985 as the simple average of monthly price indices for that year. The physical unit conversion factors for wax are 280 pounds per barrel; and 1 pound equals 0.45359237 kilograms.

Data sources

2013 forward: Census Bureau, U.S. Department of Commerce, domestic exports of Paraffin Wax, Containing Less Than 0.75 Percent Oil, commodity code 2712200000 and Microcrystalline Petroleum Wax, commodity code 2712900000, extracted from the U.S. International Trade Commission's DataWeb, https://dataweb.usitc.gov.

1989 through 2012: Census Bureau, U.S. Department of Commerce, December issues of Report No. EM-545, titled *Foreign and Domestic Exports* for Paraffin Wax Less Than 0.75% Oil (commodity code 2712200000) and Other Mineral Waxes NESOI (commodity code 2712900000).

1987, 1988: Census Bureau, U.S. Department of Commerce, December issues of Report No. EM-546 (1987) and EM-522 (1988), titled *U.S. Exports, Schedule B, Commodity by Country* for "Paraffin Wax and Other Petroleum Waxes Unblended incl Microcrystalline Wax (commodity code 4925200)."

1986: Census Bureau, U.S. Department of Commerce, December issue of EM-546, *U.S. Exports, Schedule B, Commodity by Country* for "Paraffin Wax, Crystalline, Fully Refined (commodity code 4925210)," "Paraffin Wax, Crystalline, Except Fully Refined (commodity code 4925220)," and "Petroleum Waxes, NSPF incl Microcrystalline Wax (commodity code 4925240)."

1974 through 1985: Bureau of Labor Statistics, U.S. Department of Labor, *Producer Prices and Producer Price Indexes, Annual Supplement*, commodity code 0577.

1974 through 1985: Census Bureau, U.S. Department of Commerce, *Census of Manufactures*, 1967, page 29 A-15, quantity and value of shipments of waxes in 1967.

Table TN4.36. Other petroleum products Btu conversion factors

Petroleum product	Million Btu per barrel
Miscellaneous products	5.796
Petrochemical feedstocks	
Naphtha < 401°F	5.248
Other oils ≥ 401°F	5.825
Special naphthas	5.248
Still gas	
Through 2015	6.000
For 2016 forward	6.287
Waxes	5.537

1970 through 1973: Census Bureau, U.S. Department of Commerce, December issues of FT-410, *U.S. Exports, Schedule B, Commodity by Country* for Paraffin Wax, Crystalline, Fully Refined (commodity code 3326220), Paraffin Wax, Crystalline, Except Fully Refined (commodity code 3326230), and Microcrystalline Wax (commodity code 3326210).

All products

Btu prices: all years

SEDS converts the physical unit prices, in dollars per barrel, to Btu prices, in dollars per million Btu, for the six petroleum products using the conversion factors shown in Table TN4.36. SEDS assigns the U.S. average price for each product to the industrial sector of states in years where there is consumption. The state-level and U.S. “other petroleum” average prices are the average of the six petroleum products, weighted by SEDS consumption data. The variable state average prices reflect the different mix of products consumed.

Table TN4.37 shows national-level estimated prices and expenditures for the other petroleum product components for selected years from 1970 forward.

Additional calculations

SEDS combines a few petroleum products for the “other petroleum” columns displayed in the tables of this report. They include asphalt and road oil, aviation gasoline (total energy only), kerosene, lubricants, petroleum coke, and the industrial sector “other petroleum products” category described in this section. Expenditures are the sum of the expenditures of the components, and SEDS calculates the prices by dividing expenditures by the sum of the adjusted consumption of the components.

Table TN4.37. Other petroleum price and expenditure estimates for the industrial sector, United States, selected years, 1970 through 2023

Year	Petrochemical feedstocks			Special naphthas	Waxes	Miscellaneous products	Average price	Total expenditure
	Naphtha	Other oils	Still gas [a]					
	Prices in nominal dollars per million Btu							
1970	0.80	0.94	0.43	1.96	4.14	1.12	1.16	– –
1975	2.43	2.86	1.31	3.12	4.95	3.85	2.89	– –
1980	6.68	7.64	4.04	10.48	12.01	7.57	7.58	– –
1985	6.27	7.38	3.39	10.87	13.38	9.17	7.76	– –
1990	5.21	6.13	– –	9.71	14.74	7.13	6.48	– –
1995	4.04	4.75	– –	9.84	23.89	5.53	5.44	– –
1996	4.85	5.71	– –	10.50	22.95	6.65	6.32	– –
1997	4.46	5.25	– –	10.46	24.62	6.11	5.80	– –
1998	2.93	3.45	– –	9.02	20.11	4.02	4.09	– –
1999	4.10	4.83	– –	9.93	20.54	5.62	5.49	– –
2000	6.62	7.80	– –	12.69	21.33	9.07	8.02	– –
2001	5.38	6.33	– –	12.10	19.26	7.36	6.75	– –
2002	5.65	6.65	– –	11.40	16.53	7.73	6.90	– –
2003	6.69	7.87	– –	13.16	15.76	9.16	7.94	– –
2004	8.67	10.20	– –	15.67	17.35	11.87	9.93	– –
2005	11.78	13.86	– –	19.14	18.25	16.12	13.41	– –
2006	14.12	16.62	– –	21.73	23.88	19.33	16.22	– –
2007	15.92	18.74	– –	23.79	26.71	21.80	18.35	– –
2008	22.20	26.14	– –	27.78	33.64	30.40	25.42	– –
2009	13.90	16.36	– –	20.20	24.35	19.03	15.92	– –
2010	17.97	21.16	– –	24.10	33.44	24.61	20.52	– –
2011	23.88	28.10	– –	30.44	35.56	32.69	27.05	– –
2012	23.66	27.84	– –	31.33	34.62	32.39	26.76	– –
2013	23.55	27.72	– –	30.47	33.37	32.25	26.73	– –
2014	21.57	25.39	– –	29.27	33.91	29.53	24.99	– –
2015	11.34	13.35	– –	21.53	32.88	15.53	13.98	– –
2016	9.53	11.22	– –	19.21	32.66	13.05	11.92	– –
2017	11.88	13.98	– –	21.57	32.69	16.26	14.47	– –
2018	15.09	17.76	– –	23.98	32.94	20.66	17.90	– –
2019	13.92	16.38	– –	23.01	29.79	19.05	16.68	– –
2020	9.32	10.97	– –	19.18	26.87	12.76	11.66	– –
2021	15.90	18.71	– –	26.41	31.26	21.77	19.07	– –
2022	22.33	26.29	– –	34.51	40.55	30.58	27.25	– –
2023	18.20	21.43	– –	30.91	36.45	24.92	22.51	– –
	Expenditures in millions of nominal dollars							
1970	239	171	32	323	106	96	– –	968
1975	683	793	124	450	166	729	– –	2,946
1980	3,173	6,564	371	2,022	395	1,799	– –	14,324
1985	1,478	3,729	– –	1,733	420	1,308	– –	8,924
1990	1,811	4,622	– –	1,040	491	983	– –	8,947
1995	1,506	3,808	– –	697	970	537	– –	7,517
1996	2,327	4,169	– –	782	1,117	592	– –	8,987
1997	2,394	4,524	– –	756	1,077	597	– –	9,348
1998	1,714	2,828	– –	967	852	478	– –	6,839
1999	2,060	3,918	– –	1,444	769	629	– –	8,820
2000	4,064	5,630	– –	1,235	706	1,081	– –	12,716
2001	2,656	4,194	– –	950	700	920	– –	9,419
2002	3,291	4,202	– –	1,168	532	1,038	– –	10,230
2003	4,099	5,505	– –	1,059	489	1,153	– –	12,305
2004	6,495	7,952	– –	800	534	1,346	– –	17,127
2005	8,227	9,813	– –	1,197	572	1,818	– –	21,627
2006	8,879	13,140	– –	1,522	624	2,630	– –	26,794
2007	8,956	13,947	– –	1,856	585	2,910	– –	28,254
2008	10,596	16,930	– –	2,358	644	4,318	– –	34,846
2009	6,557	6,948	– –	933	298	2,889	– –	17,624
2010	8,818	9,574	– –	629	571	3,906	– –	23,498
2011	11,635	10,919	– –	688	536	5,385	– –	29,164
2012	10,738	7,998	– –	461	529	5,233	– –	24,960
2013	12,196	6,208	– –	3,047	550	5,519	– –	27,521
2014	9,546	6,276	– –	3,106	501	5,396	– –	24,826
2015	4,855	3,058	– –	2,137	406	2,934	– –	13,390
2016	4,003	2,495	– –	1,798	420	2,497	– –	11,212
2017	5,181	3,676	– –	2,164	332	3,233	– –	14,587
2018	6,746	4,246	– –	2,208	409	4,090	– –	17,699
2019	5,521	3,835	– –	2,200	311	3,433	– –	15,299
2020	3,304	2,380	– –	1,660	247	2,177	– –	9,768
2021	5,641	4,059	– –	2,145	369	3,718	– –	15,931
2022	5,930	3,358	– –	3,077	529	5,608	– –	18,501
2023	4,949	2,562	– –	2,758	330	4,393	– –	14,991

[a] Consumption data for this series are not available after 1985.
– – = Not applicable.
Where shown, R = Revised data and (s) = Value less than 0.5 million nominal dollars.

Note: Expenditure totals may not equal sum of components due to independent rounding.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Section 5. Renewable energy

Prices and expenditures for renewable energy sources are based on consumption estimates from the State Energy Data System (SEDS), adjusted to remove consumption that occurs at no cost. Renewable energy sources include: biodiesel, renewable diesel, fuel ethanol, other biofuels, hydroelectric power, geothermal, solar, wind, wood, and biomass waste energy. SEDS only estimates renewable energy prices and expenditures for wood and biomass waste (including biodiesel consumption reported as "Other Biomass Liquids" (OBL) on EIA-923 with biomass waste) because all other renewable energy sources are already included in end-user prices for electricity sales to ultimate customers, in blended petroleum products, or obtained at no cost.

Biodiesel and renewable diesel

The price and expenditure estimates for distillate fuel oil and biomass waste cover the biodiesel and renewable diesel blended into distillate fuel oil and included in the biomass waste data. There are no separate biodiesel and renewable diesel prices or expenditures series in SEDS. However, for 2021 forward, SEDS does further adjust distillate fuel oil consumption to include the relatively small amounts of biodiesel and renewable diesel product supplied, which SEDS assumes are all consumed mixed with regular petroleum distillate fuel oil in the residential, commercial, and transportation sectors, for the SEDS distillate fuel oil prices and expenditures estimates. For more details, see Section 7, "Consumption adjustments for calculating expenditures," at https://www.eia.gov/state/seds/seds-technical-notes-complete.php.

Fuel ethanol

Beginning in 1993, SEDS includes fuel ethanol blended into motor gasoline in its motor gasoline consumption volumes. Since then, the price and expenditure estimates for finished motor gasoline include the fuel ethanol blended into motor gasoline. Before 1993, SEDS estimates fuel ethanol separately from motor gasoline for calculating total energy expenditures. For those years, SEDS estimates fuel ethanol expenditures by assigning motor gasoline prices to the fuel ethanol quantities blended into motor gasoline.

Other biofuels

The price and expenditure estimates for petroleum products cover any other biofuels blended into the products. There is no separate other biofuels price or expenditure series in SEDS. Due to the lack of individual fuel information, SEDS does not assign prices to the relatively small amount of other biofuels product supplied and removes them. For more details, see Section 7, "Consumption adjustments for calculating expenditures," at https://www.eia.gov/state/seds/seds-technical-notes-complete.php.

Hydroelectric, geothermal, solar, and wind energy

In SEDS, it is assumed that there are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy. SEDS consumption values are adjusted by removing these energy sources before calculating energy expenditures, as described in Section 7, "Consumption adjustments for calculating expenditures," at https://www.eia.gov/state/seds/seds-technical-notes-complete.php.

Wood and biomass waste

The State Energy Data System (SEDS) estimates prices for wood and biomass waste (waste). Wood includes wood and wood-derived fuels. Waste is biomass waste, which includes: municipal solid waste from biogenic sources, landfill gas, sludge waste, and agricultural byproducts. Prior to 2001, waste also includes non-biomass waste (municipal solid waste from non-biogenic sources and tire-derived fuel) that EIA cannot separately estimate. For 2006 forward, waste includes "Other Biomass Liquids" (OBL) consumption, including some estimated biodiesel consumption, in the electric power sector. SEDS assumes that taxes

are included in the prices reported on the U.S. Energy Information Administration (EIA) *Residential Energy Consumption Survey*, the *Manufacturing Energy Consumption Survey*, and the various electric power survey forms that are used as the basis for the SEDS price estimates.

Residential sector

Physical unit prices, all years

State-level wood prices for the residential sector are not available. EIA Form EIA-457, "*Residential Energy Consumption Survey*, Fall-Winter 1980-1981" (RECS 1980) and "1993 *Residential Energy Consumption Survey*" (RECS 1993) provide unpublished data on regional prices of wood, but more recent surveys do not have any wood price data. SEDS uses the U.S. average residential distillate fuel oil prices to estimate regional prices for residential wood for all years.

For 1970 through 1989, SEDS derives annual average residential wood prices for the nine Census divisions using the 1980 unpublished Census division price data from RECS 1980 and adjusting them with the ratio of the U.S. average residential distillate fuel oil price for each year and 1980. The Census division estimated prices are assigned to the states within each Census division for 1970 through 1989. For 1990 forward, SEDS derives annual average residential wood prices for the four Census regions using the 1993 unpublished Census region price data from RECS 1993 and adjusting them with the ratio of the U.S. average residential distillate fuel oil price for each year and 1990. SEDS assigns the estimated Census region wood prices to the states within each Census region for 1990 forward.

Btu prices, all years

SEDS converts prices in dollars per cord to dollars per million Btu using the conversion factor of 20 million Btu per cord.

Data sources

Prices

1990 forward: EIA, unpublished data from Form EIA-457, "1993 *Residential Energy Consumption Survey*," https://www.eia.gov/consumption/residential/index.php, Census region compilation of the answers to questions J-28 and J-33 through J-36.

1970 through 1989: EIA, unpublished data from Form EIA-457, "*Residential Energy Consumption Survey*, Fall-Winter 1980-1981" Census division compilation of data on average prices paid for wood.

1970 forward: EIA, U.S. average residential distillate fuel oil prices (DFRCD) from SEDS.

Consumption

1970 forward: EIA, State Energy Data System, residential wood consumption adjusted as described in Section 7, "Consumption adjustments for calculating expenditures," at https://www.eia.gov/state/seds/seds-technical-notes-complete.php.

Conversion factor

20 million Btu per cord.

Commercial sector

Btu prices, 1989 forward

SEDS estimates wood consumption in the commercial sector for two groups: (1) commercial combined-heat-and-power (CHP) and electricity-only facilities, and (2) other commercial entities. State-level wood prices are not available for either of these two groups. SEDS uses the U.S. average price of wood consumed by the electric power sector to approximate price of wood used by commercial CHP and electricity-only facilities. SEDS assigns the state-level residential wood prices to the other commercial entities.

Commercial CHP and electricity-only facilities are the only consumers of waste in the commercial sector. SEDS assigns states with commercial waste consumption the electric power sector annual average U.S. price for waste.

The state-level commercial sector wood and waste prices are consumption-weighted averages of the consumption and prices of the individual components. SEDS adjusts the consumption data to account for quantities obtained at no cost. (See the discussion in Section 7, "Consumption adjustments for calculating expenditures," at https://www.eia.gov/state/seds/seds-technical-notes-complete.php.

Btu prices, 1970 through 1988

Wood and waste consumption and prices are not available for commercial CHP and electricity-only facilities prior to 1989. States with commercial wood consumption are assigned the state-level residential wood price.

Data sources

Prices

1989 forward: EIA, U.S. average consumption-weighted electric power wood and waste prices (WDEID and WSEID) from SEDS.

1970 forward: EIA, state-level residential wood prices (WDRCD) from SEDS.

Consumption

1970 forward: EIA, State Energy Data System, commercial wood and waste consumption adjusted as described in Section 7, "Consumption adjustments for calculating expenditures," at https://www.eia.gov/state/seds/seds-technical-notes-complete.php.

Industrial sector

SEDS develops the industrial sector price estimates for wood and waste combined by dividing industrial sector consumers into two groups: (1) industrial combined heat and power (CHP) and electricity-only facilities and (2) other industrial entities. Wood and waste consumption and prices for industrial CHP and electricity-only facilities are not available prior to 1989. For 1989 forward, SEDS assigns the electric power sector annual average state prices for wood and for waste to the industrial CHP and electricity-only facilities' consumption of wood and waste.

For the other industries, SEDS estimates wood and waste consumed by the manufacturing sector separately by the types of wood and waste within the NAICS categories based on data from the EIA *Manufacturing Energy Consumption Survey* and the U.S. Census Bureau, economic surveys by industry. The state-level industrial sector wood and waste prices are consumption-weighted averages of the prices of the individual wood and waste components of each of the NAICS categories.

For 2011 forward, SEDS assigns industrial landfill gas the average U.S. prices for waste used in the electric power sector. The state-level industrial wood and waste prices are consumption-weighted averages of the prices of landfill gas and wood and waste used by the manufacturing industries.

SEDS adjusts the consumption data used to calculate expenditures to account for estimated quantities of wood and waste obtained at no cost. (See the discussion in Section 7, "Consumption adjustments for calculating expenditures, at https://www.eia.gov/state/seds/seds-technical-notes-complete.php.)

Btu prices, 1998 forward

Manufacturing industries

For 1998 forward, wood and waste prices for the manufacturing industries are consumption-weighted averages based on unpublished data from the Form EIA-846, *Manufacturing Energy Consumption Survey* (MECS). Data from the 1998 MECS are used for 1998 through 2001, data from the 2002 MECS are used for 2002 through 2005, data from the 2006 MECS are used for 2006 through 2010, data from the 2010 MECS are used for 2011 through 2013, data from the 2014 MECS are used for 2014 through 2017, and data from the 2018 MECS are used for 2018 forward. MECS collects data on quantities consumed and quantities purchased in million Btu and expenditures in dollars for five types of wood and waste: pulping liquor, agricultural waste, wood harvested from trees, wood refuse and byproducts from mills, and wood and paper refuse. SEDS uses the quantities purchased and expenditures to calculate average prices for each type of wood and waste. MECS also identifies consumption of the different types of wood and waste by North American Industry Classification System (NAICS). For each of the NAICS industries (311, 321, 322, 337, and other), SEDS calculates an average wood and waste price by using the consumption of each of the five types of wood and waste to weight the average of their respective NAICS categories prices. These average prices by NAICS code are applied to the SEDS estimates of wood and waste consumption by NAICS code in each state to calculate state-level weighted average prices for 1998 forward.

Landfill gas

For 2011 forward, SEDS assigns prices for landfill gas consumption other than for direct use the average U.S. prices of waste consumed by the electric power sector.

Industrial combined-heat-and-power and electricity-only facilities

The SEDS electric power sector annual average state prices for wood and for waste are assigned to the industrial CHP and electricity-only facilities' consumption each year.

Btu prices, 1994 through 1997

Manufacturing industries

For 1994 through 1997, industrial sector wood and waste prices are consumption-weighted averages based on unpublished data from the Form EIA-846, "1994 *Manufacturing Energy Consumption Survey*" (MECS

1994). MECS 1994 collects data on quantities consumed and quantities purchased in million Btu and expenditures in dollars for five types of wood and waste: pulping liquor, agricultural waste, wood harvested from trees, wood refuse and byproducts from mills, and wood and paper refuse. The quantities purchased and expenditures are used to calculate average prices for each type of wood and waste. MECS 1994 also identifies consumption of the different types of wood and waste by Standard Industrial Classification (SIC) categories 20, 24, 25, 26, and other (a subtotal of SIC codes 21 through 23 and 27 through 30). For each of the SIC codes, an average wood and waste price is calculated by using the consumption of each of the five types of wood and waste to weight the average of their respective prices. These average prices by SIC code for 1994 are applied to the SEDS estimates of wood and waste consumption by SIC code in each state to calculate state-level weighted average prices for 1994 and 1995.

For 1996 and 1997, SEDS consumption and price estimates are developed using the 1997 *Economic Census*, which uses the North American Industry Classification System (NAICS). Data for the NAICS industries (311, 321, 322, 337, and other) are used.

Industrial combined-heat-and-power and electricity-only facilities

The SEDS electric power sector annual average state prices for wood and for waste are assigned to the industrial CHP and electricity-only facilities' consumption each year.

Btu prices, 1990 through 1993

Manufacturing industries

For 1990 through 1993, industrial sector wood and waste prices are consumption-weighted averages based on unpublished data from the Form EIA-846, "1991 *Manufacturing Energy Consumption Survey*" (MECS 1991). MECS 1991 collects data on quantities consumed and quantities purchased in million Btu and expenditures in dollars for five types of wood and waste: waste materials, pulping liquor, round wood, wood chips, and biomass. The quantities purchased and expenditures are used to calculate average prices for each type of wood and waste. MECS 1991 also identifies consumption of the different types of wood and waste by Standard Industrial Classification (SIC) categories 20, 24, 26, and other (a subtotal of SIC industries 21 through 25 and 27 through 30). For each of the SIC categories, an average wood and waste price is calculated by using the consumption of each of the five types of wood and waste to weight the average of their respective prices. These average prices by SIC code for 1991 are applied to the SEDS estimates of wood and waste consumption by SIC code in each state to calculate state-level weighted average prices for 1990 through 1993.

Industrial combined-heat-and-power and electricity-only facilities

The SEDS electric power sector annual average state prices for wood and for waste are assigned to the industrial CHP and electricity-only facilities' consumption each year.

Btu prices, 1986 through 1989

Manufacturing industries

For 1986 through 1989, industrial sector wood and waste prices are consumption-weighted averages based on data from the Form EIA-846, "1988 *Manufacturing Energy Consumption Survey*" (MECS 1988). MECS 1988 collects data on inputs of energy for heat, power, and electricity generation and quantities purchased in billion Btu and expenditures in dollars for five types of wood and waste: waste materials, pulping liquor, round wood, wood chips, and biomass. The quantities consumed and expenditures are used to calculate average prices for each type of wood and waste. MECS 1988 also identifies consumption of the different types of wood and waste by Standard Industrial Classification (SIC) categories 20, 24, 26, and other (mainly SIC 25). For each of the SIC codes, an average wood and waste price is calculated by using the consumption of each of the five types of wood and waste to weight the average of the respective prices. These average prices by SIC code for 1988 are applied to the SEDS estimates of wood and waste consumption by SIC code in each state to calculate state-level weighted average prices for 1986 through 1989.

Industrial combined-heat-and-power and electricity-only facilities

Information on industrial combined-heat-and-power (CHP) and electricity-only facilities' use of wood and waste became available beginning in 1989. Although quantities of wood and waste used by industrial CHP and electricity-only facilities are available for 1989, prices are not available. The SEDS electric power sector annual average prices for wood and for waste are assigned to the industrial CHP and electricity-only facilities' consumption in 1989.

Btu prices, 1980 through 1985

For 1980 through 1985, industrial sector wood and waste prices are con-sumption-weighted averages based on data published in the *Manufacturing Energy Consumption Survey: Consumption of Energy, 1985* (MECS 1985), Table 2. MECS 1985 contains data on inputs of energy for heat, power, and electricity generation in trillion Btu for two types of wood and waste: major byproducts and other. MECS 1985 also identifies consumption of the two types of wood and waste by the SIC categories 20, 24, 26, and other (mainly SIC 25). Because no price data were collected on MECS 1985, the average prices for each of the SIC categories developed from MECS 1988 are applied to the MECS 1985 estimates of wood and waste consumption by SIC code in each state to calculate state-level weighted average prices for 1980 through 1985.

Btu prices, 1970 through 1979

There are no data available for estimating industrial prices for wood and waste in 1970 through 1979. Therefore, the 1980 state-level average industrial sector wood and waste prices are used for all states in 1970 through 1979.

Data sources

Prices

2022 forward: EIA, SEDS industrial wood and waste consumption by NAICS categories 311221, 311314, 321113, 321912, 322120, 322130, and 337122, developed from the U.S. Department of Commerce, Census Bureau, 2022 *Economic Census*, Industry Series, https://data.census.gov/cedsci/, data on value of shipments. The number of employees is also used to estimate states that have withheld value of shipments data.

2018 forward: EIA unpublished data from Form EIA-846, "2018 *Manufacturing Energy Consumption Survey*" (MECS), national data on quantities purchased, quantities consumed as fuel, and expenditures for pulping liquor, agricultural waste, wood harvested from trees, wood refuse and byproducts from mills, and wood and paper refuse, by North American Industry Classifications (NAICS) categories.

2017 through 2022: EIA, SEDS industrial wood and waste consumption by NAICS categories 311221, 311314, 321113, 321912, 322121, 322130, and 337122, developed from the U.S. Department of Commerce, Census Bureau, 2017 *Economic Census*, Industry Series, https://data.census.gov/cedsci/, data on value of shipments. The number of employees is also used to estimate states that have withheld value of shipments data.

2014 through 2017: EIA unpublished data from Form EIA-846, "2014 *Manufacturing Energy Consumption Survey*" (MECS), national data on quantities purchased, quantities consumed as fuel, and expenditures for pulping liquor, agricultural waste, wood harvested from trees, wood refuse and byproducts from mills, and wood and paper refuse, by North American Industry Classifications (NAICS) categories.

2011 through 2016: EIA, SEDS industrial wood and waste consumption by NAICS categories 311221, 311314, 321113, 321912, 322121, 322130, and 337122, developed from the U.S. Department of Commerce, Census Bureau, 2012 *Economic Census*, Industry Series, https://data.census.gov/cedsci/, data on value of shipments. The number of employees is also used to estimate states that have withheld value of shipments data.

2011 forward: EIA, SEDS landfill gas consumption other than for direct use, developed from the U.S. Environmental Protection Agency, Landfill Methane Outreach Program database, https://www.epa.gov/lmop/.

1989 forward: EIA, U.S. average consumption-weighted electric power wood and waste prices (WDEID and WSEID) from SEDS.

2011 through 2013: EIA unpublished data from Form EIA-846, "2010 *Manufacturing Energy Consumption Survey*," national data on quantities purchased, quantities consumed as fuel, and expenditures for pulping liquor, agricultural waste, wood harvested from trees, wood refuse and byproducts from mills, and wood and paper refuse, by North American Industry Classifications (NAICS) categories.

2006 through 2010: EIA, SEDS wood and waste consumption by NAICS categories 311221, 311311, 321113, 321912, 322121, 322130, and 337122, developed from the U.S. Department of Commerce, Census Bureau, 2007 *Economic Census*, Industry Series, https://data.census.gov/cedsci/, data on value of shipments. The number of employees from the *2007 Economic Census* is also used.

2006 through 2010: EIA unpublished data from Form EIA-846, "2006 *Manufacturing Energy Consumption Survey*," national data on quantities purchased, quantities consumed as fuel, and expenditures for pulping liquor, agricultural waste, wood harvested from trees, wood refuse and byproducts from mills, and wood and paper refuse, by North American Industry Classifications (NAICS) categories.

2002 through 2005: EIA unpublished data from Form EIA-846, "2002 *Manufacturing Energy Consumption Survey*," national data on quantities purchased, quantities consumed as fuel, and expenditures for pulping liquor, agricultural waste, wood harvested from trees, wood refuse and byproducts from mills, and wood and paper refuse, by North American

Industry Classifications (NAICS) categories.

2001 through 2005: EIA, SEDS wood and waste consumption by NAICS categories 311221, 311311, 321113, 321912, 322121, 322130, and 337122, developed from the U.S. Department of Commerce, Census Bureau, *2002 Economic Census*, Industry Series, https://data.census.gov/cedsci/, Table 2, data on value added in manufacture. The number of employees from the *2002 Economic Census* is also used.

1998 through 2001: EIA, unpublished data from Form EIA-846, "1998 *Manufacturing Energy Consumption Survey*," national data on quantities purchased, quantities consumed as fuel, and expenditures for pulping liquor, agricultural waste, wood harvested from trees, wood refuse and byproducts from mills, and wood and paper refuse, by North American Industry Classifications (NAICS) categories.

1996 through 2000: EIA, SEDS wood and waste consumption by NAICS categories 311221, 311311, 321113, 321912, 322121, 322130, and 337122, developed from the U.S. Department of Commerce, Census Bureau, *1997 Economic Census, Industry Series*, https://data.census.gov/cedsci/, Table 2, data on value added in manufacture. The number of employees from the *1997 Economic Census* is also used.

1994 through 1997: EIA, unpublished data from Form EIA-846, "1994 *Manufacturing Energy Consumption Survey*," national data on quantities purchased, quantities consumed as fuel, and expenditures for pulping liquor, agricultural waste, wood harvested from trees, wood refuse and byproducts from mills, and wood and paper refuse, by Standard Industrial Classifications (SIC) categories.

1990 through 1995: EIA, SEDS wood and waste consumption by SIC categories 20, 24, 25, 26, and other (SIC 21-23 and 27-30) developed from the U.S. Department of Commerce, Census Bureau, *1992 Census of Manufactures, Industry Series*, Table 2, data on value added in manufacture and number of employees.

1990 through 1993: EIA, unpublished data from Form EIA-846, "1991 *Manufacturing Energy Consumption Survey*," national data on quantitiespurchased, quantities consumed as fuel, and expenditures for waste materials, pulping liquor, round wood, wood chips, and biomass.

1986 through 1989: EIA, unpublished data from Form EIA-846, "1988 *Manufacturing Energy Consumption Survey*," national data on inputs of energy for heat, power, and electricity generation, quantities purchased, and expenditures for waste materials, pulping liquor, round wood, wood chips, and biomass by SIC categories.

1986 through 1989: EIA, SEDS wood and waste consumption by Standard Industrial Classification for 1987 developed from the U.S. Department of Commerce, Census Bureau, *1992 Census of Manufactures, Industry Series,* Table 2, revised 1987 data on value added in manufacturing and number of employees.

1980 through 1985: EIA, DOE/EIA-0512(85) *Manufacturing Energy Consumption Survey: Consumption of Energy, 1985*, Table 2. National data on inputs of energy for heat, power, and electricity generation for "Major Byproducts" and "Other" by SIC categories.

1980 through 1985: EIA, SEDS wood and waste consumption by Standard Industrial Classification for 1982 developed from the U.S. Department of Commerce, Census Bureau, *1982 Census of Manufactures, Industry Series,* Table 2, data on value added in manufacturing and number of employees.

1970 through 1979: EIA, SEDS 1980 state-level prices for industrial wood and waste.

Consumption

1970 forward: EIA, State Energy Data System, industrial wood and waste consumption adjusted as described in Section 7, "Consumption adjustments for calculating expenditures," at https://www.eia.gov/state/seds/seds-technical-notes-complete.php.

Electric power sector

State-level data on the electric power sector wood and waste consumption are taken from SEDS and are collected on Form EIA-923, "Power Plant Operations Report," and predecessor forms. All electric generation facilities (utilities and independent power producers) are required to report consumption on Form EIA-923, but there is no collection of price data for wood and waste. SEDS develops state and national wood and waste prices in dollars per million Btu for electric utilities from data reported on Federal Energy Regulatory Commission (FERC) Form 1 and follow-up correspondence. Prices include taxes for all years. Prices are not available for independent power producers. For 2006 forward, waste includes "Other Biomass Liquids" (OBL) consumption reported on Form EIA-923, including some estimated biodiesel consumption, in the electric power sector.

Btu prices: all years

1989 forward

SEDS calculates state-level prices for wood and waste used by electric power plants, in dollars per million Btu, from data obtained from FERC Form 1, FERC Form 423 (through 2007), and Form EIA-412 (through 2000) and by follow-up correspondence to electric companies that are not required to submit those forms. For states with more than one utility using wood and waste, SEDS calculates a consumption-weighted average price. There are anomalies that are unique to waste used for electric power generation. In some cases of municipal and industrial waste, there is no charge, and in other cases the electric power facilities charge a "tipping fee" for accepting the waste. That is, instead of paying for the fuel, the power plants are paid to take the fuel. For states where all electric power facilities pay nothing for the fuel or charge a fee for receiving it, SEDS assigns a price of zero. Although SEDS includes the corresponding consumption in calculating the average price for all fuels consumed by electric utilities in the United States, the expenditure included is zero.

While information on independent power producers' use of wood and waste is available from 1989 forward, data on prices are not available. SEDS uses the average prices for wood and waste consumed by electric utilities for the electric power sector, which includes both electric utilities and independent power producers.

1983 through 1988

A U.S. average price in dollars per million Btu is cal-culated and assigned to all states. The national price is a consumption-weighted average price based on data obtained from FERC Form 1 and Form EIA-412 and by follow-up telephone correspondence with the electric utilities that report use of wood and waste for generating electricity.

Prices are erratic for wood and waste used at electric utilities. In addition to the anomalies of no charge for the fuel and the "tipping fee" mentioned above, handling refuse-derived fuel is more labor intensive than handling conventional fossil fuels. The labor expenses are included in the plant's operating costs, not the fuel costs. Wood and waste prices are also erratic because the demand is relatively small and the pricing mechanism, even for a single facility, may change from year to year. A price or quantity change by a single major user affects the national price more significantly than for any other fuel.

1978 through 1982

National average prices are derived from data collected on Federal Power Commission (FPC) Form 423 and published monthly by EIA in *Cost and Quality of Fuels for Electric Utility Plants* (C&Q). For these years, fossil-fueled plants with a combined capacity of 25 mega-watts or greater were required to report on FPC Form 423. Annual prices of wood and waste sold to electric utilities are developed as quantity-weighted monthly prices for those plants where wood chips and refuse were used as fuel. Beginning in 1983, the reporting threshold was raised to 50 megawatts, and very few plants reported use of wood and waste on the FPC Form 423 in 1983 and subsequent years.

Table TN5.1. Price deflators used for wood and waste prices, 1970 through 1977

Years	Deflator	Years	Deflator
1970	35.1	1974	44.9
1971	37.1	1975	49.2
1972	38.8	1976	52.3
1973	41.3	1977	55.9

A detailed review of data in C&Q showed that some entries were in error by factors of 10, 100, or 1,000. Accordingly, the following corrections were made. For 1982, the February, March, and April quantities for the Florida Power Corporation are divided by 1,000 to make them 80, 40, and 60 short tons, respectively. The March, April, and May costs for Northern States Power are multiplied by 100 to make them $0.70 per million Btu. For the five months from November 1979 through March 1980, the reported quantities of wood delivered to Burlington Electric Co. are divided by 10 to place them in the range of 7,980 to 9,390 short tons. For the eight months from June 1978 through January 1979, seed corn delivered to the Logansport Indiana Electric Department are included in the waste. For February 1978, the reported quantity of wood delivered to the United Power Associates is divided by 1,000 to make it 90 short tons.

1970 through 1977

The annual prices for wood chips and refuse are derived by deflating the 1978 price by using the gross domestic product implicit price deflator based on 1987 dollars. The deflators are shown in Table TN5.1.

Data sources

Prices

2021 forward: Federal Energy Regulatory Commission (FERC), FERC Form 1, "Electric Utility Annual Report" available at eForms Submission History https://ecollection.ferc.gov/submissionHistory, and follow-up correspondence with the electric utilities that report use of wood and

waste for generating electricity.

2008 through 2020: FERC Form 1, "Electric Utility Annual Report," https://www.ferc.gov/general-information-0/electric-industry-forms/form-1-1-f-3-q-electric-historical-vfp-data, and follow-up correspondence with the electric utilities that report use of wood and waste for generating electricity.

2001 through 2007: FERC Form 1, "Electric Utility Annual Report," https://www.ferc.gov/industries-data/electric/general-information/electric-industry-forms, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants" and EIA, Form EIA-423, "Monthly Cost and Quality of fuels for Electric Plants Report," https://www.eia.gov/electricity/data/eia423/, and follow-up telephone calls to the electric utilities that report use of wood and waste for generating electricity.

1983 through 2000: Data reported on FERC Form 1, "Electric Utility Annual Report," https://www.ferc.gov/industries-data/electric/general-information/electric-industry-forms, Form EIA-412, "Annual Report of Public Electric Utilities," FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants," https://www.eia.gov/electricity/data/eia423/, and follow-up telephone calls to the electric utilities that report use of wood and waste for generating electricity.

1978 through 1982: EIA, *Cost and Quality of Fuels for Electric Utility Plants*, table titled "Wood Chips, Refuse, and Petroleum Coke Used as Fuel by Steam-Electric Plants."

1970 through 1978: EIA, *Annual Energy Review 1991*, Appendix C, Gross Domestic Product and Implicit Price Deflator.

Consumption

1970 forward: EIA State Energy Data System, wood and waste consumed by the electric power sector.

Electricity consumed by the end-use sectors

The U.S. Energy Information Administration (EIA) develops annual state-level electricity prices for the residential, commercial, industrial, and transportation sectors. The electricity prices in the State Energy Data System (SEDS) are average prices of electricity sold to ultimate customers in dollars per million British Thermal Unit (Btu). EIA calculates these prices as retail electric revenue divided by the corresponding electricity sales to all customers in each end-use sector. The revenue is the operating revenue and includes all charges and taxes collected.

EIA's electricity consumption data are electricity sales by the electric power sector to ultimate customers in the end use sectors. For the expenditures calculation, SEDS adjusts state-level electricity consumption in the industrial sector to remove estimated refinery use. (See the discussion in Section 7, "Consumption adjustments for calculating expenditures," at https://www.eia.gov/state/seds/seds-technical-notes-complete.php.)

Physical unit prices: 2003 forward

EIA calculates annual state-level physical unit prices for electricity, in dollars per kilowatthour, for the residential, commercial, industrial, and transportation sectors. These prices are the average revenue per kilowatthour of sales by all electric power retailers to a state. In 2003, for Missouri and Tennessee, there are transportation electricity consumption values in SEDS based on U.S. Department of Transportation data, but no comparable transportation sales and revenue in the *Electric Sales and Revenue*. SEDS estimates the prices for each of these states the annual growth rate of the commercial sector price applied to the previous year's transportation sector price.

Physical unit prices: 1990 through 2002

For 1990 through 2002, physical unit prices for states are calculated for all four sectors as the average revenue per kilowatthour of sales by all electric power retailers reporting sales to a state. Revenue and sales data from the Form EIA-861 "Annual Electric Power Industry Report" database, as published in the EIA *Electric Sales and Revenue*, are used to calculate physical unit prices. The prices for the residential and industrial sectors are based directly on the database. Commercial sector prices are calculated as the commercial sector revenues plus the non-transportation portion of "Other" revenues divided by the commercial sales plus the non-transportation portion of "Other" sales. The non-transportation portions of "Other" sales and revenues are estimated using SEDS transportation electricity consumption and the *Electric Sales and Revenue* "Other" sales. The transportation sector prices are based on sales and revenues reported by a non-highway-street-lighting subsector of the "Other" category from the Form EIA-861 database for 1990 through 2000. Transportation electricity prices for 2001 and 2002 are calculated by applying the percentage change in the commercial sector prices between the previous year and the current year to the previous year's transportation sector price.

Transportation electricity prices for Massachusetts and New Jersey in 2000 are out of range and are replaced with prices calculated by applying the percentage change in the commercial sector 1999 and 2000 prices to the 1999 transportation sector price.

Physical unit prices: 1987 through 1989

For 1987 through 1989, state physical unit prices are calculated for all four sectors as the average revenue per kilowatthour of sales by all electric power retailers reporting sales to a state. Revenue and sales data are from the EIA *Electric Power Annual* data files.

The prices for the residential and industrial sectors are based on residential revenues and sales, and industrial revenues and sales, respectively. Commercial sector prices are calculated as the commercial sector revenues plus the non-transportation portion of "Other" revenues divided by the commercial sales plus the non-transportation portion of "Other" sales. The non-transportation portions of "Other" sales and revenues are estimated using SEDS transportation electricity consumption and the *Electric Sales and Revenue* "Other" sales. The transportation sector prices are calculated by dividing the "Other" category revenues by "Other" sales.

Physical unit prices: 1970 through 1986

For 1970 through 1986, preliminary physical unit prices for states are

cal-culated for all four sectors as the average revenue per unit of sales by all electric power facilities reporting sales to a state. The calculation of physical prices is based upon the revenues and sales data from the *Statistical Yearbook* for each year in the series. Data for the residential sector and industrial sector are drawn from their respective columns. The commercial sector is the sum of the columns titled "Commercial," "Street and Highway Lighting," "Other Public Authorities," and "Interdepartmental." The transportation sector is the column titled "Railroads and Railways."

For 1980 through 1986, prices are based on preliminary revenues and sales data in the given year and are replaced with revised data in the following year. The only exception to this rule is the revenues data for AR in 1981; preliminary data are used in this case because of an apparent error in the revised data.

For 1970 through 1981, MD prices are assigned to DC. There are no other missing prices for the residential, commercial, and industrial sectors.

In the transportation sector, many price assignments are made due to the lack of sector-specific price data. Generally, electricity usage in the transportation sector is small; the sector's electricity use ranged from 0.1% to 0.2% of total U.S. electricity consumption in 1970 through 1986. From 1970 through 1986, only 15 states used measurable amounts of electricity in the transportation sector (CA, DC, FL, GA, IL, LA, MA, MD, NJ, NY, OH, PA, TN, VA, and WA). A few individual state prices are unavailable and are assigned the commercial sector prices: LA for 1970 through 1986 and TN for 1970 through 1986. (Prices are available for LA in 1970, 1972, 1973, but those prices are replaced by commercial sector prices to maintain a consistent series for the state.) In addition, MA transportation prices for 1985 and 1986 are estimated by multiplying the MA 1985 and 1986 commercial prices by the average of the ratios of the commercial-to-transportation sector prices for 1980 through 1984. Similarly, the VA 1977 transportation price is estimated by multiplying the VA commercial price in 1977 by the average of the ratios of the commercial-to-transportation sectors prices for 1978 through 1982.

To reconcile national-level electricity prices based on the *Statistical Yearbook* with the EIA national-level electricity prices published in the *Annual Energy Review* (AER), yearly adjustment factors are calculated for the residential, commercial, and industrial sectors as follows: a preliminary U.S. price for each sector is calculated as the average of the state prices, weighted by SEDS consumption. These preliminary U.S. prices are divided by the national-level electricity prices published in the AER, and the quotient is used as an adjustment factor. The preliminary state prices are multiplied by the adjustment factor to produce the final physical unit state prices in those sectors. Because no transportation sector prices are published in the AER, no adjustments are made to that sector and the final physical unit prices are derived solely from the *Statistical Yearbook* sales and revenue data. The annual adjustment factors for the residential, commercial, and industrial sectors are shown in Table TN6.1.

Table TN6.1. Annual electricity price adjustment factors, 1970 through 1986

Year	Residential	Commercial	Industrial
1970	1.05121	1.05712	1.06832
1971	1.05632	1.05926	1.05504
1972	1.05271	1.05514	1.05765
1973	1.06626	1.06188	1.05991
1974	1.09572	1.08098	1.08732
1975	1.09257	1.08098	1.08732
1976	1.07753	1.07755	1.06891
1977	1.06746	1.07675	1.06820
1978	1.06654	1.08273	1.06861
1979	1.06986	1.08349	1.06441
1980	1.04457	1.06109	1.06781
1981	1.05821	1.06943	1.06523
1982	1.06654	1.06351	1.05597
1983	1.05421	1.05301	1.05537
1984	0.99693	1.01924	0.99015
1985	1.00010	1.02008	0.98355
1986	0.99854	1.01518	0.98618

Data source: EIA calculations based on data from the *Annual Energy Review* and the *Statistical Yearbook of the Electric Utility Industry*.

Btu prices: all years

SEDS calculates electricity Btu prices by converting the physical unit price series, in dollars per kilowatthour, to dollars per million Btu using the conversion factor 3,412 Btu per kilowatthour. The U.S. Btu prices are the average of the state Btu prices, weighted by SEDS consumption data that have been adjusted for process fuel consumption in the industrial sector.

Data sources

Prices

1990 forward: Electricity sales to ultimate customers and revenue data

from EIA, as shown in the detailed state data spreadsheets of the *Electric Power Annual*, "Electricity Sales to Ultimate Customers by State by Sector by Provider (EIA-861)" and "Revenue from Electricity Sales to Ultimate Customers by State by Sector by Provider (EIA-861)" at https://www.eia.gov/electricity/data/state/, sector category "Total Electric Industry."

Transportation sector variations:

- 2003 forward: Column labeled "Transportation."
- 2001 and 2002: Prices calculated by EIA.
- 1990 through 2000: Data for non-highway lighting portion of "Other" from the Form EIA-861 database files.
- 1987 through 1989: EIA, *Electric Power Annual 1988*, Tables 19 and 21 (1987 data); *Electric Power Annual*, Tables 27 and 29 (1988 and 1989).

1970 through 1986: Edison Electric Institute (EEI), *Statistical Yearbook of the Electric Utility Industry*, tables titled "Revenues: Total Electric Utility Industry" and "Energy Sales: Total Electric Utility Industry," based on EEI surveys.

1970 through 1986: EIA, *Annual Energy Review 1989*, Table 95, "Retail Prices of Electricity Sold by Electric Utilities, 1960-1989."

Consumption

1970 forward: EIA, State Energy Data System, electricity consumption by end-use sector.

Conversion factor: all years

3,412 Btu per kilowatthour.

Nuclear fuel for generation of electricity

The State Energy Data System (SEDS) develops nuclear fuel prices for the electric power sector. SEDS uses its estimates of electricity generated from nuclear power to calculate expenditures of nuclear fuel.

In the United States, there are two types of nuclear power plants: those that are operated by electric utilities and those that are operated by independent power producers. Each year, regulated electric utility power plants report fuel costs to the Federal Energy Regulatory Commission (FERC). These costs include all taxes, transportation, and handling costs. Independent power plants do not need to report fuel costs to FERC. These costs are estimated by EIA or third-party data sources. Occasionally, the fuel costs at nuclear power plants include small amounts of non-nuclear fuels that are necessary to continue essential plant operations during refueling or maintenance of the reactor.

SEDS estimates state-level nuclear fuel prices in two steps. First, SEDS calculates the total cost of fuels consumed at the plant level as the product of the plant's reported or estimated fuel cost by its net electricity generation. Second, SEDS calculates the total fuel costs at the state level as the sum of all plant costs in a state divided by the sum of their net electricity generation.

SEDS uses the methods described below to estimate prices when there are no plant-level data or, in earlier years, not enough data available to calculate average nuclear fuel prices for a state.

Physical unit prices: 2009 forward

For 2009 forward, SEDS uses the fuel costs of regulated nuclear power plants submitted to FERC, extracted from the power plant dataset maintained by S&P Global Market Intelligence (previously maintained by SNL Financial), to calculate the annual average fuel costs per megawatthour for pressurized water reactors (PWR) and boiling water reactors (BWR). For plants with no reported fuel cost, SEDS calculates a total fuel cost estimate as the product of the U.S. average PWR or BWR fuel cost and its net generation. SEDS sums the plant-level total fuel costs and net generation data to the state level and calculates the average nuclear fuel prices using the method described above.

Physical unit prices: 2007 and 2008

For 2007 and 2008, a complete set of plant-level net electricity generation and nuclear fuel cost estimates is provided by EIA, Office of Electricity,

Renewables, and Uranium Statistics (ERUS) and former Office of Coal, Nuclear, Electric, and Alternate Fuels (CNEAF), extracted from Ventyx Velocity Suite.

Physical unit prices: 2001 through 2006

For 2001 through 2006, when a state has nuclear electricity generation in SEDS, but no fuel cost data are available, a state average physical unit price is estimated by CNEAF, generally based on the average physical unit prices paid by the same type(s) of reactors in other states. For 2001 through 2004, in states where there are nuclear electricity generation and fuel cost data available for only some plants, only those plants with available data are used to calculate the state average price. Occasionally, a plant is excluded from the state price calculation because the cost data are significantly out of range with other plants in the state. The specific states and years with price assignments different than what is outlined above are shown with their price source in Table TN6.2.

Physical unit prices: 1992 through 2000

For 1992 through 2000, in states where there are nuclear electricity generation and fuel cost data for some plants, but not all, available data are used to calculate the state average price. In states where nuclear electricity generation for a specific plant is not available, the plant's fuel cost data also are excluded from the state price calculation. In addition, plants that have no fuel cost data available are excluded from the state price calculation because the cost data are significantly out of range with other plants in the state.

Remaining states with missing cost data are assigned prices using one of the following methods: directly assigning a nearby state or the U.S. price; applying the ratio of the previous year to the current year physical unit nuclear fuel prices for a nearby state to the state's physical unit nuclear fuel price for the previous year; or, assigning the state's average price of the preceding and subsequent year.

When a state has nuclear electricity generation in SEDS, but no fuel cost data are available, the national physical unit nuclear fuel price is used to estimate the state price. The ratio of the current year to the previous year national nuclear fuel price is applied to the state's physical unit nuclear fuel price for the previous year. The national prices used in the estimation are the national averages before missing state prices are assigned.

The states and years estimated using these methodologies are shown in Table TN6.3.

Table TN6.2. Nuclear electricity fuel price estimates, 2001 through 2006

State	Years	Price source
IA	2006	EIA estimate based on 2001–2005 trend of cost decline
IL	2003	Average of 2002 and 2004 Quad Cities cost
	2005, 2006	Quad Cities costs assigned to all plants
MD	2005, 2006	St. Lucie costs assigned
MI	2005	Calvert Cliffs costs assigned
NJ	2002–2004	National year-to-year change
	2005	Oyster Creek assigned St. Lucie costs
	2006	Oyster Creek and Hope Creek assigned St. Lucie costs;
		Salem assigned Callaway costs
NY	2001	Average of Ginna and Nine Mile Point costs
	2002, 2003	Ginna costs assigned
OH	2006	Davis-Besse assigned Perry costs
PA	2005	Susquehanna and Limerick assigned Beaver Valley
		costs; Three Mile Island assigned Oconee costs
	2006	Susquehanna, Limerick, and Peach Bottom assigned
		Beaver Valley costs; Three Mile Island asigned average
		of Oconee, Crystal River, and Arkansas Nuclear One
		costs
TX	2005, 2006	Commanche assigned South Texas costs
WI	2006	Kewaunee assigned average price increase of
		Point Beach and Prairie Island

Physical unit prices: 1970 through 1991

For 1970 through 1991, when a state has nuclear electricity generation in SEDS, but no fuel cost data are available, the national physical unit nuclear fuel price is used to estimate the state price. The ratio of the current year to the previous year national nuclear fuel price is applied to the state's physical unit nuclear fuel price for the previous year. The national prices used in the estimation are the national averages before missing state prices are assigned. The states and years with specific price assignments are shown in Table TN6.3.

Btu prices: all years

SEDS converts nuclear fuel prices from physical unit prices, in dollars per kilowatthour, to dollars per million Btu using the annual nuclear conversion factors listed in SEDS consumption technical notes, Appendix Table B1. SEDS calculates U.S. prices as the average of the state Btu prices, weighted by SEDS consumption data.

Table TN6.3. Nuclear electricity fuel price estimates, 1970 through 2000

State	Years	Price source
AL	1973, 1974, 1976	National year-to-year change
AR	1980	National year-to-year change
AZ	1985	National year-to-year change
CO	1977, 1978, 1982–1984,	
	1986–1989	National year-to-year change
	1985	Assigned zero
CT	1997	Assigned zero
	1998	NH
FL	1997	Excludes Crystal River
GA	1974, 1978	National year-to-year change
	2000	Average of 1999 and 2001
IL	1997	Excludes LaSalle, Zion, and Clinton
	1998	Excludes LaSalle and Clinton
	2000	Excludes Clinton
ME	1972	National year-to-year change
	1997	Assigned zero
MA	1999, 2000	VT
MI	1997	Excludes Big Rock Point
	1998, 1999	Excludes Cook
	2000	Excludes Palisades
MS	1984	National year-to-year change
MO	1984, 1985	National year-to-year change
NC	1982	National year-to-year change
NE	1999, 2000	IA
NJ	2000	Excludes Oyster Creek
NY	1998	Excludes Indian Point 2
OH	1986	National year-to-year change
OR	1975, 1993	Assigned zero
PA	1999	Excludes Three-Mile Island
	2000	Average of Beaver Valley and Peach Bottom
SC	1970	National year-to-year change
	1985	Adjusted for Catawba expenses
TN	1980, 1986, 1987	Assigned zero
WA	1970–1987	U.S.
WI	1970	National year-to-year change

Additional notes

- Nuclear electricity generation levels are negative for Colorado in 1985, Tennessee in 1986 and 1987, Oregon in 1993, and Connecticut in 1997, indicating that the nuclear power plants used more energy than they supplied. In these cases, the fuel prices and expenditures are set to zero.
- For Missouri in 1985, a large credit resulting from litigation is assigned to fuel costs, creating an artificially low price. The 1986 Missouri price, which is in the range of the prices of other nuclear fuel plants, is used to estimate the 1985 price by applying the ratio of the 1985-to-1986 national prices.
- The 1985 U.S. Energy Information Administration (EIA) *Historical Plant Costs and Annual Production Expenses for Selected Electric Plants* has a footnote for the Duke Power Catawba plant in South Carolina stating that the reported production expenses represent only 12.5% of the actual production expenses. The production expenses used in the calculation for the Catawba plant are adjusted accordingly.

Data sources

Prices

2009 forward: EIA, based on data collected on FERC Form 1, “Annual Report of Major Electric Utilities, Licensees, and Others,” extracted from S&P Global Market Intelligence power plant dataset (previously SNL Financial power plant dataset).

2007 and 2008: EIA, Office of Electricity, Renewables, and Uranium Statistics (ERUS) and former Office of Coal, Nuclear, Electric, and Alternate Fuels (CNEAF), from estimates compiled by Ventyx Velocity Suite, based on data collected on FERC Form 1, “Annual Report of Major Electric Utilities, Licensees, and Others.”

2004 through 2006: EIA, CNEAF, from data published in *NuclearFuel*, (a division of Platts, a McGraw-Hill Company). The data are collected on FERC Form 1, “Annual Report of Major Electric Utilities, Licensees, and Others.”

2000 through 2003: EIA, CNEAF, from data published in *Nucleonics Week*, (a division of Platts, a McGraw-Hill Company). The data are collected on FERC Form 1, “Annual Report of Major Electric Utilities, Licensees, and Others.”

1997 through 1999: EIA, CNEAF, from data published in *Nucleonics*

Week, (a division of Platts, a McGraw-Hill Company). The data are collected on FERC Form 1, "Annual Report of Major Electric Utilities, Licensees, and Others," and Form EIA-412, "Annual Report of Public Electric Utilities," https://www.eia.gov/electricity/data/eia412/.

1992 through 1996: EIA, CNEAF, from data compiled by the Utility Data Institute, (a McGraw-Hill Company). The data are collected on FERC Form 1, "Annual Report of Major Electric Utilities, Licensees, and Others," and Form EIA-412, "Annual Report of Public Electric Utilities," https://www.eia.gov/electricity/data/eia412/.

1988 through 1991: EIA, *Electric Plant Cost and Power Production Expenses*, Table 16 (1988-1990) and Table 14 (1991).

1982 through 1987: EIA, *Historical Plant Costs and Annual Production Expenses for Selected Electric Plants*, Table 18 (1982-1984) and Table 20 (1985-1987).

1979 through 1981: EIA, *Thermal Electric Plant Construction Cost and Annual Production Expenses*, pages 267-279 (1979), Table 11 (1980 and 1981).

1975 through 1978: EIA, *Steam Electric Plant Construction Cost and Annual Production Expenses*, "Section II-Nuclear Plants."

1970 through 1974: Federal Power Commission, *Steam Electric Plant Construction Costs and Annual Production Expenses*, data sheets for Nuclear Plants (1970-1973), and "Section II-Nuclear Plants" (1974).

Consumption

1970 forward: EIA, State Energy Data System, electricity generated by nuclear power.

Conversion factors

1985 forward: EIA, annual U.S. average factors calculated using the heat rate reported on Form EIA-860, "Annual Electric Generator Report" (and predecessor forms), and the generation reported on Form EIA-923, "Power Plant Operations Report" (and predecessor forms). The factors are published in the State Energy Data consumption technical notes, Appendix Table B1, https://www.eia.gov/state/seds/seds-technical-notes-complete.php.

1970 through 1984: EIA, annual U.S. average factors calculated by dividing the total heat content consumed in nuclear generating units by the total (net) electricity generated by those nuclear generating units. The heat content and electricity generation are reported on Form FERC-1 and Form EIA-412, and predecessor forms.

Electricity imports and exports

The State Energy Data System (SEDS) includes electricity transmitted across U.S. borders with Canada and Mexico in the electric power sector. Quantities and value of U.S. electricity imports and exports are available in the foreign trade statistics published by the U.S. Department of Commerce, Census Bureau. SEDS uses the annual U.S. total imports and exports quantities and revenues to calculate U.S. annual average prices. SEDS uses the U.S. prices for any state with electricity trade. For 1989 forward, SEDS converts the physical unit prices, in dollars per megawatthour, to Btu prices in dollars per million Btu using the factor of 3,412 Btu per kilowatthour. Imports and exports quantity and revenue data are not available for calculating prices for 1970 through 1988. SEDS estimates prices for those years by applying annual industrial sector electricity price percent change to the 1989 U.S. average electricity imports and exports prices.

Data sources

Prices

1989 forward: U.S. Department of Commerce, Census Bureau, general import and domestic export data, SITC Number 35100, extracted from the U.S. International Trade Commission's DataWeb, https://dataweb.usitc.gov.

1970 through 1988: EIA, State Energy Data System, industrial sector electricity prices.

Consumption

1970 forward: EIA, State Energy Data System, electricity imports and electricity exports.

Conversion factor, all years

3,412 Btu per kilowatthour.

Section 7. Consumption adjustments for calculating expenditures

The State Energy Data System (SEDS) calculates expenditures as the product of the SEDS price estimates and consumption estimates. The prices estimated by SEDS are end-use prices for the final products purchased by end users and the cost of fuels consumed by the electric power sectors. For the SEDS expenditure calculations, SEDS adjusts its consumption estimates to remove process fuel, intermediate products, and other consumption that has no direct fuel costs to the end-use customer, including: hydroelectric, geothermal, solar, and wind energy sources, and some wood and waste. SEDS also excludes electricity exports to Canada and Mexico from the expenditure calculations.

Almost all aspects of energy production, processing, and distribution consume energy as an inherent part of those activities. SEDS industrial and transportation sector consumption estimates include energy consumed in the process of providing energy to end users, called "process fuel." Common examples include: energy used to drill for oil and gas, to transport petroleum and natural gas by pipeline, and to generate and deliver electricity to end users. Energy products that are later used in another energy product for end-use consumption are called "intermediate products." A common example is intermediate motor gasoline blending components that are later consumed as part of finished motor gasoline sold at gas stations.

Process fuel and intermediate products are not directly purchased by the end user and, therefore, SEDS does not estimate these prices. Although the end user does not consume either process fuel or intermediate products directly, the cost is passed on to the end user in the final end-use product price. If SEDS did not remove the process fuel and intermediate products consumption, there would be double counting, first as paid by the "processor" (producer, processor, or transporter) and again in the final price to the end user.

Some renewable energy sources are not purchased directly. The consumption of hydroelectric, geothermal, wind, solar photovoltaic, and solar thermal energy, which SEDS measures as kilowatthours of electricity produced, are not included in the SEDS expenditure estimates because there are no "fuel costs" involved. These all-electric sources are inherently included in the end-use electricity price to ultimate customers, and therefore are part of the SEDS electricity expenditures. Wood and waste can be purchased or obtained at no cost. SEDS adjusts wood consumption estimates in the residential sector, and wood and waste in the commercial and industrial sectors to remove estimated quantities that were obtained at no cost. For 2021 forward, SEDS adjusts biofuels in two ways. First, SEDS adjusts distillate fuel oil consumption in the transportation sector to include biodiesel product supplied and renewable diesel product supplied, because those fuels are sold together at diesel stations. Second, SEDS removes the relatively small amount of U.S.-level other biofuels product supplied consumption from other petroleum products consumed in the transportation sector, because no individual fuel consumption or price data information are available for any of the other biofuels category.

Process fuel consumption adjustments include:

1. Fuel (petroleum, natural gas, steam coal) and electricity consumed at refineries
2. Crude oil lease, plant, and pipeline fuel
3. Natural gas lease and plant fuel
4. Natural gas pipeline and distribution fuel
5. Electrical system energy losses (energy consumed in the generation, transmission, and distribution of electricity)
6. Energy losses and co-products from the production of biodiesel and fuel ethanol

Intermediate product consumption adjustments include:

1. Aviation gasoline blending components
2. Motor gasoline blending components
3. Natural gasoline (1970 through 1983)
4. Natural gasoline, formerly pentanes plus (1984 through 2009)
5. Plant condensate (1970 through 1983)
6. Unfinished oils
7. Unfractionated streams (1970 through 1983)

For 1984 forward, the U.S. Energy Information Administration (EIA) reports historical natural gasoline (including isopentane) and plant

condensate together as pentanes plus. In the 2016 SEDS cycle, EIA renamed the product natural gasoline and EIA now includes it as part of a group of products called hydrocarbon gas liquids (HGL). For 2010 forward, SEDS includes the price of natural gasoline consumed by the petrochemical industry in the aggregate price for HGL. Before 2010, SEDS assumes natural gasoline to be an intermediate product with no end-use price or expenditures.

Renewable energy consumption adjustments include:

1. Solar energy in the residential, commercial, industrial, and electric power sectors
2. Geothermal energy in the residential, commercial, industrial, and electric power sectors
3. Electricity generated from hydropower in the commercial, industrial, and electric power sectors
4. Electricity generated from wind energy in the commercial, industrial, and electric power sectors
5. Estimated portions of wood consumed in the residential sector, and wood and waste in the commercial and industrial sectors that were obtained at no cost
6. Biodiesel product supplied and renewable diesel product supplied added to distillate fuel oil consumption in the transportation sector (2021 forward)
7. Other biofuels product supplied (U.S.-level only) removed from other petroleum products in the transportation sector

In addition, while SEDS does remove the consumption of supplemental gaseous fuels (SGF) from SEDS total consumption estimates to prevent double-counting in both natural gas and the fossil fuels from which they are derived, prices and expenditures of SGF cannot be separately identified and therefore SEDS does not adjust those products in its expenditure calculations.

Table TN7.1 shows the quantities of energy, by state, added or subtracted from SEDS consumption to calculate expenditures for the most recent year. Table TN7.2 shows the adjustments made to SEDS U.S. consumption estimates to derive the net consumption data used to calculate expenditures for 1970 forward.

State adjustment estimates from 1970 forward are available in the SEDS Internet data file, https://www.eia.gov/state/seds/sep_update/pr_adjust_consum_update.csv.

Adjustment procedures

Hydroelectricity, geothermal, solar, and wind energy. Electricity generated from hydropower and geothermal, solar, and wind energy has no fuel cost. Operation and maintenance costs associated with these energy sources are included indirectly in the prices of the electricity sold by power producers. Therefore, SEDS removes consumption of these renewable sources for electricity generation from its expenditure calculations. Direct use of geothermal and solar thermal energy also have no fuel costs and SEDS omits them from its energy expenditure calculations.

Residential wood. Some residential wood is purchased and some is acquired at no cost. For 1970 through 1989, based on responses to the Form EIA-457, "1980 *Residential Energy Consumption Survey*," SEDS developed Census division-level ratios of wood purchased and applied to residential wood consumption in each state in the divisions. For 1990 forward, SEDS uses the Census region ratios from Form EIA-457, "1993 *Residential Energy Consumption Survey*." Table TN7.3 shows the percentage of purchased wood for each Census division or region.

Commercial wood and waste. Some commercial wood and waste are purchased and some are acquired at no cost. SEDS estimates the ratios of conventional commercial wood purchased using the same percentages used for the residential sector (see Table TN7.3). For 1989 through 2011, SEDS estimates the ratios of wood and waste acquired at no cost by commercial combined heat-and-power facilities using the U.S. annual average percentages of wood and waste acquired at no cost by the electric power sector. For 2012 forward, because of lack of information, SEDS no longer estimates these ratios and assumes that all commercial wood and waste to be purchased.

Industrial wood and waste. The cost of industrial wood and waste products used for energy vary widely from more expensive woods to free waste products. SEDS estimates industrial wood and waste consumption for two categories—manufacturing industries and combined heat and power (CHP) facilities—to estimate the amount of wood and waste used at no cost.

For 1994 forward, SEDS adjusts manufacturing wood and waste consumption using data from Form EIA-846, "1994 Manufacturing Energy Survey (MECS)." For 1980 through 1993, SEDS uses Form EIA-846, "1991 Manufacturing Energy Survey." For 1970 through 1979, SEDS uses the 1980 average ratios for each state. The 1991 and 1994 MECS report the quantities consumed and quantities purchased of five types of wood and waste in each of four (MECS 1991) or five (MECS

Table TN7.1. Energy consumption adjustments for calculating expenditures by state, 2023 (billion Btu)

State	Refinery fuel and intermediate products								
	Distillate fuel oil	Residual fuel oil	Hydrocarbon gas liquids [a]	Petroleum coke	Other petroleum [b, c]	Natural gas [d]	Coal	Electricity [e]	Total [c]
AK	-35	—	—	—	-13,821	-3,107	—	-252	-17,215
AL	2,513	—	-19	—	-11,171	-10,580	—	-1,140	-20,396
AR	1,842	—	-12	-1,327	-7,558	-7,103	—	-771	-14,928
AZ	280	—	—	—	—	—	—	—	280
CA	342,604	—	-2,911	-52,088	-143,001	-149,374	—	-6,708	-11,478
CO	361	—	—	-2,068	-6,201	-4,773	—	-1,061	-13,742
CT	3,264	—	—	—	—	—	—	—	3,264
DC	45	—	—	—	—	—	—	—	45
DE	194	—	—	-7,601	-14,280	-12,193	—	-1,112	-34,993
FL	5,404	—	—	—	—	—	—	—	5,404
GA	3,583	—	—	—	—	—	—	—	3,583
HI	1,215	—	—	—	-7,808	—	—	-143	-6,737
IA	5,467	—	—	—	—	—	—	—	5,467
ID	228	—	—	—	—	—	—	—	228
IL	10,528	-57	-618	-30,611	-87,154	-40,249	—	-11,611	-159,773
IN	3,501	-25	-280	-14,485	-39,208	-20,055	—	-5,063	-75,616
KS	1,964	-19	-242	-6,809	-33,788	-24,565	—	-3,845	-67,305
KY	2,482	-13	-173	-8,481	-24,302	-12,547	—	-3,139	-46,172
LA	2,618	—	-403	-72,653	-244,072	-133,654	—	-30,981	-479,144
MA	1,177	—	—	—	—	—	—	—	1,177
MD	1,247	—	—	—	—	—	—	—	1,247
ME	531	—	—	—	—	—	—	—	531
MI	2,504	-6	-85	-3,426	-11,691	-6,002	—	-1,512	-20,218
MN	9,809	-25	-261	-10,078	-36,745	-18,954	—	-4,746	-61,000
MO	2,705	—	—	—	—	—	—	—	2,705
MS	1,954	—	-54	-5,551	-32,898	-31,091	—	-3,361	-71,002
MT	13	—	—	-5,853	-17,120	-10,679	—	-3,381	-37,020
NC	3,062	—	—	—	—	—	—	—	3,062
ND	891	—	-42	-2,458	-5,929	-3,065	—	-764	-11,368
NE	1,614	—	—	—	—	—	—	—	1,614
NH	319	—	—	—	—	—	—	—	319
NJ	2,134	—	—	-12,813	-35,172	-30,204	—	-2,736	-78,791
NM	1,076	—	-15	-1,892	-9,186	-8,680	—	-938	-19,637
NV	34	—	-4	—	-167	-40	—	-3	-180
NY	8,460	—	—	—	—	—	—	—	8,460
OH	4,227	-25	-315	-12,348	-44,462	-24,994	—	-6,026	-83,942
OK	2,778	-25	-307	-10,675	-43,254	-29,527	—	-5,411	-86,422
OR	27,231	—	—	—	—	—	—	—	27,231
PA	4,098	-75	—	-6,985	-19,569	-11,113	—	-1,522	-35,166
RI	979	—	—	—	—	—	—	—	979
SC	2,247	—	—	—	—	—	—	—	2,247
SD	654	—	—	—	—	—	—	—	654
TN	3,111	-13	-108	-5,445	-15,032	-7,614	—	-1,941	-27,041
TX	16,771	—	-845	-147,311	-514,638	-394,863	—	-39,081	-1,079,967
UT	311	—	—	-5,224	-17,263	-5,825	—	-1,887	-29,889
VA	2,928	—	—	—	—	—	—	—	2,928
VT	162	—	—	—	—	—	—	—	162
WA	10,839	—	-1,102	-13,901	-54,132	-40,488	—	-5,691	-104,474
WI	2,340	—	-15	-880	-2,380	-1,218	—	-307	-2,460
WV	1,245	—	—	—	-1,862	-1,667	—	-143	-2,427
WY	210	—	—	-2,747	-10,510	-8,185	—	-1,798	-23,030
US	505,724	-283	-7,813	-443,711	-1,529,138	-1,052,413	—	-147,078	-2,674,711

See footnotes at end of table.

Table TN7.1. Energy consumption adjustments for calculating expenditures by state, 2023 (billion Btu) (continued)

State	Residential		Commercial		Industrial					Transportation		Electrical system energy losses	Total [c]
	Non-combustible renewable energy [f]	Wood	Non-combustible renewable energy [f]	Wood and waste	Crude oil lease, plant, and pipeline fuel	Natural gas lease and plant fuel	Non-combustible renewable energy [f]	Wood and waste	Biofuels production losses [g]	Biofuels product supplied [c]	Natural gas pipeline fuel		
AK	-147	-1,396	-752	-251	—	-322,355	-1	-37	—	—	-448	-28,837	-371,439
AL	-191	-2,393	-48	-430	—	-10,275	-51	-23,369	-29	2,531	-26,555	-476,154	-559,891
AR	-1,575	-3,942	-568	-709	—	-2,630	-160	-12,249	-108	1,854	-6,459	-278,113	-321,441
AZ	-16,220	-2,310	-3,874	-415	—	-2	-409	-1,018	—	280	-17,545	-450,132	-491,646
CA	-83,923	-11,727	-21,133	-2,108	—	-37,728	-12,346	-6,151	-3,397	342,962	-24,444	-799,269	-1,013,702
CO	-4,985	-3,261	-1,569	-586	—	-73,031	-411	-316	-7,619	361	-8,847	-239,731	-354,097
CT	-3,695	-3,385	-1,350	-608	—	—	-199	-2,817	-51	3,264	-5,934	-137,799	-152,574
DC	-472	—	-255	—	—	—	—	—	—	45	-365	-55,282	-56,329
DE	-950	-418	-143	-75	—	—	-44	-8	—	194	-849	-56,868	-94,348
FL	-47,051	-139	-3,056	-25	—	-212	-230	-6,406	-3	5,404	-17,095	-1,178,161	-1,246,973
GA	-1,260	-3,032	-272	-545	—	—	-923	-21,089	—	3,583	-7,579	-793,249	-824,366
HI	-5,054	-10	-1,715	-2	—	—	-246	-25	-11	1,232	—	-48,560	-62,359
IA	-1,173	-3,273	-1,432	-588	—	—	-52	-8,769	-219,987	5,467	-8,814	-132,966	-371,588
ID	-821	-3,249	-661	-584	—	—	-866	-913	-2,381	228	-7,949	-83,793	-100,988
IL	-5,727	-6,494	-2,814	-1,167	—	-5,963	-19	-3,743	-81,621	10,557	-17,401	-789,762	-1,074,484
IN	-4,474	-5,282	-1,492	-949	—	-241	-48	-10,440	-66,070	3,513	-10,794	-605,846	-781,253
KS	-630	-1,786	-851	-321	—	-8,557	-42	-77	-27,062	1,976	-15,038	-171,305	-292,972
KY	-2,259	-2,803	-967	-504	—	-5,881	-7	-6,923	-1,904	2,488	-30,894	-455,197	-553,510
LA	-1,982	-243	-935	-44	—	-173,570	-42	-22,180	—	3,022	-287,136	-416,233	-1,381,510
MA	-5,479	-4,121	-7,980	-741	—	—	-486	-2,531	-2	1,177	-8,005	-249,846	-278,013
MD	-4,287	-3,421	-1,083	-615	—	—	-104	-362	—	1,247	-28,129	-324,821	-361,575
ME	-595	-3,626	-1,774	-652	—	—	-331	-7,001	-1	531	-2,325	-29,053	-44,826
MI	-5,466	-19,427	-1,233	-3,492	—	-4,938	-51	-13,962	-17,394	2,509	-23,448	-556,173	-665,800
MN	-2,012	-10,330	-365	-1,857	—	—	-275	-1,736	-70,812	9,821	-14,418	-294,548	-457,353
MO	-1,952	-5,792	-742	-1,041	—	—	-52	-2,544	-15,192	2,705	-4,014	-499,333	-527,959
MS	-235	-567	-773	-102	—	-1,622	-44	-2,977	-42	2,006	-43,310	-248,546	-369,219
MT	-338	-2,923	-198	-525	—	-3,300	-70	-352	—	13	-2,396	-62,581	-109,704
NC	-3,147	-4,219	-1,011	-758	—	—	-59	-10,195	-3	3,062	-3,756	-742,247	-762,334
ND	-542	-255	-448	-46	—	-80,827	—	-173	-28,692	891	-38,327	-142,306	-302,984
NE	-639	-1,303	-758	-234	—	-50	-12	-396	-104,131	1,614	-5,307	-170,364	-281,580
NH	-723	-3,395	-360	-610	—	—	-40	-1,550	-11	319	-140	-62,987	-69,497
NJ	-7,847	-2,783	-5,001	-500	—	—	-687	-194	—	2,134	-6,801	-422,593	-525,197
NM	-2,161	-3,212	-566	-577	—	-122,815	-245	-88	—	1,093	-13,785	-97,180	-260,265
NV	-6,498	-1,208	-1,375	-217	—	-4	-695	-101	—	34	-4,046	-121,307	-135,630
NY	-7,862	-8,794	-8,213	-1,580	—	-136	-307	-10,626	-3,043	8,460	-39,115	-617,848	-689,063
OH	-3,514	-16,839	-1,500	-3,026	—	-19,473	-444	-3,769	-36,054	4,244	-55,440	-781,067	-1,005,068
OK	-505	-3,784	-96	-680	—	-103,347	-11	-8,680	-62	2,796	-46,715	-219,589	-469,891
OR	-3,015	-7,226	-1,132	-1,299	—	-4	-238	-10,449	-1,342	27,231	-9,965	-107,007	-114,446
PA	-4,410	-11,278	-1,734	-2,027	—	-280,816	-327	-17,125	-6,377	4,098	-52,195	-749,298	-1,160,753
RI	-724	-687	-1,429	-124	—	—	-23	1	—	979	-3,104	-32,323	-37,434
SC	-2,168	-563	-391	-101	—	—	-159	-19,139	—	2,247	-2,333	-547,451	-570,057
SD	-664	-1,163	-970	-209	—	-8	-251	-322	-69,157	654	-6,096	-21,342	-99,529
TN	-322	-2,990	-177	-537	—	-322	-19	-9,321	-8,430	3,117	-19,350	-612,807	-681,317
TX	-14,841	-4,314	-2,602	-775	—	-533,190	-27	-11,690	-18,756	17,180	-262,178	-2,188,116	-4,116,455
UT	-2,726	-2,021	-1,004	-363	—	-20,697	-400	-133	—	311	-12,277	-182,155	-251,665
VA	-3,199	-12,309	-1,444	-2,212	—	-5,037	-22	-11,245	-2	2,928	-11,618	-731,869	-776,029
VT	-608	-1,848	-323	-332	—	—	-7	-81	—	162	-2	-2,238	-5,276
WA	-2,015	-6,798	-1,013	-1,222	—	—	-5	-14,974	-150	10,972	-19,377	-197,840	-347,867
WI	-1,353	-11,526	-473	-2,072	—	—	-442	-23,629	-29,395	2,340	-3,341	-386,487	-461,178
WV	-201	-3,013	-40	-542	—	-148,515	-1,529	-514	—	1,245	-35,565	-218,846	-411,192
WY	-156	-816	-539	-147	—	-56,702	-68	-51	—	210	-13,965	-103,519	-198,993
US	-272,793	-217,695	-90,632	-39,126	—	-2,022,247	-23,524	-312,438	-819,291	482,528	-1,284,986	-18,920,941	-26,678,384

[a] Mainly propane consumed as refinery fuel.
[b] In this table, "other petroleum" consists of: still gas consumed as refinery fuel; and aviation gasoline blending components and motor gasoline blending components used as intermediate products.
[c] U.S. data include other biofuels product supplied not allocated to the states.
[d] Natural gas including supplemental gaseous fuels.
[e] Electricity is converted at the rate of 3,412 Btu per kilowatthour.
[f] Hydroelectric power, geothermal, solar, and wind energy. Solar thermal energy consumed as heat by the commercial and industrial sectors that cannot be separately identified are included in residential consumption.
[g] Energy losses and co-products from the production of biodiesel and fuel ethanol.
— = No consumption. NA = Not available.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table TN7.2. U.S. energy consumption adjustments for calculating expenditures, selected years, 1970 through 2023 (trillion Btu)

		Adjustments														
		Residential		Commercial		Industrial						Transportation				
Year	Total (gross) consumption [a]	Non-combustible renewable energy [b]	Wood	Non-combustible renewable energy [b]	Wood and waste	Refinery fuel and intermediate products	Crude oil lease, plant, and pipeline fuel	Natural gas lease and plant fuel	Non-combustible renewable energy [b]	Wood and waste	Biofuels production losses [c]	Biofuels product supplied [a]	Natural gas pipeline fuel	Electrical system energy losses	Total [a]	Consumption used in expenditure calculations [a,d]
1970	65,939	—	-298	—	-6	-2,714	—	-1,442	-11	-789	—	—	-740	-9,739	-15,739	50,200
1975	69,810	—	-316	—	-6	-2,881	—	-1,434	-11	-824	—	—	-595	-12,183	-18,249	51,561
1980	76,065	—	-627	—	-16	-3,051	—	-1,058	-11	-1,283	—	—	-650	-15,217	-21,913	54,303
1985	74,341	—	-755	—	-18	-2,045	-128	-1,001	-11	-1,503	-42	—	-521	-16,121	-22,145	52,321
1986	74,451	—	-688	—	-20	-2,285	-103	-954	-11	-1,478	-48	—	-501	-16,017	-22,106	52,458
1987	77,113	—	-634	—	-22	-2,485	-72	-1,194	-11	-1,472	-55	—	-538	-16,733	-23,216	53,996
1988	81,077	—	-676	—	-24	-2,695	-85	-1,134	-11	-1,531	-55	—	-633	-17,866	-24,711	56,464
1989	82,703	-57	-684	-3	-73	-2,710	-59	-1,103	-11	-684	-56	—	-650	-18,842	-24,929	57,879
1990	82,278	-60	-337	-3	-59	-2,802	-51	-1,269	-12	-716	-49	—	-682	-19,100	-25,141	57,255
1991	82,213	-62	-353	-3	-60	-2,668	-39	-1,164	-12	-685	-56	—	-621	-19,299	-25,023	57,296
1992	83,843	-65	-371	-4	-66	-2,954	-27	-1,208	-12	-689	-64	—	-608	-19,442	-25,510	58,446
1993	85,220	-67	-308	-4	-68	-2,877	-21	-1,199	-12	-642	-74	—	-643	-20,043	-25,959	59,375
1994	87,080	-68	-292	-5	-66	-2,991	-19	-1,153	-23	-662	-82	—	-706	-20,512	-26,580	60,606
1995	88,732	-69	-292	-5	-66	-2,915	-15	-1,253	-21	-445	-86	—	-723	-20,989	-26,878	61,959
1996	91,474	-70	-303	-6	-77	-3,204	-14	-1,280	-23	-495	-61	—	-734	-21,427	-27,695	63,884
1997	92,106	-70	-233	-6	-80	-3,197	-5	-1,251	-23	-493	-80	—	-781	-21,656	-27,875	64,330
1998	92,615	-69	-207	-8	-71	-3,043	—	-1,212	-21	-493	-86	—	-657	-22,822	-28,689	64,022
1999	94,213	-69	-213	-8	-66	-3,051	—	-1,103	-21	-495	-90	—	-663	-23,410	-29,187	65,119
2000	96,686	-66	-229	-8	-67	-2,951	—	-1,181	-19	-459	-99	—	-661	-24,426	-30,165	66,606
2001	94,391	-64	-210	-9	-46	-3,152	—	-1,139	-16	-437	-108	—	-641	-24,039	-29,859	64,611
2002	95,582	-63	-213	-9	-43	-3,028	—	-1,135	-18	-312	-130	—	-683	-24,277	-29,911	65,733
2003	95,807	-64	-225	-12	-46	-3,141	—	-1,147	-18	-316	-168	—	-609	-24,113	-29,859	66,012
2004	98,045	-65	-230	-13	-46	-3,123	—	-1,123	-15	-537	-201	—	-582	-24,656	-30,589	67,510
2005	98,109	-65	-249	-14	-49	-3,130	—	-1,138	-15	-336	-227	—	-601	-25,167	-30,994	67,162
2006	97,231	-70	-221	-15	-46	-3,211	—	-1,171	-14	-278	-280	—	-602	-24,768	-30,676	66,584
2007	98,988	-75	-244	-16	-46	-3,180	—	-1,257	-10	-293	-369	—	-640	-25,623	-31,754	67,261
2008	96,658	-82	-273	-17	-47	-2,983	—	-1,250	-11	-282	-519	—	-667	-25,151	-31,283	65,420
2009	R 91,631	-89	-292	-19	-48	-2,922	—	-1,304	-11	-457	-603	—	-689	-23,515	-29,950	R 61,790
2010	R 95,129	-96	-313	-23	-45	-2,972	—	-1,316	-11	-392	-727	NA	-692	-24,481	-31,067	64,164
2011	R 93,969	-102	-304	-27	-45	-3,052	—	-1,355	-12	-370	-756	—	-705	-23,650	-30,378	R 63,670
2012	R 91,664	-106	-254	-31	-34	-3,105	—	-1,433	-15	-357	-711	—	-751	-22,894	-29,690	R 62,053
2013	R 94,234	-111	-332	-35	-40	-3,175	—	-1,522	-19	-361	-714	—	-857	-22,862	-30,027	R 64,251
2014	R 95,322	-119	-336	-39	R -40	-3,070	—	-1,562	-13	-370	-766	—	-726	-22,920	-29,962	R 65,408
2015	R 94,463	-126	-288	-41	R -39	-3,057	—	-1,633	-14	-369	-791	—	-707	-22,249	-29,318	R 65,187
2016	R 94,073	-139	R -253	-44	R -39	-3,242	—	-1,599	-16	-366	-821	—	-715	-21,737	-28,975	R 65,130
2017	R 93,893	-152	-243	-49	R -39	-3,290	—	-1,632	-17	-366	-847	—	-751	-20,947	-28,339	R 65,585
2018	R 97,392	-163	R -299	-56	R -39	-3,293	—	-1,743	-18	-324	-855	—	-910	-21,366	-29,071	R 68,348
2019	R 96,565	-176	R -310	-60	R -39	-3,321	—	-1,879	-19	-320	-835	—	-1,058	-20,359	-28,382	R 68,155
2020	R 88,858	-191	R -197	-67	R -39	-3,195	—	-1,907	-20	-318	-735	—	-1,059	-19,058	-26,791	R 62,031
2021	93,350	-208	R -203	-75	R -39	-3,153	—	-1,903	-21	-315	-789	262	-1,173	R -19,598	-27,215	R 65,922
2022	R 94,832	-239	R -256	-84	R -39	-3,217	—	R -1,930	-22	-312	-808	312	R -1,296	R -19,672	-27,553	R 67,004
2023	93,557	-273	-218	-91	-39	-3,182	—	-2,022	-24	-312	-819	483	-1,285	-18,921	-26,678	66,479

[a] U.S. data include other biofuels not allocated to the states.
[b] Hydroelectric power, geothermal, solar, and wind energy. Solar thermal energy consumed as heat by the commercial and industrial sectors that cannot be separately identified are included in residential consumption.
[c] Energy losses and co-products from the production of biodiesel and fuel ethanol.
[d] Includes adjustments of supplemental gaseous fuels and processed fuels not shown on this table.
Where shown, R = Revised data and — = No consumption.

NA = Not available.
Note: · Totals may not equal sum of components due to independent rounding. · All data are available via the full-precision data file (CSV) at https://www.eia.gov/state/seds/seds-data-fuel.php?sid=US.
Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table TN7.3. Percentage of purchased wood in residential wood consumption

1960–1989 Census division	Percent	1990 forward Census region	Percent
New England	40%	Northeast	61%
MIddle Atlantic	29%	Midwest	32%
East North Central	18%	South	39%
West North Central	17%	West	42%
South Atlantic	30%		
East South Central	18%		
West South Central	38%		
Mountain	12%		
Pacific	31%		

1994) SIC categories of industries. SEDS uses the two quantity series to calculate SIC category average ratios of wood and waste obtained at no cost. SEDS applies these SIC ratios to the estimated consumption for each category in each state to estimate the state's manufacturing wood and waste consumption at no cost.

For 1989 through 2011, SEDS estimates the amount of wood and waste consumed at no cost by industrial CHP facilities using the U.S. annual average percentages of wood and waste used at no cost by the electric power sector. For 2012 forward, because of lack of information, SEDS no longer estimates these ratios and assumes all industrial CHP wood and waste consumption to be purchased.

Each state's industrial wood and waste consumption quantities acquired at no cost are the sum of the estimated manufacturing and CHP facilities' quantities for each year.

Biodiesel and renewable diesel product supplied. For 2021 forward, SEDS adds biodiesel product supplied and renewable diesel product supplied to distillate fuel oil consumption in the transportation sector, because those fuels are sold as a mixture at diesel stations. SEDS allocates state-level biodiesel and renewable diesel product supplied proportionally to SEDS estimates of biodiesel and renewable diesel consumption. See explanations of methods and data sources in the petroleum and renewable energy sections of the SEDS consumption technical notes.

Other biofuels product supplied. For 2021 forward, SEDS removes the relatively small amount of other biofuels product supplied consumption from other petroleum products consumption in the transportation sector because no prices are available and the individual fuels cannot be separately identified to adjust the consumption of their respective petroleum products. Other biofuels include small volumes of product supplied for renewable jet fuel, renewable naphtha, renewable propane, and other biofuels that are not biodiesel, fuel ethanol, or renewable diesel. Other biofuels data are for the U.S.-level only.

Refinery fuel. SEDS estimates petroleum refinery consumption of distillate fuel, residual fuel, hydrocarbon gas liquids (mainly propane), petroleum coke, still gas, natural gas, steam coal, and electricity for each state and subtracts it from the state's industrial sector total of each energy source.

The SEDS estimation method for petroleum coke consumption by refineries is described in Section 4 of the SEDS consumption technical notes at https://www.eia.gov/state/seds/seds-technical-notes-complete.php.

For 1970 through 1985, SEDS subtracts refinery consumption of still gas, excluding still gas consumed as petrochemical feedstocks, from the SEDS industrial sector total. For 1986 forward, EIA no longer reports refinery fuel and feedstock use separately, and SEDS removes all industrial still gas consumption for the expenditure calculations. The SEDS estimation method for still gas consumption is described in Section 4 of the SEDS consumption technical notes at https://www.eia.gov/state/seds/seds-technical-notes-complete.php.

Refinery consumption of each of the other fuels is available in the data sources by state or group of states (1970 through 1980) and by Petroleum Administration for Defense (PAD) district (1981 forward). For 2013 forward, SEDS uses unpublished state-level refinery fuel consumption data that would not result in a disclosure of identifiable data reported by respondents of the EIA survey forms. The number of states with usable data varies by fuel, from zero for coal and residual fuel oil to over 10 for electricity.

For each fuel, SEDS subtracts consumption for all the usable states within each PAD district from the district's fuel consumption. SEDS allocates the remainder to the other states in the district proportionally to their operable refining capacities. To reduce the possibility of over-allocating refinery fuel use to states that do not consume much of the fuel, SEDS does not include states where industrial sector consumption of a specific fuel is less than 0.05% (for natural gas, electricity, distillate fuel oil, and propane) or 0.1% (for coal and residual fuel oil) of the U.S. industrial sector total consumption in the allocation.

Table TN7.4. Reallocations of excess refinery fuel consumption, 1970 through 2005

Year	Fuel	Thousand barrels	Excess in:	Reallocated to:
1971	Residual fuel oil	294	Kansas	Oklahoma
1973	Residual fuel oil	45	Group 4: Kentucky, Tennessee	Illinois
1979	HGL (propane)	173	Montana	Wyoming
1985	Residual fuel oil	212	PAD District 4	PAD District 5
1986	Residual fuel oil	403	PAD District 4	PAD District 5
1987	Residual fuel oil	497	PAD District 4	PAD District 5
1988	Residual fuel oil	305	PAD District 4	PAD District 5
1989	Residual fuel oil	381	PAD District 4	PAD District 5
1990	Residual fuel oil	336	PAD District 4	PAD District 5
1991	Residual fuel oil	378	PAD District 4	PAD District 5
1992	Residual fuel oil	361	PAD District 4	PAD District 5
1996	Residual fuel oil	184	PAD District 4	PAD District 5
1997	Residual fuel oil	100	PAD District 4	PAD District 5
1998	Residual fuel oil	82	PAD District 4	PAD District 5
1999	Residual fuel oil	142	PAD District 4	PAD District 5
2000	Residual fuel oil	224	PAD District 4	PAD District 5
2001	Residual fuel oil	149	PAD District 4	PAD District 2
2001	Residual fuel oil	95	PAD District 5	PAD District 2
2001	Residual fuel oil	281	PAD District 5	PAD District 1
2002	Residual fuel oil	33	PAD District 5	PAD District 3
2002	Residual fuel oil	67	PAD District 5	PAD District 4
2003	Residual fuel oil	228	PAD District 5	PAD District 3
2004	Residual fuel oil	296	PAD District 5	PAD District 3
2005	HGL (propane)	198	PAD District 5	PAD District 4

Data source: EIA calculations based on data from the State Energy Data System and the *Petroleum Supply Annual*.

Before 2013, except for a few states with data in the earlier years, refinery fuel consumption is available at the regional level. SEDS estimates state-level refinery consumption of each of the other fuels by allocating the regional data (for state groups before 1981 and PAD district for 1981 through 2012) to the states with operating refineries proportionally to their shares of the region's industrial sector consumption of the fuel.

In some cases, the estimated state refinery fuel consumption of residual fuel or hydrocarbon gas liquids exceeds the estimate of the state's total industrial sector consumption of that fuel. For 1970 through 2006, SEDS reduces the refinery fuel consumption for the PAD district, group of states, or individual state until each state has positive industrial consumption. Then, SEDS reallocates the excess refinery fuel to a different PAD district, group of states, or individual state as shown in Table TN7.4. When this adjustment involves a PAD district or group value, SEDS recalculates the refineries' consumption estimates for all states within the PAD district or group using these new values. For 2007 forward, SEDS no longer makes this adjustment.

The data source withholds refinery consumption of coal for 1999 and 2000, and SEDS uses unpublished estimates developed by the data source office for 1999 and 2000. For 2001 and 2002, the data source publishes U.S. values for refinery consumption of coal, but withholds the PAD district values. SEDS estimates the PAD district values for 2001 and 2002 by applying the PAD districts' shares of the U.S. total in 2000 to the U.S. totals for 2001 and 2002.

Because crude oil consumption is not an individual fuel in SEDS for 1970 through 1980, SEDS allocates the small amounts of crude oil used at refineries during those years to residual and distillate fuels consumed at refineries. SEDS allocates the crude oil refinery use to residual and distillate fuels refinery use proportionally to each fuel's share of the total crude oil used directly (including losses) as residual and distillate fuels in EIA's *Petroleum Supply Annual*, Volume 1, Table 2.

Intermediate products. Aviation gasoline blending components, motor gasoline blending components, natural gasoline (1970 through 1983), plant condensate (1970 through 1983), unfinished oils, and unfractionated streams (1970 through 1983) are used at refineries and blending plants to make end-use petroleum products, such as finished motor gasoline. SEDS removes the consumption of these products for the expenditure calculations. Through 2009, SEDS assumes natural gasoline (formerly pentanes plus) to be an intermediate product and removes its consumption for the expenditures calculations.

Crude oil lease, plant, and pipeline fuel. SEDS assumes all industrial crude oil to be used as lease, plant, and pipeline fuel. Because these are process fuel uses, SEDS removes crude oil consumption for the expenditures calculations.

Natural gas lease and plant fuel. Natural gas consumed as lease and plant fuel is process fuel and SEDS removes it for the expenditures calculations.

Natural gas for pipeline and distribution use. Most of the natural gas consumed in the transportation sector is used to power pipelines. As such, it is a process fuel and SEDS removes it for the expenditures calculations.

Electricity exports. SEDS excludes electricity exported to Canada and Mexico from its calculations of U.S. domestic energy expenditures and U.S. average energy prices.

Electrical system energy losses. The amount of energy lost during generation, transmission, and distribution of electricity (including plant use and unaccounted for electrical energy) is process fuel and SEDS removes it from the sector energy consumption estimates used in the price and expenditure tables. The energy losses are "paid for" when residential, commercial, industrial, and transportation sector consumers buy the electricity produced by the electric power sector.

Energy losses and co-products from the production of biofuels. Fuel ethanol and biodiesel are produced from corn, vegetable oils, animal fats, and other biomass inputs that are not included elsewhere as energy sources. The difference in heat content of the feedstock and biofuels is considered process fuel and SEDS removes it from sector energy consumption estimates used in the price and expenditure tables.

Data sources

Biofuels (excluding fuel ethanol) product supplied. 2021 forward: EIA, *Petroleum Supply Annual*, available here for biodiesel product supplied https://www.eia.gov/dnav/pet/pet_cons_psup_a_EPOORDB_VPP_mbbl_a.htm, renewable diesel product supplied https://www.eia.gov/dnav/pet/pet_cons_psup_a_EPOORDO_VPP_mbbl_a.htm, and other biofuels product supplied https://www.eia.gov/dnav/pet/pet_cons_psup_a_EPOORO_VPP_mbbl_a.htm. Converted to British thermal units (Btu) and allocated to states, when available, using data from SEDS Consumption data estimates. See SEDS consumption technical notes.

Capacity of petroleum refineries. 1982 forward: EIA, *Refinery Capacity Report*, https://www.eia.gov/petroleum/refinerycapacity/ or *Petroleum Supply Annual, Volume 1*, https://www.eia.gov/petroleum/supply/annual/volume1/ tables titled "Number and Capacity of Operable Petroleum Refineries," columns titled, "Crude Capacity, Barrels per Calendar Day, Operating" (1982-1985), "Atmospheric Crude Oil Distillation Capacity, Barrels per Calendar Day, Operating" (1986-2012), and "Atmospheric Crude Oil Distillation Capacity, Barrels per Calendar Day, Total" (2013 forward), adjusted with information on "New, Shutdown and Activated Refineries" (2011 forward).

1979 through 1981: EIA, Energy Data Reports, *Petroleum Refineries in the United States and U.S. Territories*, table titled "Number and Capacity of Petroleum Refineries," column heading, "Crude Capacity, Barrels per Calendar Day, Operating."

1978: EIA, Energy Data Reports, *Petroleum Refineries in the United States and Puerto Rico*, table titled "Number and Capacity of Petroleum Refineries," column heading, "Crude Capacity, Barrels per Calendar Day, Operating."

1970 through 1977: Bureau of Mines, U.S. Department of the Interior, Mineral Industry Surveys, *Petroleum Refineries in the United States and Puerto Rico*, table titled "Number and Capacity of Petroleum Refineries," column heading, "Crude Capacity, Barrels per Calendar Day, Operating."

Fuel consumed at refineries. 2013 forward: EIA unpublished data on fuels consumed at refineries for selected states.

1981 through 1994, 1996, and 1998 forward: EIA, *Petroleum Supply Annual, Volume 1*, https://www.eia.gov/petroleum/supply/annual/volume1/ table titled "Fuels Consumed at Refineries by PAD District." Data for 1991 are from a separately published EIA *Errata* dated November 10, 1992, GPO Stock No. 061-003-00758-9.

1995, 1997: EIA, *Petroleum Supply Annual, Volume 1*, table titled "Fuels Consumed at Refineries by PAD District." Data for coal, electricity, and natural gas are not published, and values for the previous year are repeated.

1976 through 1980: EIA, Energy Data Reports, *Crude Petroleum, Petroleum Products, and Natural Gas Liquids*, table titled "Fuels Consumed for All Purposes at Refineries in the United States, by States."

1970 through 1975: Bureau of Mines, U.S. Department of the Interior, Mineral Industry Surveys, *Crude Petroleum, Petroleum Products, and Natural Gas Liquids*, table titled "Fuels Consumed for All Purposes at Refineries in the United States, by States."

Intermediate products. 1970 forward: EIA, State Energy Data System, industrial sector consumption estimates for aviation gasoline blending components, crude oil, motor gasoline blending components, natural gasoline (1970-1983), natural gasoline (formerly pentanes plus) (1984 through 2009), petroleum coke, plant condensate (1970-1983), still gas (excluding still gas consumed as petrochemical feedstocks, 1970-1985), unfinished oils, and unfractionated streams (1970-1983).

Natural gas lease, plant, and pipeline fuel use. 1997 forward: EIA, *Natural Gas Annual*, Tables 26 through 76. Also available at https://www.eia.gov/dnav/ng/ng_cons_sum_dcu_nus_a.htm.

1993 through 1996: EIA *Historical Natural Gas Annual 1930 Through*

2000, https://www.eia.gov/oil_gas/natural_gas/data_publications/historical_natural_gas_annual/hnga.html Table 15.

1970 through 1992: EIA *Natural Gas Annual 1994, Volume II,* Table 14.

Residential wood. 1990 forward: EIA, unpublished data from the "1993 *Residential Energy Consumption Survey*," Form EIA-457 https://www.eia.gov/consumption/residential/index.php.

1970 through 1989: EIA, unpublished data from the "1980 *Residential Energy Consumption Survey*," Form EIA-457.

Commercial wood and waste. 1990 forward: EIA, unpublished data from the "1993 *Residential Energy Consumption Survey*," Form EIA-457 https://www.eia.gov/consumption/residential/index.php.

1989 through 2011: EIA, SEDS, U.S. annual average percentages of wood and percentages of waste acquired at no cost by the electric power sector. See data sources for estimating wood and waste prices for the electric power sector in Section 5.

1970 through 1989: EIA, unpublished data from the "1980 *Residential Energy Consumption Survey*," Form EIA-457.

Industrial wood and waste. 1994 forward: EIA, unpublished data from the "1994 *Manufacturing Energy Consumption Survey*" (Form EIA-846) https://www.eia.gov/consumption/manufacturing/.

1989 through 2011: EIA, SEDS, U.S. annual average percentages of wood and percentages of waste acquired at no cost by the electric power sector. See data sources for estimating wood and waste prices for the electric power sector in Section 5.

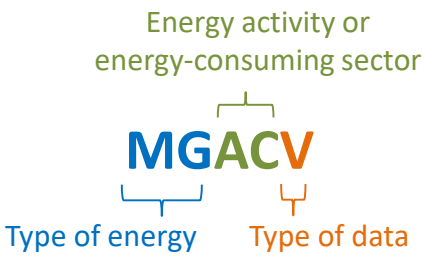
1970 through 1993: EIA, unpublished data from the "1991 *Manufacturing Energy Consumption Survey*" (Form EIA-846).

Appendix A. Mnemonic series names (MSN)

This appendix contains alphabetical listings of the State Energy Data System (SEDS) energy price and expenditure variables, called MSNs. Table A1 presents the price and expenditure variables and Table A2 presents the consumption adjustment variables as described in Section 7, "Consumption adjustments for calculating expenditures."

For each variable, SEDS provides: a brief description; unit of measure; and the formulas used to create the variable. Variables that are entered directly from other sources, but not calculated by SEDS, are independent variables. Formulas for the state calculations have "ZZ" following the variable name, where "ZZ" represents the two-letter state code. The formulas for the United States have "US" following the variable name. If the formula for the states and the United States are the same, only one formula is shown.

The SEDS MSN variables have five-character names that generally consist of the following components:



See Section 1 of the SEDS technical notes for explanation of the five-character MSN code descriptions.

In general, state-level price estimates are independent variables in dollars per million Btu. Estimates of state-level expenditures are equal to the product of the appropriate SEDS consumption estimates by the corresponding prices, in million dollars. The SEDS price and expenditure estimates are in current U.S. dollars and are not adjusted for inflation. For the expenditure calculations, the SEDS consumption data are adjusted for process fuel, intermediate products, and fuels with no direct cost (see discussion in Section 7). Expenditures for the United States are the sum of the 50 states and the District of Columbia. Prices for the United States are the sum of the states' expenditures divided by the sum of the states' consumption or adjusted consumption, converted to dollars per million Btu.

If the consumption variables in a formula are taken directly from the SEDS consumption module (and not adjusted for expenditure calculations), they are listed in Appendix A of the consumption technical notes (https://www.eia.gov/state/seds/sep_use/notes/use_a.pdf) and are not reproduced in this appendix. Generally, if the third and fourth letters of the consumption variables are the same as the corresponding price and expenditure variables, they are from the consumption module. Examples are: TC (total consumption in all energy-consuming sectors), TX (total consumption in all end-use sectors), RC (residential consumption), CC (commercial consumption), IC (industrial consumption), AC (transportation consumption), and EI (electric power sector consumption).

Table A1. Price and expenditure variables

MSN	Description	Unit	Formula
ARICD	Asphalt and road oil price in the industrial sector.	Dollars per million Btu	ARICDZZ is independent. ARICDUS = ARICVUS / ARICBUS * 1000
ARICV	Asphalt and road oil expenditures in the industrial sector.	Million dollars	ARICVZZ = ARICBZZ * ARICDZZ / 1000 ARICVUS = ΣARICVZZ
ARTCD	Asphalt and road oil average price, all sectors.	Dollars per million Btu	ARTCD = ARICD
ARTCV	Asphalt and road oil total expenditures.	Million dollars	ARTCV = ARICV
ARTXD	Asphalt and road oil average price, all end-use sectors.	Dollars per million Btu	ARTXD = ARTXV / ARTXB * 1000
ARTXV	Asphalt and road oil total end-use expenditures.	Million dollars	ARTXV = ARICV
AVACD	Aviation gasoline price in the transportation sector.	Dollars per million Btu	AVACDZZ is independent. AVACDUS = AVACVUS / AVACBUS * 1000
AVACV	Aviation gasoline expenditures in the transportation sector.	Million dollars	AVACVZZ = AVACBZZ * AVACDZZ / 1000 AVACVUS = ΣAVACVZZ
AVTCD	Aviation gasoline average price, all sectors.	Dollars per million Btu	AVTCD = AVACD
AVTCV	Aviation gasoline total expenditures.	Million dollars	AVTCV = AVACV
AVTXD	Aviation gasoline average price, all end-use sectors.	Dollars per million Btu	AVTXD = AVTXV / AVTXB * 1000
AVTXV	Aviation gasoline total end-use expenditures.	Million dollars	AVTXV = AVACV
BMCAS	Biomass generating units capacity factor.	Percent	BMCASZZ is independent. BMCASUS is independent.
BTCAS	Battery storage generating units usage factor.	Percent	BTCASZZ is independent. BTCASUS is independent.
BTGBP	Battery storage units net summer capacity in all sectors.	Thousand kilowatts	BTGBPZZ is independent. BTGBPUS is independent.
BTVHN	Battery electric vehicle (BEV) light-duty stocks.	Thousands of registered vehicles	BTVHNZZ is independent. BTVHNUS is independent.
CCEXDUS	Coal coke exports average price, United States.	Dollars per million Btu	CCEXDUS is independent.
CCEXVUS	Coal coke exports expenditures, United States.	Million dollars	CCEXVUS = CCEXBUS * CCEXDUS / 1000
CCIMDUS	Coal coke imports average price, United States.	Dollars per million Btu	CCIMDUS is independent.

Table A1. Price and expenditure variables (cont.)

MSN	Description	Unit	Formula
CCIMVUS	Coal coke imports expenditures, United States.	Million dollars	CCIMVUS = CCIMBUS * CCIMDUS / 1000
CCNIVUS	Coal coke net imports expenditures, United States.	Million dollars	CCNIVUS = CCIMVUS - CCEXVUS
CLACD	Coal price in the transportation sector.	Dollars per million Btu	CLACDZZ is independent. CLACDUS = CLACVUS / CLACBUS * 1000
CLACV	Coal expenditures in the transportation sector.	Million dollars	CLACVZZ = CLACBZZ * CLACDZZ / 1000 CLACVUS = ΣCLACVZZ
CLCAS	Coal generating units capacity factor.	Percent	CLCASZZ is independent. CLCASUS is independent.
CLCCD	Coal price in the commercial sector.	Dollars per million Btu	CLCCDZZ is independent. CLCCDUS = CLCCVUS / CLCCBUS * 1000
CLCCV	Coal expenditures in the commercial sector.	Million dollars	CLCCVZZ = CLCCBZZ * CLCCDZZ / 1000 CLCCVUS = ΣCLCCVZZ
CLEID	Coal price in the electric power sector.	Dollars per million Btu	CLEIDZZ is independent. CLEIDUS = CLEIVUS / CLEIBUS * 1000
CLEIV	Coal expenditures in the electric power sector.	Million dollars	CLEIVZZ = CLEIBZZ * CLEIDZZ / 1000 CLEIVUS = ΣCLEIVZZ
CLGBP	Coal generating units net summer capacity in all sectors.	Thousand kilowatts	CLGBPZZ is independent. CLGBPUS is independent.
CLICD	Coal price in the industrial sector.	Dollars per million Btu	CLICD = CLICV / CLISB * 1000
CLICV	Coal expenditures in the industrial sector.	Million dollars	CLICVZZ = CLKCVZZ + CLOCVZZ CLICVUS = ΣCLICVZZ
CLKCD	Coal price at coke plants.	Dollars per million Btu	CLKCDZZ is independent. CLKCDUS = CLKCVUS / CLKCBUS * 1000
CLKCV	Coal expenditures at coke plants.	Million dollars	CLKCVZZ = CLKCBZZ * CLKCDZZ / 1000 CLKCVUS = ΣCLKCVZZ
CLOCD	Coal price in the industrial sector other than coke plants.	Dollars per million Btu	CLOCDZZ is independent. CLOCDUS = CLOCVUS / CLOSBUS * 1000
CLOCV	Coal expenditures in the industrial sector other than coke plants.	Million dollars	CLOCVZZ = CLOSBZZ * CLOCDZZ / 1000 CLOCVUS = ΣCLOCVZZ
CLRCD	Coal price in the residential sector.	Dollars per million Btu	CLRCDZZ is independent. CLRCDUS = CLRCVUS / CLRCBUS * 1000

Table A1. Price and expenditure variables (cont.)

MSN	Description	Unit	Formula
CLRCV	Coal expenditures in the residential sector.	Million dollars	CLRCVZZ = CLRCBZZ * CLRCDZZ / 1000 CLRCVUS = ΣCLRCVZZ
CLTCD	Coal average price, all sectors.	Dollars per million Btu	CLTCD = CLTCV / CLSCB * 1000
CLTCV	Coal total expenditures.	Million dollars	CLTCV = CLKCV + CLXCV
CLTXD	Coal average price, all end-use sectors.	Dollars per million Btu	CLTXD = (CLTXV / (CLSCB - CLEIB)) * 1000
CLTXV	Coal total end-use expenditures.	Million dollars	CLTXVZZ = CLACVZZ + CLCCVZZ + CLICVZZ + CLRCVZZ CLTXVUS = ΣCLTXVZZ
CLXCD	Coal average price for all sectors excluding coke plants and refineries.	Dollars per million Btu	CLXCD = CLXCV / CLXCB * 1000
CLXCV	Coal expenditures for all sectors excluding coke plants and refineries.	Million dollars	CLXCVZZ = CLACVZZ + CLCCVZZ + CLEIVZZ + CLOCVZZ + CLRCVZZ CLXCVUS = ΣCLXCVZZ
CYCAS	Natural gas combined cycle generating units capacity factor.	Percent	CYCASZZ is independent. CYCASUS is independent.
DFACD	Distillate fuel oil price in the transportation sector.	Dollars per million Btu	DFACDZZ is independent. DFACDUS = DFACVUS / DFASBUS * 1000
DFACV	Distillate fuel oil expenditures in the transportation sector.	Million dollars	DFACVZZ = DFASBZZ * DFACDZZ / 1000 DFACVUS = ΣDFACVZZ
DFCCD	Distillate fuel oil price in the commercial sector.	Dollars per million Btu	DFCCDZZ is independent. DFCCDUS = DFCCVUS / DFCSBUS * 1000
DFCCV	Distillate fuel oil expenditures in the commercial sector.	Million dollars	DFCCVZZ = DFCSBZZ * DFCCDZZ / 1000 DFCCVUS = ΣDFCCVZZ
DFEID	Distillate fuel oil price in the electric power sector.	Dollars per million Btu	DFEIDZZ is independent. DFEIDUS = DFEIVUS / DFEIBUS * 1000
DFEIV	Distillate fuel oil expenditures in the electric power sector.	Million dollars	DFEIVZZ = DFEIBZZ * DFEIDZZ / 1000 DFEIVUS = ΣDFEIVZZ
DFICD	Distillate fuel oil price in the industrial sector.	Dollars per million Btu	DFICDZZ is independent. DFICDUS = DFICVUS / DFISBUS * 1000
DFICV	Distillate fuel oil expenditures in the industrial sector.	Million dollars	DFICVZZ = DFISBZZ * DFICDZZ / 1000 DFICVUS = ΣDFICVZZ

Table A1. Price and expenditure variables (cont.)

MSN	Description	Unit	Formula
DFRCD	Distillate fuel oil price in the residential sector.	Dollars per million Btu	DFRCDZZ is independent. DFRCDUS = DFRCVUS / DFRSBUS * 1000
DFRCV	Distillate fuel oil expenditures in the residential sector.	Million dollars	DFRCVZZ = DFRSBZZ * DFRCDZZ / 1000 DFRCVUS = ΣDFRCVZZ
DFTCD	Distillate fuel oil average price, all sectors.	Dollars per million Btu	DFTCD = DFTCV / DFSCB * 1000
DFTCV	Distillate fuel oil total expenditures.	Million dollars	DFTCVZZ = DFACVZZ + DFCCVZZ + DFEIVZZ + DFICVZZ + DFRCVZZ DFTCVUS = ΣDFTCVZZ
DFTXD	Distillate fuel oil average price, all end-use sectors.	Dollars per million Btu	DFTXD = (DFTXV / (DFSCB - DFEIB)) * 1000
DFTXV	Distillate fuel oil total end-use expenditures.	Million dollars	DFTXVZZ = DFACVZZ + DFCCVZZ + DFICVZZ + DFRCVZZ DFTXVUS = ΣDFTXVZZ
DKEID	Distillate fuel oil (including kerosene-type jet fuel before 2001) average price in the electric power sector.	Dollars per million Btu	DKEID = DKEIV / DKEIB * 1000
DKEIV	Distillate fuel oil (including kerosene-type jet fuel before 2001) expenditures in the electric power sector.	Million dollars	DKEIVZZ = DFEIVZZ + JFEUVZZ DKEIVUS = ΣDKEIVZZ
ELEXD	Electricity exports average price.	Dollars per million Btu	ELEXD is independent.
ELEXV	Electricity exports expenditures.	Million dollars	ELEXVZZ = ELEXBZZ * ELEXDZZ / 1000 ELEXVUS = ΣELEXVZZ
ELGBP	Total (all fuels) electric generating units net summer capacity in all sectors.	Thousand kilowatts	ELGBPZZ is independent. ELGBPUS is independent.
ELIMD	Electricity imports average price.	Dollars per million Btu	ELIMD is independent.
ELIMV	Electricity imports expenditures.	Million dollars	ELIMVZZ = ELIMBZZ * ELIMDZZ / 1000 ELIMVUS = ΣELIMVZZ
ELVHN	Total electric vehicle (EV) light-duty stocks.	Thousands of registered vehicles	ELVHNZZ = BTVHNZZ + PHVHNZZ
ELVHS	Electric vehicle (EV) share of total light-duty vehicles.	Percent	ELVHSZZ = ELVHNZZ / LDVHNZZ * 100

Table A1. Price and expenditure variables (cont.)

MSN	Description	Unit	Formula
EMACV	Fuel ethanol, excluding denaturant, expenditures in the transportation sector (through 1992).	Million dollars	EMACVZZ = EMACBZZ * MGACDZZ / 1000 EMACVUS = ΣEMACVZZ
EMCCV	Fuel ethanol, excluding denaturant, expenditures in the commercial sector (through 1992).	Million dollars	EMCCVZZ = EMCCBZZ * MGCCDZZ / 1000 EMCCVUS = ΣEMCCVZZ
EMICV	Fuel ethanol, excluding denaturant, expenditures in the industrial sector (through 1992).	Million dollars	EMICVZZ = EMICBZZ * MGACDZZ / 1000 EMICVUS = ΣEMICVZZ
EMTCV	Fuel ethanol, excluding denaturant, total expenditures (through 1992).	Million dollars	EMTCVZZ = EMACVZZ + EMCCVZZ + EMICVZZ EMTCVUS = ΣEMTCVZZ
ESACD	Electricity price in the transportation sector.	Dollars per million Btu	ESACDZZ is independent. ESACDUS = ESACVUS / ESACBUS * 1000
ESACV	Electricity expenditures in the transportation sector.	Million dollars	ESACVZZ = ESACBZZ * ESACDZZ / 1000 ESACVUS = ΣESACVZZ
ESCCD	Electricity price in the commercial sector.	Dollars per million Btu	ESCCDZZ is independent. ESCCDUS = ESCCVUS / ESCCBUS * 1000
ESCCV	Electricity expenditures in the commercial sector.	Million dollars	ESCCVZZ = ESCCBZZ * ESCCDZZ / 1000 ESCCVUS = ΣESCCVZZ
ESICD	Electricity price in the industrial sector.	Dollars per million Btu	ESICDZZ is independent. ESICDUS = ESICVUS / ESISBUS * 1000
ESICV	Electricity expenditures in the industrial sector.	Million dollars	ESICVZZ = ESISBZZ * ESICDZZ / 1000 ESICVUS = ΣESICVZZ
ESRCD	Electricity price in the residential sector.	Dollars per million Btu	ESRCDZZ is independent. ESRCDUS = ESRCVUS / ESRCBUS * 1000
ESRCV	Electricity expenditures in the residential sector.	Million dollars	ESRCVZZ = ESRCBZZ * ESRCDZZ / 1000 ESRCVUS = ΣESRCVZZ
ESTCD	Electricity average price, all sectors.	Dollars per million Btu	ESTCD = ESTCV / ESSCB * 1000
ESTCV	Electricity total expenditures.	Million dollars	ESTCVZZ = ESACVZZ + ESCCVZZ + ESICVZZ + ESRCVZZ ESTCVUS = ΣESTCVZZ
ESTXD	Electricity average price, all end-use sectors.	Dollars per million Btu	ESTXD = ESTXV / ESSCB * 1000

Table A1. Price and expenditure variables (cont.)

MSN	Description	Unit	Formula
ESTXV	Electricity total end-use expenditures.	Million dollars	ESTXVZZ = ESACVZZ + ESCCVZZ + ESICVZZ + ESRCVZZ ESTXVUS = ΣESTXVZZ
FFGBP	Fossil fuel total generating units net summer capacity in all sectors.	Thousand kilowatts	FFGBPZZ is independent. FFGBPUS is independent.
EV0CN	Legacy charging ports for electric vehicles.	Number	EV0CNZZ is independent. EV0CNUS is independent.
EV1CN	Level 1 charging ports for electric vehicles.	Number	EV1CNZZ is independent. EV1CNUS is independent.
EV2CN	Level 2 charging ports for electric vehicles.	Number	EV2CNZZ is independent. EV2CNUS is independent.
EV2CR	Level 2 charging ports per location.	Number	EV2CRZZ is independent. EV2CRUS is independent.
EVCHN	Total charging ports for electric vehicles.	Number	EVCHNZZ is independent. EVCHNUS is independent.
EVCHP	Total electric vehicle charging locations.	Number	EVCHPZZ is independent. EVCHPUS is independent.
EVDCN	DC fast charging ports for electric vehicles.	Number	EVDCNZZ is independent. EVDCNUS is independent.
EVDCR	DC fast charging ports per location.	Number	EVDCRZZ is independent. EVDCRUS is independent.
EVNNP	Electric vehicle charging locations with both networked and non-networked ports.	Number	EVNNPZZ is independent. EVNNPUS is independent.
EVNOP	Electric vehicle charging locations with non-networked ports only.	Number	EVNOPZZ is independent. EVNOPUS is independent.
EVNTP	Electric vehicle charging locations with networked ports only.	Number	EVNTPZZ is independent. EVNTPUS is independent.
EVPPP	Electric vehicle charging locations with both public and private ports.	Number	EVPPPZZ is independent. EVPPPUS is independent.
EVPUP	Electric vehicle charging locations with public ports only.	Number	EVPUPZZ is independent. EVPUPUS is independent.
EVPVP	Electric vehicle charging locations with private ports only.	Number	EVPVPZZ is independent. EVPVPUS is independent.

Table A1. Price and expenditure variables (cont.)

MSN	Description	Unit	Formula
FNICD	Petrochemical feedstocks, naphtha less than 401° F, price in the industrial sector.	Dollars per million Btu	FNICDZZ is independent. FNICDUS = FNICVUS / FNICBUS * 1000
FNICV	Petrochemical feedstocks, naphtha less than 401° F, expenditures in the industrial sector.	Million dollars	FNICVZZ = FNICBZZ * FNICDZZ / 1000 FNICVUS = ΣFNICVZZ
FOICD	Petrochemical feedstocks, other oils equal to or greater than 401° F, price in the industrial sector.	Dollars per million Btu	FOICDZZ is independent. FOICDUS = FOICVUS / FOICBUS * 1000
FOICV	Petrochemical feedstocks, other oils equal to or greater than 401° F, expenditures in industrial sector.	Million dollars	FOICVZZ = FOICBZZ * FOICDZZ / 1000 FOICVUS = ΣFOICVZZ
FSICD	Petrochemical feedstocks, still gas, price in the industrial sector (through 1985).	Dollars per million Btu	FSICDZZ is independent. FSICDUS = FSICVUS / FSICBUS * 1000
FSICV	Petrochemical feedstocks, still gas, expenditures in the industrial sector (through 1985).	Million dollars	FSICVZZ = FSICBZZ * FSICDZZ / 1000 FSICVUS = ΣFSICVZZ
GDPRV	Current-dollar gross domestic product (GDP).	Million dollars	GDPRVZZ is independent. GDPRVUS is independent.
GDPRX	Real gross domestic product (GDP).	Million chained (2017) dollars	GDPRXZZ is independent. GDPRXUS is independent.
GECAS	Geothermal generating units capacity factor.	Percent	GECASZZ is independent. GECASUS is independent.
GEGBP	Geothermal generating units net summer capacity in all sectors.	Thousand kilowatts	GEGBPZZ is independent. GEGBPUS is independent.
HLACD	Hydrocarbon gas liquids price in the transportation sector.	Dollars per million Btu	Before 2010: HLACDZZ is independent. HLACDUS = HLACVUS / HLACBUS * 1000 2010 forward: HLACDZZ = PQACDZZ HLACDUS = HLACVUS / HLACBUS * 1000
HLACV	Hydrocarbon gas liquids expenditures in the transportation sector.	Million dollars	HLACVZZ = HLACBZZ * HLACDZZ / 1000 HLACVUS = ΣHLACVZZ

Table A1. Price and expenditure variables (cont.)

MSN	Description	Unit	Formula
HLCCD	Hydrocarbon gas liquids price in the commercial sector.	Dollars per million Btu	Before 2010: HLCCDZZ is independent. HLCCDUS = HLCCVUS / HLCCBUS * 1000 2010 forward: HLCCDZZ = PQCCDZZ HLCCDUS = HLCCVUS / HLCCBUS * 1000
HLCCV	Hydrocarbon gas liquids expenditures in the commercial sector.	Million dollars	HLCCVZZ = HLCCBZZ * HLCCDZZ / 1000 HLCCVUS = ΣHLCCVZZ
HLICD	Hydrocarbon gas liquids price in the industrial sector.	Dollars per million Btu	Before 2010: HLICDZZ is independent. HLICDUS = HLICVUS / HLISBUS * 1000 2010 forward: HLICD = HLICV / HLISB * 1000
HLICV	Hydrocarbon gas liquids expenditures in the industrial sector.	Million dollars	Before 2010: HLICVZZ = HLISBZZ * HLICDZZ HLICVUS = ΣHLICVZZ 2010 forward: HLICVZZ = OHICVZZ + PQICVZZ HLICVUS = ΣHLICVZZ
HLRCD	Hydrocarbon gas liquids price in the residential sector.	Dollars per million Btu	Before 2010: HLRCDZZ is independent. HLRCDUS = HLRCVUS / HLRCBUS * 1000 2010 forward: HLRCDZZ = PQRCDZZ HLRCDUS = HLRCVUS / HLRCBUS * 1000
HLRCV	Hydrocarbon gas liquids expenditures in the residential sector.	Million dollars	HLRCVZZ = HLRCBZZ * HLRCDZZ / 1000 HLRCVUS = ΣHLRCVZZ
HLTCD	Hydrocarbon gas liquids average price, all sectors.	Dollars per million Btu	HLTCD = HLTCV / HLSCB * 1000
HLTCV	Hydrocarbon gas liquids total expenditures.	Million dollars	HLTCVZZ = HLACVZZ + HLCCVZZ + HLICVZZ + HLRCVZZ HLTCVUS = ΣHLTCVZZ
HLTXD	Hydrocarbon gas liquids average price, all end-use sectors.	Dollars per million Btu	HLTXD = HLTXV / HLSCB * 1000

Table A1. Price and expenditure variables (cont.)

MSN	Description	Unit	Formula
HLTXV	Hydrocarbon gas liquids total end-use expenditures.	Million dollars	HLTXVZZ = HLACVZZ + HLCCVZZ + HLICVZZ + HLRCVZZ HLTXVUS = ΣHLTXVZZ
HPCAS	Hydroelectric pumped storage generating units usage factor.	Percent	HPCASZZ is independent. HPCASUS is independent.
HPGBP	Hydroelectric pumped storage generating units net summer capacity in all sectors.	Thousand kilowatts	HPGBPZZ is independent. HPGBPUS is independent.
HVCAS	Conventional hydroelectric generating units capacity factor.	Percent	HVCASZZ is independent. HVCASUS is independent.
HVGBP	Conventional hydroelectric power generating units net summer capacity in all sectors.	Thousand kilowatts	HVGBPZZ is independent. HVGBPUS is independent.
JFACD	Jet fuel price in the transportation sector.	Dollars per million Btu	JFACDZZ is independent. JFACDUS = JFACVUS / JFACBUS * 1000
JFACV	Jet fuel expenditures in the transportation sector.	Million dollars	JFACVZZ = JFACBZZ * JFACDZZ / 1000 JFACVUS = ΣJFACVZZ
JFEUD	Jet fuel price in the electric power sector (1972 through 1982 only).	Dollars per million Btu	JFEUDZZ is independent. JFEUDUS = JFEUVUS / JFEUBZZ * 1000
JFEUV	Jet fuel expenditures in the electric power sector (1972 through 1982 only).	Million dollars	JFEUVZZ = JFEUBZZ * JFEUDZZ / 1000 JFEUVUS = ΣJFEUVZZ
JFTCD	Jet fuel average price, all sectors.	Dollars per million Btu	JFTCD = JFTCV / JFTCB * 1000
JFTCV	Jet fuel total expenditures.	Million dollars	JFTCVZZ = JFACVZZ + JFEUVZZ JFTCVUS = ΣJFTCVZZ
JFTXD	Jet fuel average price, all end-use sectors.	Dollars per million Btu	JFTXD = JFTXV / JFTXB * 1000
JFTXV	Jet fuel total end-use expenditures.	Million dollars	JFTXVZZ = JFACVZZ JFTXVUS = ΣJFTXVZZ
KSCCD	Kerosene price in the commercial sector.	Dollars per million Btu	KSCCDZZ is independent. KSCCDUS = KSCCVUS / KSCCBUS * 1000
KSCCV	Kerosene expenditures in the commercial sector.	Million dollars	KSCCVZZ = KSCCBZZ * KSCCDZZ / 1000 KSCCVUS = ΣKSCCVZZ
KSICD	Kerosene price in the industrial sector.	Dollars per million Btu	KSICDZZ is independent. KSICDUS = KSICVUS / KSICBUS * 1000

Table A1. Price and expenditure variables (cont.)

MSN	Description	Unit	Formula
KSICV	Kerosene expenditures in the industrial sector.	Million dollars	KSICVZZ = KSICBZZ * KSICDZZ / 1000 KSICVUS = ΣKSICVZZ
KSRCD	Kerosene price in the residential sector.	Dollars per million Btu	KSRCDZZ is independent. KSRCDUS = KSRCVUS / KSRCBUS * 1000
KSRCV	Kerosene expenditures in the residential sector.	Million dollars	KSRCVZZ = KSRCBZZ * KSRCDZZ / 1000 KSRCVUS = ΣKSRCVZZ
KSTCD	Kerosene average price, all sectors.	Dollars per million Btu	KSTCD = KSTCV / KSTCB * 1000
KSTCV	Kerosene total expenditures.	Million dollars	KSTCVZZ = KSCCVZZ + KSICVZZ + KSRCVZZ KSTCVUS = ΣKSTCVZZ
KSTXD	Kerosene average price, all end-use sectors.	Dollars per million Btu	KSTXD = KSTXV / KSTXB * 1000
KSTXV	Kerosene total end-use expenditures.	Million dollars	KSTXVZZ = KSCCVZZ + KSICVZZ + KSRCVZZ KSTXVUS = ΣKSTXVZZ
LDVHN	Total (all fuels) vehicle light-duty stocks.	Thousands of registered vehicles	LDVHNZZ is independent. LDVHNUS is independent.
LUACD	Lubricants price in the transportation sector.	Dollars per million Btu	LUACDZZ is independent. LUACDUS = LUACVUS / LUACBUS * 1000
LUACV	Lubricants expenditures in the transportation sector.	Million dollars	LUACVZZ = LUACBZZ * LUACDZZ / 1000 LUACVUS = ΣLUACVZZ
LUICD	Lubricants price in the industrial sector.	Dollars per million Btu	LUICDZZ is independent. LUICDUS = LUICVUS / LUICBUS * 1000
LUICV	Lubricants expenditures in the industrial sector.	Million dollars	LUICVZZ = LUICBZZ * LUICDZZ / 1000 LUICVUS = ΣLUICVZZ
LUTCD	Lubricants average price, all sectors.	Dollars per million Btu	LUTCD = LUTCV / LUTCB * 1000
LUTCV	Lubricants total expenditures.	Million dollars	LUTCVZZ = LUACVZZ + LUICVZZ LUTCVUS = ΣLUTCVZZ
LUTXD	Lubricants average price, all end-use sectors.	Dollars per million Btu	LUTXD = LUTXV / LUTXB * 1000
LUTXV	Lubricants total end-use expenditures.	Million dollars	LUTXVZZ = LUACVZZ + LUICVZZ LUTXVUS = ΣLUTXVZZ
MGACD	Motor gasoline price in the transportation sector.	Dollars per million Btu	MGACDZZ is independent. MGACDUS = MGACVUS / MGACBUS * 1000
MGACV	Motor gasoline expenditures in the transportation sector.	Million dollars	MGACVZZ = MGACBZZ * MGACDZZ / 1000 MGACVUS = ΣMGACVZZ

Table A1. Price and expenditure variables (cont.)

MSN	Description	Unit	Formula
MGCCD	Motor gasoline price in the commercial sector.	Dollars per million Btu	MGCCDZZ is independent. MGCCDUS = MGCCVUS / MGCCBUS * 1000
MGCCV	Motor gasoline expenditures in the commercial sector.	Million dollars	MGCCVZZ = MGCCBZZ * MGCCDZZ / 1000 MGCCVUS = ΣMGCCVZZ
MGICD	Motor gasoline price in the industrial sector.	Dollars per million Btu	MGICDZZ is independent. MGICDUS = MGICVUS / MGICBUS * 1000
MGICV	Motor gasoline expenditures in the industrial sector.	Million dollars	MGICVZZ = MGICBZZ * MGICDZZ / 1000 MGICVUS = ΣMGICVZZ
MGTCD	Motor gasoline average price, all sectors.	Dollars per million Btu	MGTCD = MGTCV / MGTCB * 1000
MGTCV	Motor gasoline total expenditures.	Million dollars	MGTCVZZ = MGACVZZ + MGCCVZZ + MGICVZZ MGTCVUS = ΣMGTCVZZ
MGTPV	Motor gasoline expenditures per capita.	Million dollars	MGTPV = MGTCV / TPOPP * 1000
MGTXD	Motor gasoline average price, all end-use sectors.	Dollars per million Btu	MGTXD = MGTXV / MGTXB * 1000
MGTXV	Motor gasoline total end-use expenditures.	Million dollars	MGTXVZZ = MGACVZZ + MGCCVZZ + MGICVZZ MGTXVUS = ΣMGTXVZZ
MSICD	Miscellaneous petroleum products price in the industrial sector.	Dollars per million Btu	MSICDZZ is independent. MSICDUS = MSICVUS / MSICBUS * 1000
MSICV	Miscellaneous petroleum products expenditures in the industrial sector.	Million dollars	MSICVZZ = MSICBZZ * MSICDZZ / 1000 MSICVUS = ΣMSICVZZ
NGACD	Natural gas price in the transportation sector.	Dollars per million Btu	NGACDZZ is independent. NGACDUS = NGACVUS / NGASBUS * 1000
NGACV	Natural gas expenditures in the transportation sector.	Million dollars	NGACVZZ = NGASBZZ * NGACDZZ / 1000 NGACVUS = ΣNGACVZZ
NGCCD	Natural gas price in the commercial sector (including supplemental gaseous fuels).	Dollars per million Btu	NGCCDZZ is independent. NGCCDUS = NGCCVUS / NGCCBUS * 1000
NGCCV	Natural gas expenditures in the commercial sector (including supplemental gaseous fuels).	Million dollars	NGCCVZZ = NGCCBZZ * NGCCDZZ / 1000 NGCCVUS = ΣNGCCVZZ
NGEID	Natural gas price in the electric power sector (including supplemental gaseous fuels).	Dollars per million Btu	NGEIDZZ is independent. NGEIDUS = NGEIVUS / NGEIBUS * 1000
NGEIV	Natural gas expenditures in the electric power sector (including supplemental gaseous fuels).	Million dollars	NGEIVZZ = NGEIBZZ * NGEIDZZ / 1000 NGEIVUS = ΣNGEIVZZ

Table A1. Price and expenditure variables (cont.)

MSN	Description	Unit	Formula
NGGBP	Natural gas generating units net summer capacity in all sectors.	Thousand kilowatts	NGGBPZZ is independent. NGGBPUS is independent.
NGICD	Natural gas price in the industrial sector (including supplemental gaseous fuels).	Dollars per million Btu	NGICDZZ is independent. NGICDUS = NGICVZZ / NGISBZZ * 1000
NGICV	Natural gas expenditures in the industrial sector (including supplemental gaseous fuels).	Million dollars	NGICVZZ = NGISBZZ * NGICDZZ / 1000 NGICVUS = ΣNGICVZZ
NGRCD	Natural gas price in the residential sector (including supplemental gaseous fuels).	Dollars per million Btu	NGRCDZZ is independent. NGRCDUS = NGRCVZZ / NGRCBZZ * 1000
NGRCV	Natural gas expenditures in the residential sector (including supplemental gaseous fuels).	Million dollars	NGRCVZZ = NGRCBZZ * NGRCDZZ / 1000 NGRCVUS = ΣNGRCVZZ
NGTCD	Natural gas average price, all sectors (including supplemental gaseous fuels).	Dollars per million Btu	NGTCD = NGTCV / NGSCB * 1000
NGTCV	Natural gas total expenditures (including supplemental gaseous fuels).	Million dollars	NGTCVZZ = NGACVZZ + NGCCVZZ + NGEIVZZ + NGICVZZ + NGRCVZZ NGTCVUS = ΣNGTCVZZ
NGTXD	Natural gas average price, all end-use sectors (including supplemental gaseous fuels).	Dollars per million Btu	NGTXD = (NGTXV / (NGSCB - NGEIB)) * 1000
NGTXV	Natural gas total end-use expenditures (including supplemental gaseous fuels).	Million dollars	NGTXVZZ = NGACVZZ + NGCCVZZ + NGICVZZ + NGRCVZZ NGTXVUS = ΣNGTXVZZ
NTCAS	Natural gas turbine generating units capacity factor.	Percent	NTCASZZ is independent. NTCASUS is independent.
NUCAS	Nuclear generating units capacity factor.	Percent	NUCASZZ is independent. NUCASUS is independent.
NUEGD	Nuclear fuel price in the electric power sector.	Dollars per million Btu	NUEGDZZ is independent. NUEGDUS = NUEGVUS / NUEGBUS * 1000
NUEGV	Nuclear fuel expenditures in the electric power sector.	Million dollars	NUEGVZZ = NUEGBZZ * NUEGDZZ / 1000 NUEGVUS = ΣNUEGVZZ
NUETD	Nuclear fuel average price, all sectors.	Dollars per million Btu	NUETD = NUETV / NUETB * 1000
NUETV	Nuclear fuel total expenditures.	Million dollars	NUETVZZ = NUEGVZZ NUETVUS = ΣNUETVZZ
NUGBP	Nuclear generating units net summer capacity in all sectors.	Thousand kilowatts	NUGBPZZ is independent. NUGBPUS is independent.

Table A1. Price and expenditure variables (cont.)

MSN	Description	Unit	Formula
NYCAS	Natural gas conventional steam generating units capacity factor.	Percent	NYCASZZ is independent. NYCASUS is independent.
OHICD	Other hydrocarbon gas liquids (other than propane) price in the industrial sector.	Dollars per million Btu	OHICDZZ is independent. OHICDUS = OHICVUS / OHICBZZ * 1000
OHICV	Other hydrocarbon gas liquids (other than propane) expenditures in the industrial sector.	Million dollars	OHICVZZ = OHICBZZ * OHICDZZ / 1000 OHICVUS = ΣOHICVZZ
OJGBP	Other gases generating units net summer capacity in all sectors.	Thousand kilowatts	OJGBPZZ is independent. OJGBPUS is independent.
OPICD	Other petroleum products average price in the industrial sector.	Dollars per million Btu	OPICD = OPICV / OPISB * 1000
OPICV	Other petroleum products total expenditures in the industrial sector.	Million dollars	OPICVZZ = FNICVZZ + FOICVZZ + FSICVZZ + MSICVZZ + SNICVZZ + WXICVZZ OPICVUS = ΣOPICVZZ
OPTCD	Other petroleum products average price, all sectors.	Dollars per million Btu	OPTCD = OPTCV / OPSCB * 1000
OPTCV	Other petroleum products total expenditures.	Million dollars	OPTCVZZ = OPICVZZ OPTCVUS = ΣOPTCVZZ
OPTXD	Other petroleum products average price, all end-use sectors.	Dollars per million Btu	OPTXD = OPTXV / OPSCB * 1000
OPTXV	Other petroleum products total end-use expenditures.	Million dollars	OPTXVZZ = OPICVZZ OPTXVUS = ΣOPTXVZZ
OTGBP	Other generating units net summer capacity in all sectors.	Thousand kilowatts	OTGBPZZ is independent. OTGBPUS is independent.
P1ICD	Asphalt and road oil, kerosene, lubricants, petroleum coke, and “other petroleum products” average price in the industrial sector.	Dollars per million Btu	P1ICD = P1ICV / P1ISB * 1000
P1ICV	Asphalt and road oil, kerosene, lubricants, petroleum coke, and “other petroleum products” expenditures in the industrial sector.	Million dollars	P1ICVZZ = ARICVZZ + KSICVZZ + LUICVZZ + OPICVZZ + PCICVZZ P1ICVUS = ΣP1ICVZZ
P1TCD	Asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and “other petroleum products” average price, all sectors.	Dollars per million Btu	P1TCD = P1TCV / P1SCB * 1000

Table A1. Price and expenditure variables (cont.)

MSN	Description	Unit	Formula
P1TCV	Asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and "other petroleum products" total expenditures.	Million dollars	P1TCVZZ = ARTCVZZ + AVTCVZZ + KSTCVZZ + LUTCVZZ + OPTCVZZ + PCTCVZZ P1TCVUS = ΣP1TCVZZ
P1TXD	Asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and "other petroleum products" average price, all end-use sectors.	Dollars per million Btu	P1TXD = (P1TXV / (P1SCB - PCEIB)) * 1000
P1TXV	Asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and "other petroleum products" total end-use expenditures.	Million dollars	P1TXVZZ = P1TCVZZ - PCEIVZZ P1TXVUS = ΣP1TXVZZ
PAACD	All petroleum products average price in the transportation sector.	Dollars per million Btu	PAACD = PAACV / PAASB * 1000
PAACV	All petroleum products total expenditures in the transportation sector.	Million dollars	PAACVZZ = AVACVZZ + DFACVZZ + HLACVZZ + JFACVZZ + LUACVZZ + MGACVZZ + RFACVZZ PAACVUS = ΣPAACVZZ
PACAS	Petroleum generating units capacity factor.	Percent	PACASZZ is independent. PACASUS is independent.
PACCD	All petroleum products average price in the commercial sector.	Dollars per million Btu	PACCD = PACCV / PACCB * 1000
PACCV	All petroleum products total expenditures in the commercial sector.	Million dollars	PACCVZZ = DFCCVZZ + HLCCVZZ + KSCCVZZ + MGCCVZZ + PCCCVZZ + RFCCVZZ PACCVUS = ΣPACCVZZ
PAEID	All petroleum products average price in the electric power sector.	Dollars per million Btu	PAEID = PAEIV / PAEIB * 1000
PAEIV	All petroleum products total expenditures in the electric power sector.	Million dollars	PAEIVZZ = DKEIVZZ + PCEIVZZ + RFEIVZZ PAEIVUS = ΣPAEIVZZ
PAGBP	Petroleum generating units net summer capacity in all sectors.	Thousand kilowatts	PAGBPZZ is independent. PAGBPUS is independent.
PAICD	All petroleum products average price in the industrial sector.	Dollars per million Btu	PAICD = PAICV / PAISB * 1000

Table A1. Price and expenditure variables (cont.)

MSN	Description	Unit	Formula
PAICV	All petroleum products total expenditures in the industrial sector.	Million dollars	PAICVZZ = ARICVZZ + DFICVZZ + HLICVZZ + KSICVZZ + LUICVZZ + MGICVZZ + OPICVZZ + PCICVZZ + RFICVZZ PAICVUS = ΣPAICVZZ
PARCD	All petroleum products average price in the residential sector.	Dollars per million Btu	PARCD = PARCV / PARCB * 1000
PARCV	All petroleum products total expenditures in the residential sector.	Million dollars	PARCVZZ = DFRCVZZ + HLRCVZZ + KSRCVZZ PARCVUS = ΣPARCVZZ
PATCD	All petroleum products average price, all sectors.	Dollars per million Btu	PATCD = PATCV / PASCB * 1000
PATCV	All petroleum products total expenditures.	Million dollars	PATCVZZ = ARTCVZZ + AVTCVZZ + DFTCVZZ + HLTCVZZ + JFTCVZZ + KSTCVZZ + LUTCVZZ + MGTCVZZ + OPTCVZZ + PCTCVZZ + RFTCVZZ PATCVUS = ΣPATCVZZ
PATXD	All petroleum products average price, all end-use sectors.	Dollars per million Btu	PATXD = (PATXV / (PASCB - PAEIB)) * 1000
PATXV	All petroleum products total end-use expenditures.	Million dollars	PATXVZZ = ARTXVZZ + AVTXVZZ + DFTXVZZ + HLTXVZZ + JFTXVZZ + KSTXVZZ + LUTXVZZ + MGTXVZZ + OPTXVZZ + PCTXVZZ + RFTXVZZ PATXVUS = ΣPATXVZZ
PCCCD	Petroleum coke price in the commercial sector.	Dollars per million Btu	PCCCDZZ is independent. PCCCDUS = PCCCVUS / PCCCBUS * 1000
PCCCV	Petroleum coke expenditures in the commercial sector.	Million dollars	PCCCVZZ = PCCCBZZ * PCCCDZZ / 1000 PCCCVUS = ΣPCCCVZZ
PCEID	Petroleum coke price in the electric power sector.	Dollars per million Btu	PCEIDZZ is independent. PCEIDUS = PCEIVUS / PCEIBUS * 1000
PCEIV	Petroleum coke expenditures in the electric power sector.	Million dollars	PCEIVZZ = PCEIBZZ * PCEIDZZ / 1000 PCEIVUS = ΣPCEIVZZ
PCI3D	Price of petroleum coke consumed by the industrial CHP and electricity-only plants.	Dollars per million Btu	PCI3DZZ is independent. PCI3DUS = PCI3VUS / PCI3BUS * 1000
PCI3V	Expenditures of petroleum coke consumed by the industrial CHP and electricity-only plants.	Million dollars	PCI3VZZ = PCI3BZZ * PCI3DZZ / 1000 PCI3VUS = ΣPCI3VZZ
PCICD	Petroleum coke price in the industrial sector.	Dollars per million Btu	PCICD = PCICV / PCISB * 1000

Table A1. Price and expenditure variables (cont.)

MSN	Description	Unit	Formula
PCICV	Petroleum coke expenditures in the industrial sector.	Million dollars	PCICVZZ = PCI3VZZ + PCOCVZZ PCICVUS = ΣPCICVZZ
PCOCD	Petroleum coke price in the industrial sector other than for refinery use and CHP.	Dollars per million Btu	PCOCDZZ is independent. PCOCDUS = PCOCVUS / PCOCBUS * 1000
PCOCV	Petroleum coke expenditures in the industrial sector other than for refinery use and CHP.	Million dollars	PCOCVZZ = PCOCBZZ * PCOCDZZ / 1000 PCOCVUS = ΣPCOCVZZ
PCTCD	Petroleum coke average price, all sectors.	Dollars per million Btu	PCTCD = PCTCV / PCSCB * 1000
PCTCV	Petroleum coke total expenditures.	Million dollars	PCTCVZZ = PCCCVZZ + PCEIVZZ + PCICVZZ PCTCVUS = ΣPCTCVZZ
PCTXD	Petroleum coke average price, all end-use sectors.	Dollars per million Btu	PCTXD = PCTXV / (PCSCB - PCEIB) * 1000
PCTXV	Petroleum coke total end-use expenditures.	Million dollars	PCTXVZZ = PCCCVZZ + PCICVZZ PCTXVUS = ΣPCTXVZZ
PEACD	Primary energy average price in the transportation sector.	Dollars per million Btu	PEACD = PEACV / PEASB * 1000
PEACV	Primary energy total expenditures in the transportation sector.	Million dollars	Before 1993: PEACVZZ = CLACVZZ + EMACVZZ + NGACVZZ + PAACVZZ PEACVUS = ΣPEACVZZ 1993 forward: PEACVZZ = CLACVZZ + NGACVZZ + PAACVZZ PEACVUS = ΣPEACVZZ
PECCD	Primary energy average price in the commercial sector.	Dollars per million Btu	PECCD = PECCV / PECSB * 1000
PECCV	Primary energy total expenditures in the commercial sector.	Million dollars	Before 1993: PECCVZZ = CLCCVZZ + EMCCVZZ + NGCCVZZ + PACCVZZ + WWCCVZZ PECCVUS = ΣPECCVZZ 1993 forward: PECCVZZ = CLCCVZZ + NGCCVZZ + PACCVZZ + WWCCVZZ PECCVUS = ΣPECCVZZ
PEEIB	Primary energy consumed by the electric power sector.	Billion Btu	PEEIBZZ = CLEIBZZ + NGEIBZZ + NUEGBZZ + PAEIBZZ + WWEIBZZ + ELIMBZZ PEEIBUS = ΣPEEIBZZ

Table A1. Price and expenditure variables (cont.)

MSN	Description	Unit	Formula
PEEID	Primary energy average price in the electric power sector.	Dollars per million Btu	PEEID = PEEIV / PEEIB * 1000
PEEIV	Primary energy total expenditures in the electric power sector.	Million dollars	PEEIVZZ = CLEIVZZ + ELIMVZZ + NGEIVZZ + NUEGVZZ + PAEIVZZ + WWEIVZZ PEEIVUS = ΣPEEIVZZ
PEICD	Primary energy average price in the industrial sector.	Dollars per million Btu	PEICD = PEICV / PEISB * 1000
PEICV	Primary energy total expenditures in the industrial sector.	Million dollars	Before 1993: PEICVZZ = CLICVZZ + EMICVZZ + NGICVZZ + PAICVZZ + WWICVZZ PEICVUS = ΣPEICVZZ + CCNIVUS 1993 forward: PEICVZZ = CLICVZZ + NGICVZZ + PAICVZZ + WWICVZZ PEICVUS = ΣPEICVZZ + CCNIVUS
PERCD	Primary energy average price in the residential sector.	Dollars per million Btu	PERCD = PERCV / PERSB * 1000
PERCV	Primary energy total expenditures in the residential sector.	Million dollars	PERCVZZ = CLRCVZZ + NGRCVZZ + PARCVZZ + WDRCVZZ PERCVUS = ΣPERCVZZ
PESSD	Primary energy average price, all end-use sectors.	Dollars per million Btu	PESSD = PESSV / PESSB * 1000
PESSV	Primary energy total end-use expenditures.	Million dollars	PESSVZZ = PEACVZZ + PECCVZZ + PEICVZZ + PERCVZZ PESSVUS = ΣPESSVZZ + CCNIVUS
PETCD	Primary energy average price, all sectors.	Dollars per million Btu	PETCD = PETCV / PESCB * 1000
PETCV	Primary energy total expenditures.	Million dollars	PETCVZZ = PEEIVZZ + PESSVZZ PETCVUS = ΣPETCVZZ + CCNIVUS
PETXD	Primary energy average price, all end-use sectors.	Dollars per million Btu	PETXD = (PETXV / (PESCB - PEEIB)) * 1000
PETXV	Primary energy total end-use expenditures.	Million dollars	PETXVZZ = PEACVZZ + PECCVZZ + PEICVZZ + PERCVZZ PETXVUS = ΣPETXVZZ + CCNIVUS

Table A1. Price and expenditure variables (cont.)

MSN	Description	Unit	Formula
PHVHN	Plug-in hybrid electric vehicle (PHEV) light-duty stocks.	Thousands of registered vehicles	PHVHNZZ is independent. PHVHNUS is independent.
PQACD	Propane price in the transportation sector.	Dollars per million Btu	PQACDZZ is independent. PQACDUS = PQACVUS / PQACBUS * 1000
PQACV	Propane expenditures in the transportation sector.	Million dollars	PQACVZZ = PQACBZZ * PQACDZZ / 1000 PQACVUS = ΣPQACVZZ
PQCCD	Propane price in the commercial sector.	Dollars per million Btu	PQCCDZZ is independent. PQCCDUS = PQCCVUS / PQCCBUS * 1000
PQCCV	Propane expenditures in the commercial sector.	Million dollars	PQCCVZZ = PQCCBZZ * PQCCDZZ / 1000 PQCCVUS = ΣPQCCVZZ
PQICD	Propane price in the industrial sector.	Dollars per million Btu	PQICDZZ is independent. PQICDUS = PQICVUS / PQISBUS * 1000
PQICV	Propane expenditures in the industrial sector.	Million dollars	PQICVZZ = PQISBZZ * PQICDZZ / 1000 PQICVUS = ΣPQICVZZ
PQRCD	Propane price in the residential sector.	Dollars per million Btu	PQRCDZZ is independent. PQRCDUS = PQRCVUS / PQRCBUS * 1000
PQRCV	Propane expenditures in the residential sector.	Million dollars	PQRCVZZ = PQRCBZZ * PQRCDZZ / 1000 PQRCVUS = ΣPQRCVZZ
PQTCD	Propane average price, all sectors.	Dollars per million Btu	PQTCD = PQTCV / PQSCB * 1000
PQTCV	Propane total expenditures.	Million dollars	PQTCVZZ = PQACVZZ + PQCCVZZ + PQICVZZ + PQRCVZZ PQTCVUS = ΣPQTCVZZ
PQTXD	Propane average price, all end-use sectors.	Dollars per million Btu	PQTXD = PQTXV / PQSCB * 1000
PQTXV	Propane total end-use expenditures.	Million dollars	PQTXVZZ = PQACVZZ + PQCCVZZ + PQICVZZ + PQRCVZZ PQTXVUS = ΣPQTXVZZ
REGBP	Renewable energy total generating units net summer capacity in all sectors.	Thousand kilowatts	REGBPZZ is independent. REGBPUS is independent.
RFACD	Residual fuel oil price in the transportation sector.	Dollars per million Btu	RFACDZZ is independent. RFACDUS = RFACVUS / RFACBUS * 1000
RFACV	Residual fuel oil expenditures in the transportation sector.	Million dollars	RFACVZZ = RFACBZZ * RFACDZZ / 1000 RFACVUS = ΣRFACVZZ

Table A1. Price and expenditure variables (cont.)

MSN	Description	Unit	Formula
RFCCD	Residual fuel oil price in the commercial sector.	Dollars per million Btu	RFCCDZZ is independent. RFCCDUS = RFCCVUS / RFCCBUS * 1000
RFCCV	Residual fuel oil expenditures in the commercial sector.	Million dollars	RFCCVZZ = RFCCBZZ * RFCCDZZ / 1000 RFCCVUS = ΣRFCCVZZ
RFEID	Residual fuel oil price in the electric power sector.	Dollars per million Btu	RFEIDZZ is independent. RFEIDUS = RFEIVUS / RFEIBUS * 1000
RFEIV	Residual fuel oil expenditures in the electric power sector.	Million dollars	RFEIVZZ = RFEIBZZ * RFEIDZZ / 1000 RFEIVUS = ΣRFEIVZZ
RFICD	Residual fuel oil price in the industrial sector.	Dollars per million Btu	RFICDZZ is independent. RFICDUS = RFICVUS / RFISBUS * 1000
RFICV	Residual fuel oil expenditures in the industrial sector.	Million dollars	RFICVZZ = RFISBZZ * RFICDZZ / 1000 RFICVUS = ΣRFICVZZ
RFTCD	Residual fuel oil average price, all sectors.	Dollars per million Btu	RFTCD = RFTCV / RFSCB * 1000
RFTCV	Residual fuel oil total expenditures.	Million dollars	RFTCVZZ = RFACVZZ + RFCCVZZ + RFEIVZZ + RFICVZZ RFTCVUS = ΣRFTCVZZ
RFTXD	Residual fuel oil average price, all end-use sectors.	Dollars per million Btu	RFTXD = (RFTXV / (RFSCB - RFEIB)) * 1000
RFTXV	Residual fuel oil total end-use expenditures.	Million dollars	RFTXVZZ = RFACVZZ + RFCCVZZ + RFICVZZ RFTXVUS = ΣRFTXVZZ
SHCAS	Solar thermal generating units capacity factor.	Percent	SHCASZZ is independent. SHCASUS is independent.
SNICD	Special naphthas price in the industrial sector.	Dollars per million Btu	SNICDZZ is independent. SNICDUS = SNICVUS / SNICBUS * 1000
SNICV	Special naphthas expenditures in the industrial sector.	Million dollars	SNICVZZ = SNICBZZ * SNICDZZ / 1000 SNICVUS = ΣSNICVZZ
SOGBP	Solar generating units net summer capacity in all sectors.	Thousand kilowatts	SOGBPZZ is independent. SOGBPUS is independent.
SPCAS	Solar photovoltaic generating units capacity factor.	Percent	SPCASZZ is independent. SPCASUS is independent.
TEACD	Total energy average price in the transportation sector.	Dollars per million Btu	TEACD = TEACV / TNASB * 1000

Table A1. Price and expenditure variables (cont.)

MSN	Description	Unit	Formula
TEACV	Total energy expenditures in the transportation sector.	Million dollars	TEACVZZ = ESACVZZ + PEACVZZ TEACVUS = ΣTEACVZZ
TECCD	Total energy average price in the commercial sector.	Dollars per million Btu	TECCD = TECCV / TNCSB * 1000
TECCV	Total energy expenditures in the commercial sector.	Million dollars	TECCVZZ = ESCCVZZ + PECCVZZ TECCVUS = ΣTECCVZZ
TEGDS	Energy expenditures as percent of current-dollar GDP.	Percent	TEGDS = TETCV / GDPRV * 100
TEICD	Total energy average price in the industrial sector.	Dollars per million Btu	TEICD = TEICV / TNISB * 1000
TEICV	Total energy expenditures in the industrial sector.	Million dollars	TEICVZZ = ESICVZZ + PEICVZZ TEICVUS = ΣTEICVZZ + CCNIVUS
TERCD	Total energy average price in the residential sector.	Dollars per million Btu	TERCD = TERCV / TNRSB * 1000
TERCV	Total energy expenditures in the residential sector.	Million dollars	TERCVZZ = ESRCVZZ + PERCVZZ TERCVUS = ΣTERCVZZ
TETCD	Total energy average price.	Dollars per million Btu	TETCD = TETCV / TNSCB * 1000
TETCV	Total energy expenditures.	Million dollars	TETCV = ESTCV + PESSV
TETPV	Total energy expenditures per capita.	Dollars	TETPV = TETCV / TPOPP * 1000
TETXD	Total end-use energy average price.	Dollars per million Btu	TETXD = TETXV / TNSCB * 1000
TETXV	Total end-use energy expenditures.	Million dollars	TETXV = TEACV + TECCV + TEICV + TERCV
TPOPP	Resident population including Armed Forces.	Thousand population	TPOPPZZ is independent. TPOPPUS is independent.
WDC3DUS	Wood price, commercial CHP and electricity-only plants, U.S. only.	Dollars per million Btu	WDC3DUS = WDC3VUS / WDCYBUS * 1000
WDC3V	Wood expenditures, commercial CHP and electricity-only plants.	Million dollars	WDC3VZZ = WDCYBZZ * WDEIDUS / 1000 WDC3VUS = ΣWDC3VZZ
WDC4D	Wood price, commercial sector other than CHP and electricity-only plants.	Dollars per million Btu	WDC4D is independent.
WDC4V	Wood expenditures, commercial sector other than CHP and electricity-only plants.	Million dollars	WDC4VZZ = WDCVBZZ * WDC4DZZ / 1000 WDC4VUS = ΣWDC4VZZ

Table A1. Price and expenditure variables (cont.)

MSN	Description	Unit	Formula
WDEIDUS	Wood price in the electric power sector, U.S. only.	Dollars per million Btu	WDEIDUS is independent.
WDGBP	Wood generating units net summer capacity in all sectors.	Thousand kilowatts	WDGBPZZ is independent. WDGBPUS is independent.
WDI3DUS	Wood price, industrial CHP and electricity-only plants, U.S. only.	Dollars per million Btu	WDI3DUS = WDI3VUS / WDIYBUS * 1000
WDI3V	Wood expenditures, industrial CHP and electricity-only plants.	Million dollars	WDI3VZZ = WDIYBZZ * WDEIDUS / 1000 WDI3VUS = ΣWDI3VZZ
WDRCD	Wood price in the residential sector.	Dollars per million Btu	WDRCDZZ is independent. WDRCDUS = WDRCVUS / WDRSBUS * 1000
WDRCV	Wood expenditures in the residential sector.	Million dollars	WDRCVZZ = WDRSBZZ * WDRCDZZ / 1000 WDRCVUS = ΣWDRCVZZ
WSC3DUS	Waste price, commercial CHP and electricity-only plants, U.S. only.	Dollars per million Btu	WSC3DUS = WSC3VUS / WSCYBUS * 1000
WSC3V	Waste expenditures, commercial CHP and electricity-only plants.	Million dollars	WSC3VZZ = WSCYBZZ * WSEIDUS /1000 WSC3VUS = ΣWSC3VZZ
WSEIDUS	Waste price in the electric power sector, U.S. only.	Dollars per million Btu	WSEIDUS is independent.
WSGBP	Waste generating units net summer capacity in all sectors.	Thousand kilowatts	WSGBPZZ is independent. WSGBPUS is independent.
WSI3DUS	Waste price, industrial CHP and electricity-only plants, U.S. only.	Dollars per million Btu	WSI3DUS = WSI3VUS / WSIYBUS * 1000
WSI3V	Waste expenditures, industrial CHP and electricity-only plants.	Million dollars	WSI3VZZ = WSIYBZZ * WSEIDUS /1000 WSI3VUS = ΣWSI3VZZ
WWCCD	Wood and waste price in the commercial sector.	Dollars per million Btu	WWCCD = WWCCV / WWCSB * 1000
WWCCV	Wood and waste expenditures in the commercial sector.	Million dollars	WWCCVZZ = WDC3VZZ + WDC4VZZ + WSC3VZZ WWCCVUS = ΣWWCCVZZ
WWEID	Wood and waste price in the electric power sector.	Dollars per million Btu	WWEIDZZ is independent. WWEIDUS = WWEIVUS / WWEIBUS * 1000
WWEIV	Wood and waste expenditures in the electric power sector.	Million dollars	WWEIVZZ = WWEIBZZ * WWEIDZZ / 1000 WWEIVUS = ΣWWEIVZZ

Table A1. Price and expenditure variables (cont.)

MSN	Description	Unit	Formula
WWI4D	Wood and waste prices in the industrial sector other than CHP and electricity-only plants.	Dollars per million Btu	WWI4DZZ is independent. WWI4DUS = WWI4VUS / WWIVBUS
WWI4V	Wood and waste expenditures in the industrial sector other than CHP and electricity-only plants.	Million dollars	WWI4VZZ = WWIVBZZ * WWI4DZZ / 1000 WWI4VUS = ΣWWI4VZZ
WWICD	Wood and waste price in the industrial sector.	Dollars per million Btu	WWICD = WWICV / WWISB * 1000
WWICV	Wood and waste expenditures in the industrial sector.	Million dollars	WWICVZZ = WDI3VZZ + WSI3VZZ + WWI4VZZ WWICVUS = ΣWWICVZZ
WWSSV	Wood and waste total end-use expenditures.	Million dollars	WWSSVZZ = WDRCVZZ + WWCCVZZ + WWICVZZ WWSSVUS = ΣWWSSVZZ
WWTCD	Wood and waste average price, all sectors.	Dollars per million Btu	WWTCD = WWTCV / WWSCB * 1000
WWTCV	Wood and waste total expenditures.	Million dollars	WWTCVZZ = WWEIVZZ + WWSSVZZ WWTCVUS = ΣWWTCVZZ
WWTXD	Wood and waste average price, all end-use sectors.	Dollars per million Btu	WWTXD = WWTXV / WWSSB * 1000
WWTXV	Wood and waste total end-use expenditures.	Million dollars	WWTXVZZ = WDRCVZZ + WWCCVZZ + WWICVZZ WWTXVUS = ΣWWTXVZZ
WXICD	Waxes price in the industrial sector.	Dollars per million Btu	WXICDZZ is independent. WXICDUS = WXICVUS / WXICBUS * 1000
WXICV	Waxes expenditures in the industrial sector.	Million dollars	WXICVZZ = WXICBZZ * WXICDZZ / 1000 WXICVUS = ΣWXICVZZ
WYCAS	Wind generating units capacity factor.	Percent	WYCASZZ is independent. WYCASUS is independent.
WYGBP	Wind generating units net summer capacity in all sectors.	Thousand kilowatts	WYGBPZZ is independent. WYGBPUS is independent.
ZWCDP	Cooling degree days (CDD).	Cooling degree days	ZWCDPZZ is independent. ZWCDPUS is independent.
ZWHDP	Heating degree days (HDD).	Heating degree days	ZWHDPZZ is independent. ZWHDPUS is independent.

Table A2. Consumption adjustment variables

MSN	Description	Unit	Formula
B1AUB	Renewable diesel product supplied portion to the transportation sector.	Billion Btu	SEDS consumption variable
B1SUB	Renewable diesel product supplied.	Billion Btu	SEDS consumption variable
BDAUB	Biodiesel product supplied portion to the transportation sector.	Billion Btu	SEDS consumption variable
BDCUB	Biodiesel product supplied portion to the commercial sector.	Billion Btu	SEDS consumption variable
BDRUB	Biodiesel product supplied portion to the residential sector.	Billion Btu	SEDS consumption variable
BDLCB	Energy losses and co-products from the production of biodiesel.	Billion Btu	SEDS consumption variable
BDSUB	Biodiesel product supplied.	Billion Btu	SEDS consumption variable
BFLCB	Energy losses and co-products from the production of biofuels.	Billion Btu	SEDS consumption variable
BOSUBUS	Other biofuels product supplied for the United States.	Billion Btu	SEDS consumption variable
CLISB	Coal consumed by the industrial sector excluding refinery fuel.	Billion Btu	CLISB = CLKCB + CLOSB
CLOCB	Coal consumed by industrial users other than coke plants.	Billion Btu	SEDS consumption variable
CLOCK	Factor for converting coal consumed by industrial users other than coke plants from physical units to Btu.	Million Btu per short ton	SEDS consumption variable
CLOSB	Coal consumed by the industrial sector other than coke plants excluding refinery fuel.	Billion Btu	CLOSB = CLOCB - CLRFB
CLRFB	Coal consumed as refinery fuel.	Billion Btu	CLRFBZZ = CLRFPZZ * CLOCKZZ CLRFBUS = ΣCLRFBZZ

Table A2. Consumption adjustment variables (cont.)

MSN	Description	Unit	Formula
CLRFP	Coal consumed as refinery fuel.	Thousand short tons	Before 1981: CLRFPZZ is independent for selected states. CLRFPZZ = (CLOCPZZ / CLOCPGZ) * CLRFPGZ for states belonging to a specific state group, GZ. 1981 through 2012: CLRFPZZ = (CLOCPZZ / CLOCPPZ) * CLRFPPZ for states belonging to a specific PADD, PZ. 2013 forward: CLRFPZZ is independent.
CLSCB	Coal total consumption adjusted for process fuel.	Billion Btu	CLSCB = CLACB + CLCCB + CLEIB + CLISB + CLRCB
CLXCB	Coal consumed by all sectors excluding coke plants and refineries.	Billion Btu	CLXCB = CLACB + CLCCB + CLEIB + CLOSB + CLRCB
DFASB	Distillate fuel oil consumed by the transportation sector including biofuels product supplied.	Billion Btu	Before 2021: DFASBZZ = DFACBZZ DFASBUS = ΣDFASBZZ 2021 forward: DFASBZZ = DFACBZZ + BDAUBZZ + B1AUBZZ DFASBUS = ΣDFASBZZ
DFCSB	Distillate fuel oil consumed by the commercial sector including biofuels product supplied.	Billion Btu	Before 2021: DFCSBZZ = DFCCBZZ DFCSBUS = ΣDFCSBZZ 2021 forward: DFCSBZZ = DFCCBZZ + BDCUBZZ DFCSBUS = ΣDFCSBZZ
DFISB	Distillate fuel oil consumed by the industrial sector excluding refinery fuel.	Billion Btu	DFISB = DFICB - DFRFB
DFRFB	Distillate fuel oil consumed as refinery fuel.	Billion Btu	DFRFBZZ = DFRFPZZ * DFTCKUS DFRFBUS = ΣDFRFBZZ

Table A2. Consumption adjustment variables (cont.)

MSN	Description	Unit	Formula
DFRFP	Distillate fuel oil consumed as refinery fuel.	Thousand barrels	Before 1981: DFRFPZZ is independent for selected states. DFRFPZZ = (DFICPZZ / DFICPGZ) * DFRFPGZ for states belonging to a specific state group, GZ. 1981 through 2012: DFRFPZZ = (DFICPZZ / DFICPPZ) * DFRFPPZ for states belonging to a specific PADD, PZ. 2013 forward: DFRFPZZ is independent.
DFRSB	Distillate fuel oil consumed by the residential sector including biofuels product supplied.	Billion Btu	Before 2021: DFRSBZZ = DFRCBZZ DFRSBUS = ΣDFRSBZZ 2021 forward: DFRSBZZ = DFRCBZZ + BDRUBZZ DFRSBUS = ΣDFRSBZZ
DFSCB	Distillate fuel oil total consumption adjusted for process fuel.	Billion Btu	DFSCBZZ = DFASBZZ + DFCSBZZ + DFEIBZZ + DFISBZZ + DFRSBZZ DFSCBUS = ΣDFSCBZZ
EMLCB	Energy losses and co-products from the production of fuel ethanol.	Billion Btu	SEDS consumption variable
ESISB	Electricity consumed by the industrial sector excluding refinery use.	Billion Btu	ESISB = ESICB - ESRFB
ESRFB	Electricity consumed by refineries.	Billion Btu	ESRFBZZ = ESRFPZZ * 3.412 ESRFBUS = ΣESRFBZZ
ESRFP	Electricity consumed by refineries.	Million kilowatthours	Before 1981: ESRFPZZ is independent for selected states. ESRFPZZ = (ESICPZZ / ESICPGZ) * ESRFPGZ for states belonging to a specific state group, GZ. 1981 through 2012: ESRFPZZ = (ESICPZZ / ESICPPZ) * ESRFPPZ for states belonging to a specific PADD, PZ. 2013 forward: ESRFPZZ is independent.
ESSCB	Electricity total consumption adjusted for process fuel.	Billion Btu	ESSCB = ESACB + ESCCB + ESISB + ESRCB

Table A2. Consumption adjustment variables (cont.)

MSN	Description	Unit	Formula
HLISB	Hydrocarbon gas liquids consumed by the industrial sector adjusted for processed fuel.	Billion Btu	HLISB = HLICB - HLRFB
HLRFB	Hydrocarbon gas liquids consumed as refinery fuel and intermediate products.	Billion Btu	Before 2010: HLRFBZZ is independent. HLRFBUS = ΣHLRFBZZ 2010 forward: HLRFBZZ = PQRFBZZ HLRFBUS = ΣHLRFBZZ
HLRFP	Hydrocarbon gas liquids consumed as refinery fuel and intermediate products.	Thousand barrels	Before 2010: HLRFPZZ is independent. 2010 forward: HLRFPZZ = PQRFPZZ
HLSCB	Hydrocarbon gas liquids total consumption adjusted for processed fuel.	Billion Btu	HLSCB = HLACB + HLCCB + HLISB + HLRCB
NGASB	Natural gas consumed by the transportation sector adjusted for process fuel.	Billion Btu	NGASB = NGACB - NGPZB
NGISB	Natural gas consumed by the industrial sector excluding refinery fuel and lease and plant fuels (including supplemental gaseous fuels).	Billion Btu	NGISB = NGICB - NGRFB - NGLPB
NGLPB	Natural gas consumed as lease and plant fuel.	Billion Btu	SEDS consumption variable
NGPZB	Natural gas for pipeline and distribution use.	Billion Btu	SEDS consumption variable
NGRFB	Natural gas consumed as refinery fuel (including supplemental gaseous fuels).	Billion Btu	NGRFBZZ = NGRFPZZ * NGTXKZZ NGRFBUS = ΣNGRFBZZ
NGRFP	Natural gas consumed as refinery fuel (including supplemental gaseous fuels).	Million cubic feet	Before 1981: NGRFPZZ is independent for selected states. NGRFPZZ = (NGICPZZ / NGICPGZ) * NGRFPGZ for states belonging to a specific state group, GZ. 1981 through 2012: NGRFPZZ = (NGICPZZ / NGICPPZ) * NGRFPPZ for states belonging to a specific PADD, PZ. 2013 forward: NGRFPZZ is independent.
NGSCB	Natural gas total consumption adjusted for process fuel.	Billion Btu	NGSCB = NGASB + NGCCB + NGEIB + NGISB + NGRCB

Table A2. Consumption adjustment variables (cont.)

MSN	Description	Unit	Formula
NGTXK	Factor for converting natural gas used by end-use sectors from physical units to Btu.	Thousand Btu per cubic foot	SEDS consumption variable
OHICB	Other hydrocarbon gas liquids (other than propane) consumed by the industrial sector.	Billion Btu	OHICB = HLICB - PQICB
OPISB	Other petroleum products consumed by the industrial sector excluding refinery fuel and intermediate products.	Billion Btu	OPISB = FNICB + FOICB + FSICB + MSICB + SNICB + WXICB
OPSCB	Other petroleum products total consumption adjusted for refinery fuel and intermediate products.	Billion Btu	OPSCB = OPISB
P1ISB	Asphalt and road oil, kerosene, lubricants, petroleum coke, and other petroleum products consumed by the industrial sector excluding refinery fuel and intermediate products.	Billion Btu	P1ISB = ARICB + KSICB + LUICB + OPISB + PCISB
P1SCB	Asphalt and road oil, kerosene, lubricants, petroleum coke, and other petroleum products total consumption adjusted for process fuel and intermediate products.	Billion Btu	P1SCB = ARTCB + AVTCB + KSTCB + LUTCB + OPSCB + PCSCB
P5RFB	Other petroleum products consumed as refinery fuel and intermediate products.	Billion Btu	P5RFBZZ = ABICBZZ + MBICBZZ + SGICBZZ + UOICBZZ P5RFBUS = ABICBUS + BOSUBUS + MBICBUS + SGICBUS + UOICBUS
PAASB	All petroleum products consumed by the transportation sector excluding other biofuels product supplied for the United States.	Billion Btu	PAASBZZ = PAACBZZ PAASBUS = PAACBUS - BOSUBUS
PAISB	All petroleum products consumed by the industrial sector excluding process fuel and intermediate products.	Billion Btu	PAISB = ARICB + DFISB + HLISB + KSICB + LUICB + MGICB + OPISB + PCISB + RFISB
PASCB	All petroleum products total consumption adjusted for process fuel and intermediate products.	Billion Btu	PASCB = ARTCB + AVTCB + DFSCB + HLSCB + JFTCB + KSTCB + LUTCB + MGTCB + OPSCB + PCSCB + RFSCB
PCISB	Petroleum coke consumed by the industrial sector excluding refinery fuel.	Billion Btu	PCISB = PCICB - PCRFB
PCRFB	Petroleum coke consumed as refinery fuel.	Billion Btu	SEDS consumption variable

Table A2. Consumption adjustment variables (cont.)

MSN	Description	Unit	Formula
PCSCB	Petroleum coke total consumption adjusted for process fuel.	Billion Btu	PCSCB = PCCCB + PCEIB + PCISB
PEASB	Primary energy consumed by the transportation sector, adjusted for process fuel, intermediate products, and fuels with no direct cost.	Billion Btu	Before 1993: PEASB = CLACB + EMACB + NGASB + PAACB 1993 forward: PEASB = CLACB + NGASB + PAASB
PECSB	Primary energy consumed by the commercial sector, adjusted for process fuel, intermediate products, and fuels with no direct cost.	Billion Btu	Before 1993: PECSB = CLCCB + EMCCB + NGCCB + PACCB+ WWCSB 1993 forward: PECSB = CLCCB + NGCCB + PACCB + WWCSB
PEISB	Primary energy consumed by the industrial sector, adjusted for process fuel, intermediate products, and fuels with no direct cost.	Billion Btu	Before 1993: PEISBZZ = CLISBZZ + EMICBZZ + NGISBZZ + PAISBZZ+ WWISBZZ PEISBUS = ΣPEISBZZ + CCNIBUS 1993 forward: PEISBZZ = CLISBZZ + NGISBZZ + PAISBZZ + WWISBZZ PEISBUS = ΣPEISBZZ + CCNIBUS
PERSB	Primary energy consumed by the residential sector, adjusted for process fuel, intermediate products, and fuels with no direct cost.	Billion Btu	PERSB = CLRCB + NGRCB + PARCB + WDRSB
PESCB	Primary energy total consumption, adjusted for process fuel, intermediate products, and fuels with no direct cost.	Billion Btu	PESCB = PEEIB + PESSB
PESSB	Primary energy total end-use consumption, adjusted for process fuel, intermediate products, and fuels with no direct cost.	Billion Btu	PESSB = PEASB + PECSB + PEISB + PERSB
PQISB	Propane consumed by the industrial sector excluding refinery fuel.	Billion Btu	PQISB = PQICB - PQRFB
PQRFB	Propane consumed as refinery fuel.	Billion Btu	PQRFBZZ = PQRFPZZ * 3.841 PQRFBUS = ΣPQRFBZZ
PQRFP	Propane consumed as refinery fuel.	Thousand barrels	PQRFPZZ is independent.
PQSCB	Propane total consumption adjusted for process fuel.	Billion Btu	PQSCB = PQTCB - PQRFB

Table A2. Consumption adjustment variables (cont.)

MSN	Description	Unit	Formula
RFISB	Residual fuel oil consumed by the industrial sector excluding refinery fuel.	Billion Btu	RFISB = RFICB - RFRFB
RFRFB	Residual fuel oil consumed as refinery fuel.	Billion Btu	RFRFBZZ = RFRFPZZ * 6.287 RFRFBUS = ΣRFRFBZZ
RFRFP	Residual fuel oil consumed as refinery fuel.	Thousand barrels	Before 1981: RFRFPZZ is independent for selected states. RFRFPZZ = (RFICPZZ / RFICPGZ) * RFRFPGZ for states belonging to a specific state group, GZ. 1981 through 2012: RFRFPZZ = (RFICPZZ / RFICPPZ) * RFRFPPZ for states belonging to a specific PADD, PZ. 2013 forward: RFRFPZZ is independent.
RFSCB	Residential fuel oil total consumption excluding process fuel.	Billion Btu	RFSCB = RFACB + RFCCB + RFEIB + RFISB
SFINB	Supplemental gaseous fuels consumed by the industrial sector.	Billion Btu	SEDS consumption variable
TEPFB	Total energy used as process fuel and other consumption that has no direct fuel costs.	Billion Btu	TEPFBZZ = BDLCBZZ + COICBZZ + EMLCBZZ + GECCBZZ + GEICBZZ + GERCBZZ + HYCCBZZ + HYICBZZ + LOTCBZZ + NGLPBZZ + NGPZBZZ + SOCCBZZ + SOICBZZ + SORCBZZ + TERFBZZ + WDRXBZZ + WWCXBZZ + WWIXBZZ + WYCCBZZ + WYICBZZ TEPFBUS = BDLCBUS + COICBUS + EMLCBUS + GECCBUS + GEICBUS + GERCBUS + HYCCBUS + HYICBUS + LOTCBUS + NGLPBUS + NGPZBUS + SOCCBUS + SOICBUS + SORCBUS + TERFBUS + WDRXBUS + WWCXBUS + WWIXBUS + WYCCBUS + WYICBUS
TERFB	Total energy used as refinery fuel and intermediate products.	Billion Btu	TERFB = CLRFB + DFRFB + ESRFB + HLRFB + NGRFB + P5RFB + PCRFB + RFRFB
TNASB	Total end-use energy consumed by the transportation sector, adjusted for process fuel, intermediate products, and fuels with no direct cost.	Billion Btu	TNASB = ESACB + PEASB

Table A2. Consumption adjustment variables (cont.)

MSN	Description	Unit	Formula
TNCSB	Total end-use energy consumed by the commercial sector, adjusted for process fuel, intermediate products, and fuels with no direct cost.	Billion Btu	TNCSB = ESCCB + PECSB
TNISB	Total end-use energy consumed by the industrial sector, adjusted for process fuel, intermediate products, and fuels with no direct cost.	Billion Btu	TNISB = ESISB + PEISB
TNRSB	Total end-use energy consumed by the residential sector, adjusted for process fuel, intermediate products, and fuels with no direct cost.	Billion Btu	TNRSB = ESRCB + PERSB
TNSCB	Total end-use energy consumption, adjusted for process fuel, intermediate products, and fuels with no direct cost.	Billion Btu	TNSCB = ESSCB + PESSB
WDCUB	Wood consumed by the commercial sector other than CHP and electricity-only plants, at no cost.	Billion Btu	WDCUB = WDC4B - WDCVB
WDCVB	Wood consumed by the commercial sector other than CHP and electricity-only plants, costed.	Billion Btu	WDCVBZZ = WDC4BZZ * WDPHSZZ WDCVBUS = ΣWDCVBZZ
WDCYB	Wood consumed by commercial CHP and electricity-only plants, costed.	Billion Btu	WDCYBZZ = WDC3BZZ * WDEISUS WDCYBUS = ΣWDCYBZZ
WDCZB	Wood consumed by commercial CHP and electricity-only plants, at no cost.	Billion Btu	WDCZB = WDC3B - WDCYB
WDEISUS	Purchased wood as a percentage of all wood consumed by the electric power sector, U.S. only.	Percent	WDEISUS is independent.
WDIYB	Wood consumed by industrial CHP and electricity-only plants, costed.	Billion Btu	WDIYBZZ = WDI3BZZ * WDEISUS WDIYBUS = ΣWDIYBZZ
WDIZB	Wood consumed by industrial CHP and electricity-only plants, at no cost.	Billion Btu	WDIZB = WDI3B - WDIYB
WDPHS	Purchased wood as a percentage of all wood consumed by the residential sector.	Percent	WDPHS is independent.

Table A2. Consumption adjustment variables (cont.)

MSN	Description	Unit	Formula
WDRSB	Wood consumed by the residential sector, costed.	Billion Btu	WDRSBZZ = WDRCBZZ * WDPHSZZ WDRSBUS = ΣWDRSBZZ
WDRXB	Wood consumed by the residential sector, at no cost.	Billion Btu	WDRXB = WDRCB - WDRSB
WSCYB	Waste consumed by commercial CHP and electricity-only plants, costed.	Billion Btu	WSCYBZZ = WSC3BZZ * WSEISUS WSCYBUS = ΣWSCYBZZ
WSCZB	Waste consumed by commercial CHP and electricity-only plants, at no cost.	Billion Btu	WSCZB = WSC3B - WSCYB
WSEISUS	Purchased waste as a percentage of all waste consumed by the electric power sector, U.S. only.	Percent	WSEISUS is independent.
WSIYB	Waste consumed by industrial CHP and electricity-only plants, costed.	Billion Btu	WSIYBZZ = WSI3BZZ * WSEISUS WSIYBUS = ΣWSIYBZZ
WSIZB	Waste consumed by industrial CHP and electricity-only plants, at no cost.	Billion Btu	WSIZB = WSI3B - WSIYB
WWCSB	Wood and waste consumed by the commercial sector, costed.	Billion Btu	WWCSB = WDCVB + WDCYB + WSCYB
WWCXB	Wood and waste consumed by the commercial sector, at no cost.	Billion Btu	WWCXB = WDCUB + WDCZB + WSCZB
WWISB	Wood and waste consumed by the industrial sector, costed.	Billion Btu	WWISB = WDIYB + WSIYB + WWIVB
WWIUB	Wood and waste consumed by the industrial sector other than CHP and electricity-only plants, at no cost.	Billion Btu	WWIUB = WWI4B - WWIVB
WWIVB	Wood and waste consumed by the industrial sector other than CHP and electricity-only plants, costed.	Billion Btu	WWIVB is independent.
WWIXB	Wood and waste consumed by the industrial sector, at no cost.	Billion Btu	WWIXB = WDIZB + WSIZB + WWIUB
WWSCB	Wood and waste total consumption, adjusted for fuels with no direct cost.	Billion Btu	WWSCB = WWSSB + WWEIB
WWSSB	Wood and waste consumed by the end-use sectors, costed.	Billion Btu	WWSSB = WDRSB + WWCSB + WWISB

Appendix B. Metric and other physical conversion factors

Data presented in the State Energy Data System (SEDS) are expressed predominately in units that historically have been used in the United States, such as British thermal units, barrels, cubic feet, and short tons.

The metric conversion factors presented in Table B1 can be used to calculate the metric-unit equivalents of values expressed in U.S. customary units. For example, 500 short tons are the equivalent of 453.6 metric tons (500 short tons x 0.9071847 metric tons/short ton = 453.6 metric tons).

In the metric system of weights and measures, the names of multiples and subdivisions of any unit may be derived by combining the name of the unit with prefixes, such as deka, hecto, and kilo, meaning, respectively, 10, 100, 1,000, and deci, centi, and milli, meaning, respectively, one-tenth, one-hundredth, and one-thousandth. Common metric prefixes can be found in Table B2.

The conversion factors presented in Table B3 can be used to calculate equivalents in various physical units commonly used in energy analyses. For example, 10 barrels are the equivalent of 420 U.S. gallons (10 barrels x 42 gallons/barrel = 420 gallons).

Table B1. Metric conversion factors

U.S. unit	*multiplied by*	Conversion factor	*equals*	Metric unit	U.S. unit	*multiplied by*	Conversion factor	*equals*	Metric unit
Mass					**Volume**				
short tons (2,000 lb)	x	0.9071847	=	metric tons (t)	barrels of oil (b)	x	0.1589873	=	cubic meters (m^3)
long tons	x	1.016047	=	metric tons (t)	cubic yards (yd^3)	x	0.764555	=	cubic meters (m^3)
pounds (lb)	x	0.45359237[a]	=	kilograms (kg)	cubic feet (ft^3)	x	0.02831685	=	cubic meters (m^3)
pounds uranium oxide (lb U_3O_8)	x	0.384647[b]	=	kilograms uranium (kgU)	U.S. gallons (gal)	x	3.785412	=	liters (L)
ounces, avoirdupois (avdp oz)	x	28.34952	=	grams (g)	ounces, fluid (fl oz)	x	29.57353	=	milliliters (mL)
					cubic inches (in^3)	x	16.38706	=	milliliters (mL)
Length					**Area**				
miles (mi)	x	1.609344[a]	=	kilometers (km)	acres	x	0.40469	=	hectares (ha)
yards (yd)	x	0.9144[a]	=	meters (m)	square miles (mi^2)	x	2.589988	=	square kilometers (km^2)
feet (ft)	x	0.3048[a]	=	meters (m)	square yards (yd^2)	x	0.8361274	=	square meters (m^2)
inches (in)	x	2.54[a]	=	centimeters (cm)	square feet (ft^2)	x	0.09290304[a]	=	square meters (m^2)
					square inches (in^2)	x	6.4516[a]	=	square centimeters (cm^2)
Energy					**Temperature**				
British thermal units (Btu)	x	1,055.05585262[a,c]	=	joules (J)	degrees Fahrenheit (˚F)	x	5/9 (after subtracting 32)[a,d]	=	degrees Celsius (˚C)
calories (cal)	x	4.1868[a]	=	joules (J)					
kilowatthours (kWh)	x	3.6[a]	=	megajoules (MJ)					

[a]Exact conversion.

[b]Calculated by the U.S. Energy Information Administration.

[c]The Btu used in this table is the International Table Btu adopted by the Fifth International Conference on Properties of Steam, London, 1956.

[d]To convert degrees Celsius (°C) to degrees Fahrenheit (°F) exactly, multiply by 9/5, then add 32.

Note: Most metric units shown belong to the International System of Units (SI), and the liter, hectare, and metric ton are accepted for use with the SI units.

Data sources: General Services Administration, Federal Standard 376B, *Preferred Metric Units for General Use by the Federal Government* (Washington, DC, January 27, 1993), pp. 9–11, 13, and 16. National Institute of Standards and Technology, Special Publications 330, 811, and 814. American National Standards Institute/Institute of Electrical and Electronic Engineers, ANSI/IEEE Std 268–1992, pp. 28 and 29.

Table B2. Metric prefixes

Unit multiple	Prefix	Symbol	Unit subdivision	Prefix	Symbol
10^{1}	deka	da	10^{-1}	deci	d
10^{2}	hecto	h	10^{-2}	centi	c
10^{3}	kilo	k	10^{-3}	milli	m
10^{6}	mega	M	10^{-6}	micro	µ
10^{9}	giga	G	10^{-9}	nano	n
10^{12}	tera	T	10^{-12}	pico	p
10^{15}	peta	P	10^{-15}	femto	f
10^{18}	exa	E	10^{-18}	atto	a
10^{21}	zetta	Z	10^{-21}	zepto	z
10^{24}	yotta	Y	10^{-24}	yocto	y

Data source: U.S. Department of Commerce, National Institute of Standards and Technology, *The International System of Units (SI),* NIST Special Publication 330, 1991 Edition (Washington, DC, August 1991), p. 10.

Table B3. Other physical conversion factors

Energy source	Original unit		Conversion factor		Final unit
Petroleum	barrels (b)	x	42[a]	=	U.S. gallons (gal)
Coal	short tons	x	2,000[a]	=	pounds (lb)
	long tons	x	2,240[a]	=	pounds (lb)
	metric tons (t)	x	1,000[a]	=	kilograms (kg)
Wood	cords (cd)	x	1.25[b]	=	short tons
	cords (cd)	x	128[a]	=	cubic feet (ft^3)

[a]Exact conversion.

[b]Calculated by the U.S. Energy Information Administration.

Data source: U.S. Department of Commerce, National Institute of Standards and Technology, *Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices*, NIST Handbook 44, 1994 Edition (Washington, DC, October 1993), pp. B-10, C-17, and C-21.

Appendix C. Data and methodology changes

Tables and data files in the State Energy Data System (SEDS) supply a new year of data each production cycle. The latest data may be preliminary and, therefore, revised the following cycle. Changes made to consumption and price source data for historical years are also regularly incorporated into SEDS.

Listed below are changes in SEDS contents beyond the standard updates.

Natural gas

For 2013 forward, SEDS revises its estimates for natural gas vehicle fuel (transportation sector) prices using historical EIA natural gas vehicle fuel prices from the EIA-176 survey and compressed natural gas (CNG) price data from the U.S. Department of Energy's Alternative Fuels Data Center (AFDC) quarterly *Clean Cities and Communities Alternative Fuel Price Reports*. See the SEDS technical notes for more information.

Petroleum

Distillate fuel oil

For 2009 forward, SEDS revises its estimates for distillate fuel oil consumption, prices, and expenditures for all sectors because of updated biofuels blending and product supplied accounting. For 2009 through 2011, state data are available in SEDS for "adjusted" biodiesel consumption blended with distillate fuel oil in the transportation sector using U.S.-level estimates from EIA's *Monthly Energy Review* (MER) allocated proportionally to SEDS state-level biodiesel consumption estimates. For 2012 forward, state data are available in SEDS for refinery and blender net inputs of biodiesel and renewable diesel by sector using data from EIA's *Petroleum Supply Annual* (PSA) allocated proportionally to SEDS state-level biodiesel and renewable diesel consumption estimates by sector. For 2021 forward, new and revised state data are available in SEDS for biodiesel and renewable diesel product supplied by sector using data from EIA's PSA allocated proportionally to SEDS state-level biodiesel and renewable diesel consumption estimates by sector. See the SEDS technical notes sections for distillate fuel oil, additional calculations, and adjusted consumption for expenditure calculations for more information.

Glossary

Asphalt: A dark brown-to-black cement-like material obtained by petroleum processing and containing bitumens as the predominant component; used primarily for road construction. It includes crude asphalt as well as the following finished products: cements, fluxes, the asphalt content of emulsions (exclusive of water), and petroleum distillates blended with asphalt to make cutback asphalts. *Note:* The conversion factor for asphalt is 5.5 barrels per short ton.

ASTM: American Society for Testing and Materials

Aviation gasoline (finished): A complex mixture of relatively volatile hydrocarbons with or without small quantities of additives, blended to form a fuel suitable for use in aviation reciprocating engines. Fuel specifications are provided in ASTM Specification D 910 and Military Specification MIL-G-5572. *Note:* Data on blending components are not counted in data on finished aviation gasoline.

Aviation gasoline blending components: Naphthas that will be used for blending or compounding into finished aviation gasoline (e.g., straight run gasoline, alkylate, reformate, benzene, toluene, and xylene). Excludes oxygenates (alcohols, ethers), butane, and pentanes plus. Oxygenates are reported as other hydrocarbons, hydrogen, and oxygenates.

Barrel (petroleum): A unit of volume equal to 42 U.S. gallons.

Barrels per calendar day: The amount of input that a distillation facility can process under usual operating conditions. The amount is expressed in terms of capacity during a 24-hour period and reduces the maximum processing capability of all units at the facility under continuous operation (see **Barrels per stream day**) to account for the following limitations that may delay, interrupt, or slow down production: 1. the capability of downstream processing units to absorb the output of crude oil processing facilities of a given refinery. No reduction is necessary for intermediate streams that are distributed to other than downstream facilities as part of a refinery's normal operation; 2. the types and grades of inputs to be processed; 3. the types and grades of products expected to be manufactured; 4. the environmental constraints associated with refinery operations; 5. the reduction of capacity for scheduled downtime due to such conditions as routine inspection, maintenance, repairs, and turnaround; and 6. the reduction of capacity for unscheduled downtime due to such conditions as mechanical problems, repairs, and slowdowns.

Barrels per stream day: The maximum number of barrels of input that a distillation facility can process within a 24-hour period when running at full capacity under optimal crude and product slate conditions with no allowance for downtime.

Battery electric vehicle (BEV): An all-electric vehicle that receives power by plugging into an electric power source and storing the power in a battery pack. BEVs do not use any petroleum-based or other liquid- or gas-based fuel during operation and do not produce tailpipe emissions.

Biodiesel (B100): Renewable fuel consisting of mono alkyl esters (long chain fatty acids) that are produced through the conversion of animal fats, vegetable oils, and recycled grease feedstocks (transesterification) to produce biodiesel. Biodiesel is typically blended with petroleum diesel in concentrations of 2% to 20% biodiesel, or B2 to B20.

Biofuels: Liquid fuels and blending components produced from biomass feedstocks, used primarily for transportation.

Biomass: Organic non-fossil material of biological origin constituting a re-newable energy source.

Biomass waste: Organic non-fossil material of biological origin that is a byproduct or a discarded product. Biomass waste includes municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural crop byproducts, straw, and other biomass solids, liquids, and gases; but excludes wood and wood-derived fuels (including black liquor), biofuels feedstock, biodiesel, and fuel ethanol. *Note:* EIA biomass waste data also include energy crops grown specifically for energy production, which would not normally constitute waste.

Black liquor: A byproduct of the paper production process, alkaline spent liquor, that can be used as a source of energy. Alkaline spent liquor is removed from the digesters in the process of chemically pulping wood. After evaporation, the residual "black" liquor is burned as a fuel in a recovery furnace that permits the recovery of certain basic chemicals.

British thermal unit (Btu): The quantity of heat required to raise the temperature of 1 pound of liquid water by 1 degree Fahrenheit at the temperature at which water has its greatest density (approximately 39

degrees Fahrenheit).

Bunker fuels: Fuel supplied to ships and aircraft, both domestic and foreign, consisting primarily of residual and distillate fuel oil for ships and kerosene-based jet fuel for aircraft. The term "international bunker fuels" is used to denote the consumption of fuel for international transport activities. *Note*: For the purposes of greenhouse gas emissions inventories, data on emissions from combustion of international bunker fuels are subtracted from national emissions totals. Historically, bunker fuels have meant only ship fuel.

Butane (C_4H_{10}): A straight-chain or branch-chain hydrocarbon extracted from natural gas or refinery gas streams, which is gaseous at standard temperature and pressure. It includes isobutane and normal butane and is designated in ASTM Specification D1835 and Gas Processors Association specifications for commercial butane.

Butylene (C_4H_8): An olefinic hydrocarbon recovered from refinery or petrochemical processes, which is gaseous at standard temperature and pressure. Butylene is used in the production of gasoline and various petrochemical products.

Carbon dioxide (CO2): A colorless, odorless, non-poisonous gas that is a normal part of Earth's atmosphere. Carbon dioxide is a product of fossil-fuel combustion as well as other processes. It is considered a greenhouse gas as it traps heat (infrared energy) radiated by the Earth into the atmosphere and thereby contributes to the potential for global warming. The global warming potential (GWP) of other greenhouse gases is measured in relation to that of carbon dioxide, which by international scientific convention is assigned a value of one (1).

Catalytic cracking: The refining process of breaking down the larger, heavier, and more complex hydrocarbon molecules into simpler and lighter molecules. Catalytic cracking is accomplished by the use of a catalytic agent and is an effective process for increasing the yield of gasoline from crude oil. Catalytic cracking processes fresh feeds and recycled feeds.

Chained dollar gross domestic product: A measure of gross domestic product using real prices. See **chained dollars** and **gross domestic product (GDP)**.

Chained dollars: A measure used to express real prices. Real prices are those that have been adjusted to remove the effect of changes in the purchasing power of the dollar; they usually reflect buying power relative to a reference year. Before 1996, real prices were expressed in constant dollars, a measure based on the weights of goods and services in a single year, usually a recent year. In 1996, the U.S. Department of Commerce introduced the chained-dollar measure. The new measure is based on the average weights of goods and services in successive pairs of years. It is "chained" because the second year in each pair, with its weights, becomes the first year of the next pair. The advantage of using the chained-dollar measure is that it is more closely related to any given period covered and is therefore subject to less distortion over time.

Coal: A readily combustible black or brownish-black rock whose composition, including inherent moisture, consists of more than 50% by weight and more than 70% by volume of carbonaceous material. It is formed from plant remains that have been compacted, hardened, chemically altered, and metamorphosed by heat and pressure over geologic time. Coals are classified according to their degree of progressive alteration from lignite to anthracite. In the U.S. classification, the ranks of coal include lignite, subbituminous coal, bituminous coal, and anthracite and are based on fixed carbon, volatile matter, heating value, and agglomerating (or caking) properties.

Coking coal: Bituminous coal suitable for making coke.

Steam coal: In this report, steam coal represents all noncoking coal.

Coal coke: A solid carbonaceous residue derived from low-ash, low-sulfur bituminous coal from which the volatile constituents are driven off by baking in an oven at temperatures as high as 2,000 degrees Fahrenheit so that the fixed carbon and residual ash are fused together. Coke is used as a fuel and as a reducing agent in smelting iron ore in a blast furnace. Coke from coal is gray, hard, and porous and has a heating value of 24.8 million Btu per ton.

Coke plants: Plants where coal is carbonized for the manufacture of coke in slot or beehive ovens.

Combined-heat-and-power (CHP) plant: A plant designed to produce both heat and electricity. If one or more units of the plant is a CHP unit, then the whole plant is designated as a CHP plant. *Note:* This term is being used in place of the term "cogenerator" that was used by EIA in the past. CHP better describes the facilities because some of the plants included do not produce heat and power in a sequential fashion and, as a result, do not meet the legal definition of cogeneration specified in the Public Utility Regulatory Polices Act (PURPA).

Commercial sector: An energy-consuming sector that consists of service-providing facilities and equipment of: businesses; federal, state,

and local governments; and other private and public organizations, such as religious, social, or fraternal groups. The commercial sector includes institutional living quarters. It also includes sewage treatment facilities. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a wide variety of other equipment. *Note:* This sector includes generators that produce electricity and/or useful thermal output primarily to support the activities of the above-mentioned commercial establishments.

Conversion factor: A factor for converting data between one unit of measurement and another (such as between short tons and British thermal units, or between barrels and gallons). (See https://www.eia.gov/totalenergy/data/monthly/pdf/mer_a.pdf and https://www.eia.gov/totalenergy/data/monthly/pdf/mer_b.pdf for further information on conversion factors.)

Cord of wood: A cord of wood measures 4 feet by 4 feet by 8 feet, or 128 cubic feet.

Crude oil (including lease condensate): A mixture of hydrocarbons that exists in liquid phase in natural underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities. Depending upon the characteristics of the crude stream, crude oil may also include: 1. small amounts of hydrocarbons that exist in gaseous phase in natural underground reservoirs but are liquid at atmospheric pressure after being recovered from oil well (casinghead) gas in lease separators and are subsequently comingled with the crude stream without being separately measured. Lease condensate recovered as a liquid from natural gas wells in lease or field separation facilities and later mixed into the crude stream is also included; 2. Small amounts of nonhydrocarbons produced with the oil, such as sulfur and various metals; 3. Drip gases, and liquid hydrocarbons produced from tar sands, gilsonite, and oil shale. Liquids produced at natural gas processing plants are excluded. Crude oil is refined to produce a wide array of petroleum products, including heating oils; gasoline, diesel and jet fuels; lubricants; asphalt; ethane, propane, and butane; and many other products used for their energy or chemical content.

Crude oil used directly: Crude oil consumed as fuel by crude oil pipelines and on crude oil leases.

Cubic foot (cf), natural gas: The amount of natural gas contained at standard temperature and pressure (60 degrees Fahrenheit and 14.73 pounds standard per square inch) in a cube whose edges are one foot long.

Current-dollar gross domestic product: A measure of gross domestic product using current price. See **gross domestic product (GDP)**.

Denaturant: Petroleum, typically pentanes plus or conventional motor gasoline, added to fuel ethanol to make it unfit for human consumption. Fuel ethanol is denatured, usually before transport from the ethanol production facility, by adding 2 to 5 volume percent denaturant.

Diesel fuel: A fuel composed of distillates obtained in petroleum refining operation or blends of such distillates with residual oil used in motor vehicles. The boiling point and specific gravity are higher for diesel fuels than for gasoline.

Distillate fuel oil: A general classification for one of the petroleum fractions produced in conventional distillation operations. It includes diesel fuels and fuel oils. Products known as No. 1, No. 2, and No. 4 diesel fuel are used in on-highway diesel engines, such as those in trucks and automobiles, as well as off-highway engines, such as those in railroad locomotives and agricultural machinery. Products known as No. 1, No. 2, and No. 4 fuel oils are used primarily for space heating and electric power generation.

Electric power sector: An energy-consuming sector that consists of electricity only and combined-heat-and-power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public—i.e., North American Industry Classification System 22 plants. See combined-heat-and-power (CHP) plant and electricity only plant. The electric power sector consumes primary energy to generate electricity and heat (forms of secondary energy). Electricity is sold to the four end-use sectors (residential, commercial, industrial, and transportation), stored for future use, and exported to other countries.

Electrical system energy losses: The amount of energy lost during generation, transmission, and distribution of electricity, including plant and unaccounted-for uses.

Electricity sales to ultimate customers: Electricity sales that are consumed by the customer and not available for resale. Includes electric sales to end users by third-party owners of behind-the-meter PV solar systems.

Electric utility: A corporation, person, agency, authority, or other legal entity or instrumentality aligned with distribution facilities for delivery of electric energy for use primarily by the public. Included are investor-owned electric utilities, municipal and state utilities, federal electric

utilities, and rural electric cooperatives. A few entities that are tariff based and corporately aligned with companies that own distribution facilities are also included.

Electric vehicle (EV): A general term for any on-road licensed vehicle that can plug into an electric power source and uses electric power to move. EVs plug into a source of electricity and store power in a battery pack for all or part of their power needs. Includes Battery electric vehicles (BEVs) and Plug-in hybrid vehicles (PHEVs). Can also be referred to as Plug-in Electric Vehicles (PEV).

Electric vehicle charging location: A geographically distinct place, based on latitude and longitude with one or more Electric Vehicle (EV) charging ports. One charging location can include co-located public and private EV charging ports, networked and non-networked EV charging ports, and EV charging ports of various speeds such as Level 2 and DC fast chargers. Multiple EV charging locations can be associated with a common development area, such as a parking lot or parking garage serving a shopping center or office building.

Electric vehicle charging port: The electric vehicle (EV) charging equipment that connects to and charges an EV. The number of ports is the total number of vehicles that can charge simultaneously at an EV charging location. A single EV charging port can connect to and charge one vehicle at a time. If the EV charging equipment can connect to and charge more than one vehicle simultaneously than that would count as multiple charging ports.

Electrical system energy losses: The amount of energy lost during generation, transmission, and distribution of electricity, including plant and unaccounted for uses.

Electricity sales to ultimate customers: Electricity sales that are consumed by the customer and not available for resale. Includes electric sales to end users by third-party owners of behind-the-meter PV solar systems.

End-use energy consumption: End-use sector (residential, commercial, industrial, and transportation) consumption of primary energy plus electricity sales to ultimate customers. The energy associated with electrical system energy losses is not included.

End-use sectors: The residential, commercial, industrial, and transportation sectors of the economy.

Energy: The capacity for doing work as measured by the capability of doing work (potential energy) or the conversion of this capability to motion (kinetic energy). Energy has several forms, some of which are easily convertible and can be changed to another form useful for work. Most of the world's convertible energy comes from fossil fuels that are burned to produce heat that is then used as a transfer medium to mechanical or other means to accomplish tasks. Electrical energy is usually measured in kilowatthours, while heat energy is usually measured in British thermal units (Btu).

Energy consumption: The use of energy as a source of heat or power or as a raw material input to a manufacturing process.

Energy expenditures: The money directly spent by consumers to purchase energy. Expenditures equal the amount of energy used by the consumer multiplied by the price per unit paid by the consumer. *Note:* In the calculation of the amount of energy used, process fuel and intermediate products are not included.

Energy-consuming sectors: The residential, commercial, industrial, transportation, and electric power sectors of the economy.

Ethane (C_2H_6): A straight-chain saturated (paraffinic) hydrocarbon extracted predominantly from the natural gas stream, which is gaseous at standard temperature and pressure. It is a colorless gas that boils at a temperature of -127 degrees Fahrenheit.

Ethanol (C_2H_5OH): A clear, colorless, flammable alcohol. Ethanol is typically produced biologically from biomass feedstocks such as agricultural crops and cellulosic residues from agricultural crops or wood. Ethanol can also be produced chemically from ethylene. See **fuel ethanol.**

Ethylene (C_2H_4): An olefinic hydrocarbon recovered from refinery or petrochemical processes, which is gaseous at standard temperature and pressure. Ethylene is used as a petrochemical feedstock for many chemical applications and the production of consumer goods.

Exports: Shipments of goods from within the 50 states and the District of Columbia to U.S. possessions and territories or to foreign countries.

f.a.s.: See **free alongside ship**.

Federal Energy Regulatory Commission (FERC): The federal agency with jurisdiction over interstate electricity sales, wholesale electric rates, hydroelectric licensing, natural gas pricing, oil pipeline rates, and gas pipeline certification. FERC is an independent regulatory agency within the Department of Energy and is the successor to the Federal Power Commission.

Federal Power Commission (FPC): The predecessor agency of the Federal Energy Regulatory Commission. The Federal Power Commission was created by an Act of Congress under the Federal Water Power Act on June 10, 1920. It was charged originally with regulating the electric power and natural gas industries. It was abolished on September 30, 1977, when the Department of Energy was created. Its functions were divided between the Department of Energy and the Federal Energy Regulatory Commission, an independent regulatory agency.

Fiscal year: The U.S. Government's fiscal year runs from October 1 through September 30. The fiscal year is designated by the calendar year in which it ends; e.g., fiscal year 2002 begins on October 1, 2001, and ends on September 30, 2002.

Fossil fuel: An energy source formed in the Earth's crust from decayed organic material. The common fossil fuels are petroleum, coal, and natural gas.

Free alongside ship (f.a.s.): The value of a commodity at the port of ex-portation, generally including the purchase price, plus all charges incurred in placing the commodity alongside the carrier at the port of exportation.

Fossil-fuel steam-electric power plant: An electricity generation plant in which the prime mover is a turbine rotated by high-pressure steam produced in a boiler by heat from burning fossil fuels.

Fuel ethanol: Ethanol intended for fuel use. Fuel ethanol in the United States must be anhydrous (less than 1% water). Fuel ethanol is denatured (made unfit for human consumption), usually before transport from the ethanol production facility, by adding 2 to 5 volume percent petroleum, typically pentanes plus or conventional motor gasoline. Fuel ethanol is used principally for blending in low concentrations with motor gasoline as an oxygenate or octane enhancer. In high concentrations, it is used to fuel alternative-fuel vehicles specially designed for its use.

Fuel ethanol excluding denaturant: See **fuel ethanol minus denaturant**.

Fuel ethanol minus denaturant: An unobserved quantity of anhydrous, biomass-derived, undenatured ethanol for fuel use. The quantity is obtained by subtracting the estimated denaturant volume from fuel ethanol volume. Fuel ethanol minus denaturant is counted as renewable energy, while denaturant is counted as nonrenewable fuel.

Gasohol: A blend of finished motor gasoline containing alcohol (generally ethanol but sometimes methanol) at a concentration between 5.7% and 10% by volume.

Geothermal energy: Hot water or steam extracted from geothermal reser-voirs in the Earth's crust. Water or steam extracted from geothermal reser-voirs can be used for geothermal heat pumps, water heating, or electricity generation.

Gross domestic product (GDP): The total value of goods and services produced by labor and property located in the United States. As long as the labor and property are located in the United States, the supplier (that is, the workers and, for property, the owners) may be either U.S. residents or residents of foreign countries.

Gross generation: The total amount of electric energy produced by generating units and measured at the generating terminal in kilowatthours (kWh) or megawatthours (MWh).

Heat content: The amount of heat energy available to be released by the transformation or use of a specified physical unit of an energy form (e.g., a ton of coal, a barrel of oil, a kilowatthour of electricity, a cubic foot of natural gas, or a pound of steam). The amount of heat energy is commonly expressed in British thermal units (Btu). *Note:* Heat content of combustible energy forms can be expressed in terms of either gross heat content (higher or upper heating value) or net heat content (lower heating value), depending upon whether or not the available heat energy includes or excludes the energy used to vaporize water (contained in the original energy form or created during the combustion process). The Energy Information Administration typically uses gross heat content values.

Heat rate: A measure of generating station thermal efficiency commonly stated as Btu per kilowatthour. *Note:* Heat rates can be expressed as either gross or net heat rates, depending on whether the electricity output is gross or net generation. Heat rates are typically expressed as net heat rates.

Heating degree days (HDD): A measure of how cold a location is over a period of time relative to a base temperature, most commonly specified as 65 degrees Fahrenheit. The measure is computed for each day by sub-tracting the average of the day's high and low temperatures from the base temperature (65 degrees), with negative values set equal to zero. Each day's heating degree days are summed to create a heating degree day measure for a specified reference period. Heating degree days are used in energy analysis as an indicator of space heating energy requirements or use.

Hydrocarbon gas liquids (HGL): A group of hydrocarbons including ethane, propane, normal butane, isobutane, and natural gasoline, and their associated olefins, including ethylene, propylene, butylene, and isobutylene. As marketed products, HGL represents all natural gas liquids (NGL) and olefins. EIA reports production of HGL from refineries (liquefied refinery gas, or LRG) and natural gas plants (natural gas plant liquids, or NGPL). Excludes liquefied natural gas (LNG).

Hydroelectric power: The use of flowing water to produce electrical energy.

Hydroelectric power, conventional: Hydroelectric power generated from flowing water that is not created by hydroelectric pumped storage.

Hydroelectric pumped storage: Hydroelectric power that is generated during peak load periods by using water previously pumped into an elevated storage reservoir during off-peak periods when excess generating capacity is available to do so. When additional generating capacity is needed, the water can be released from the reservoir through a conduit to turbine generators located in an electric power plant at a lower level.

Hydroelectric power plant: A plant in which the turbine generators are driven by falling water.

Imports: Receipts of goods into the 50 states and the District of Columbia from U.S. possessions and territories or from foreign countries.

Independent power producer: A corporation, person, agency, authority, or other legal entity or instrumentality that owns or operates facilities for the generation of electricity for use primarily by the public, and that is not an electric utility. *Note:* Independent power producers are included in the electric power sector.

Industrial sector: An energy-consuming sector that consists of all facilities and equipment used for producing, processing, or assembling goods. The industrial sector encompasses the following types of activity: manufacturing (NAICS codes 31-33); agriculture, forestry, fishing and hunting (NAICS code 11); mining, including oil and gas extraction (NAICS code 21); and construction (NAICS code 23). Overall energy use in this sector is largely for process heat and cooling and powering machinery, with lesser amounts used for facility heating, air conditioning, and lighting. Fossil fuels are also used as raw material inputs to manufactured products. *Note:* This sector includes generators that produce electricity and/or useful thermal output primarily to support the above-mentioned industrial activities.

Isobutane (C_4H_{10}): A branch-chain saturated (paraffinic) hydrocarbon extracted from both natural gas and refinery gas streams, which is gaseous at standard temperature and pressure. It is a colorless gas that boils at a temperature of 11 degrees Fahrenheit.

Isobutylene (C_4H_8): A branch-chain olefinic hydrocarbon recovered from refinery or petrochemical processes, which is gaseous at standard temperature and pressure. Isobutylene is used in the production of gasoline and various petrochemical products.

Jet fuel: A refined petroleum product used in jet aircraft engines. It includes kerosene-type jet fuel and naphtha-type jet fuel.

Jet fuel, kerosene-type: A kerosene-based product having a maximum distillation temperature of 400 degrees Fahrenheit at the 10% recovery point and a final maximum boiling point of 572 degrees Fahrenheit and meeting ASTM Specification D 1655 and Military Specifications MIL-T-5624P and MIL-T-83133D (Grades JP-5 and JP-8). It is used for commercial and military turbo jet and turbo prop aircraft engines.

Jet fuel, naphtha-type: A fuel in the heavy naphtha boiling range having an average gravity of 52.8 degrees API, 20% to 90% distillation temperatures of 290 degrees to 470 degrees Fahrenheit, and meeting Military Specification MIL-T-5624L (Grade JP-4). It is used primarily for military turbojet and turboprop aircraft engines because it has a lower freeze point than other aviation fuels and meets engine requirements at high altitudes and speeds. *Note:* Beginning with January 2004 data, naphtha-type jet fuel is included in Miscellaneous Products.

Kerosene: A light petroleum distillate that is used in space heaters, cook stoves, and water heaters and is suitable for use as a light source when burned in wick-fed lamps. Kerosene has a maximum distillation temperature of 400 degrees Fahrenheit at the 10% recovery point, a final maximum boiling point of 572 degrees Fahrenheit, and a minimum flash point of 100 degrees Fahrenheit. Included are No. 1-K and No. 2-K, the two grades recognized by ASTM Specification D 3699 as well as all other grades of kerosene called range or stove oil, which have properties similar to those of No. 1 fuel oil. Also see **Jet Fuel, Kerosene-type**.

Kilowatthour (kWh): A measure of electricity defined as a unit of work or energy, measured as 1 kilowatt (1,000 watts) of power expended for 1 hour. One kWh is equal to 3,412 Btu.

Lease and plant fuel: Natural gas used in well, field, and lease operations (such as gas used in drilling operations, heaters, dehydrators, and field compressors) and as fuel in natural gas processing plants.

Lease condensate: A mixture consisting primarily of hydrocarbons heavier than pentanes that is recovered as a liquid from natural gas in lease separation facilities. This category excludes natural gas plant liquids, such as butane and propane, which are recovered at downstream natural gas processing plants or facilities.

Liquefied petroleum gases (LPG): A group of hydrocarbon gases, primarily propane, normal butane, and isobutane, derived from crude oil refining or natural gas processing. These gases may be marketed individually or mixed. They can be liquefied through pressurization (without requiring cryogenic refrigeration) for convenience of transportation or storage. Excludes ethane and olefins. *Note*: In some EIA publications, LPG includes ethane and marketed refinery olefin streams, in accordance with definitions used prior to January 2014.

Lubricants: Substances used to reduce friction between bearing surfaces, or incorporated into other materials used as processing aids in the manufacture of other products, or used as carriers of other materials. Petroleum lubricants may be produced either from distillates or residues. Lubricants include all grades of lubricating oils, from spindle oil to cylinder oil to those used in greases.

Methanol (CH_3OH): A light, volatile alcohol eligible for gasoline blending.

Miscellaneous petroleum products: Includes all finished products not classified elsewhere (e.g., petrolatum lube refining by products (aromatic extracts and tars), absorption oils, ram-jet fuel, petroleum rocket fuels, synthetic natural gas feed stocks, and specialty oils).

Motor gasoline (finished): A complex mixture of relatively volatile hydrocarbons with or without small quantities of additives, blended to form a fuel suitable for use in spark-ignition engines. Motor gasoline, as defined in ASTM Specification D 4814 or Federal Specification VV-G-1690C, is characterized as having a boiling range of 122 to 158 degrees Fahrenheit at the 10% recovery point to 365 to 374 degrees Fahrenheit at the 90% recovery point. Motor Gasoline includes conventional gasoline; all types of oxygenated gasoline, including gasohol; and reformulated gasoline, but excludes aviation gasoline. *Note:* Volumetric data on blending components, such as oxygenates, are not counted in data on finished motor gasoline until the blending components are blended into the gasoline.

Motor gasoline blending components: Naphthas (e.g., straight-run gas-oline, alkylate, reformate, benzene, toluene, xylene) used for blending or compounding into finished motor gasoline. These components include re-formulated gasoline blendstock for oxygenate blending (RBOB) but exclude oxygenates (alcohols, ethers), butane, and pentanes plus. *Note:* Oxygenates are reported as individual components and are included in the total for other hydrocarbons, hydrogens, and oxygenates.

Natural gas: A gaseous mixture of hydrocarbon compounds, the primary one being methane.

Natural gas liquids (NGL): A group of hydrocarbons including ethane, propane, normal butane, isobutane, and natural gasoline. Generally include natural gas plant liquids and all liquefied refinery gases except olefins.

Natural gas, dry: Natural gas which remains after: 1) the liquefiable hydrocarbon portion has been removed from the gas stream (i.e., gas after lease, field, and/or plant separation); and 2) any volumes of nonhydrocarbon gases have been removed where they occur in sufficient quantity to render the gas unmarketable. *Note*: Dry natural gas is also known as consumer-grade natural gas. The parameters for measurement are cubic feet at 60 degrees Fahrenheit and 14.73 pounds per square inch absolute.

Natural gasoline: A commodity product commonly traded in natural gas liquids (NGL) markets that comprises liquid hydrocarbons (mostly pentanes and hexanes) and generally remains liquid at ambient temperatures and atmospheric pressure. Natural gasoline is equivalent to pentanes plus.

Net generation: The amount of **gross generation** less the electrical energy consumed at the generating station(s) for station service or auxiliaries. *Note*: Electricity required for pumping at pumped-storage plants is regarded as electricity for station service and is deducted from **gross generation**.

Net interstate flow of electricity: The difference between the sum of electricity sales and losses within a state and the total amount of electricity generated within that state. A positive number indicates that more electricity (including associated losses) came into the state than went out of the state during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the state than came into the state.

Net summer capacity: The maximum output, commonly expressed in thousand kilowatts (kW), that generating equipment can supply to system load, as demonstrated by a multi-hour test, at the time of summer peak demand (period of June 1 through September 30). This output reflects a reduction in capacity due to electricity use for station service or auxiliaries.

Nominal dollars: A measure used to express nominal price.

Nominal price: The price paid for a product or service at the time of the transaction. Nominal prices are those that have not been adjusted to remove the effect of changes in the purchasing power of the dollar; they reflect buying power in the year in which the transaction occurred.

Non-biomass waste: Material of non-biological origin that is a byproduct or a discarded product. "Non-biomass waste" includes municipal solid waste from non-biogenic sources, such as plastics, and tire-derived fuels.

Non-combustion use: Fossil fuels (coal, natural gas, and petroleum products) that are not burned to release energy and instead used directly as construction materials, chemical feedstocks, lubricants, solvents, waxes, and other products. Sometimes used synonymously with "nonfuel use (of energy)."

Nonutilities: See **nonutility power producer**.

Nonutility power producer: A corporation, person, agency, authority, or other legal entity or instrumentality that owns or operates facilities for electric generation and is not an electric utility. Nonutility power producers include qualifying cogenerators, qualifying small power producers, and other nonutility generators (including independent power producers). Nonutility power producers are without a designated franchised service area and do not file forms listed in the *Code of Federal Regulations*, Title 18, Part 141.

Normal butane (C_4H_{10}): A straight-chain saturated (paraffinic) hydrocarbon extracted from both natural gas and refinery gas streams, which is gaseous at standard temperature and pressure. It is a colorless gas that boils at a temperature of 31 degrees Fahrenheit.

North American Industry Classification System (NAICS): A classification scheme, developed by the Office of Management and Budget to replace the Standard Industrial Classification (SIC) System, that categorizes establishments according to the types of production processes they primarily use.

Nuclear electric power (nuclear power): Electricity generated by the use of the thermal energy released from the fission of nuclear fuel in a reactor.

Nuclear fuel: Fissionable materials that have been enriched to a composition that, when placed in a nuclear reactor, will support a self-sustaining fission chain reaction, producing heat in a controlled manner for process use.

Other biofuels: Fuels and fuel blending components, except biodiesel, renewable diesel fuel, and fuel ethanol, produced from renewable biomass.

Other energy losses: Energy losses throughout the energy system as they are consumed, usually in the form of heat, that are not separately identified by the U.S. Energy Information Administration. Examples include heat lost in the process of burning motor gasoline to move vehicles or in electricity used to power a lightbulb.

PAD Districts or PADD: Petroleum Administration for Defense Districts. A geographic aggregation of the 50 states and the District of Columbia into five Districts, with PADD 1 further split into three subdistricts. The PADDs include the states listed below:

- PADD 1 (East Coast):
  - PADD 1A (New England): Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont.
  - PADD 1B (Central Atlantic): Delaware, District of Columbia, Maryland, New Jersey, New York, and Pennsylvania.
  - PADD 1C (Lower Atlantic): Florida, Georgia, North Carolina, South Carolina, Virginia, and West Virginia.
- PADD 2 (Midwest): Illinois, Indiana, Iowa, Kansas, Kentucky, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, Oklahoma, South Dakota, Tennessee, and Wisconsin.
- PADD 3 (Gulf Coast): Alabama, Arkansas, Louisiana, Mississippi, New Mexico, and Texas.
- PADD 4 (Rocky Mountain): Colorado, Idaho, Montana, Utah, and Wyoming.
- PADD 5 (West Coast): Alaska, Arizona, California, Hawaii, Nevada, Oregon, and Washington.

Pentanes plus: A mixture of liquid hydrocarbons, mostly pentanes and heavier, extracted from natural gas in a gas processing plant. Pentanes plus is equivalent to natural gasoline.

Petrochemical feedstocks: Chemical feedstocks derived from petroleum principally for the manufacture of chemicals, synthetic rubber, and a variety of plastics. In this report the categories reported are "Naphtha Less Than 401°F" and "Other Oils Equal to or Greater Than 401°F."

Petroleum: A broadly defined class of liquid hydrocarbon mixtures. Included are crude oil, lease condensate, unfinished oils, refined products obtained from the processing of crude oil, and natural gas plant liquids.

Note: Volumes of finished petroleum products include nonhydrocarbon compounds, such as additives and detergents, after they have been blended into the products.

Petroleum coke: A residue high in carbon content and low in hydrogen that is the final product of thermal decomposition in the condensation process in cracking. This product is reported as marketable coke or catalyst coke. The conversion is 5 barrels (of 42 U.S. gallons each) per short ton.

Petroleum coke, catalyst: The carbonaceous residue that is deposited on and deactivates the catalyst used in many catalytic operations (e.g., catalytic cracking). Carbon is deposited on the catalyst, thus deactivating the catalyst. The catalyst is reactivated by burning off the carbon, which is used as a fuel in the refining process. That carbon or coke is not recoverable in a concentrated form.

Petroleum coke, marketable: Those grades of coke produced in delayed or fluid cokers that may be recovered as relatively pure carbon. Marketable petroleum coke may be sold as is or further purified by calcining.

Petroleum consumption: The sum of all refined petroleum products sup-plied. See **products supplied (petroleum)**.

Petroleum products: Petroleum products are obtained from the processing of crude oil (including lease condensate), natural gas, and other hydrocarbon compounds. Petroleum products include unfinished oils, hydrocarbon gas liquids, aviation gasoline, motor gasoline, naphtha-type jet fuel, kerosene-type jet fuel, kerosene, distillate fuel oil, residual fuel oil, petrochemical feedstocks, special naphthas, lubricants, waxes, petroleum coke, asphalt, road oil, still gas, and miscellaneous products.

Photovoltaic energy: Direct-current electricity generated from photovoltaic cells. See **photovoltaic cells (PVC)**.

Photovoltaic cells (PVC): An electronic device consisting of layers of semiconductor materials fabricated to form a junction (adjacent layers of materials with different electronic characteristics) and electrical contacts and being capable of converting incident light directly into electricity (direct current).

Plant condensate: Liquid hydrocarbons recovered at inlet separators or scrubbers in natural gas processing plants at atmospheric pressure and ambient temperatures. Mostly pentanes and heavier hydrocarbons.

Plug-in hybrid electric vehicle (PHEV): A vehicle that can both (1) plug into an electric power source and store power in a battery pack and (2) use petroleum-based or other liquid- or gas-based fuel to power an internal combustion engine (ICE).

Primary energy consumption: Consumption of primary energy. EIA includes the following in U.S. primary energy consumption:

- Coal
- Coal coke net imports
- Petroleum (equal to petroleum products supplied, excluding biofuels)
- Dry natural gas, excluding supplemental gaseous fuels
- Nuclear electricity net generation (converted to Btu using the average annual heat rate of nuclear plants)
- Conventional hydroelectricity net generation (converted to Btu using the heat content of electricity)
- Geothermal electricity net generation (converted to Btu using the heat content of electricity), geothermal heat pump energy, and geothermal direct-use thermal energy
- Solar thermal and photovoltaic electricity net generation, both utility-scale and small-scale (converted to Btu using the heat content of electricity)
- Solar thermal direct-use energy
- Wind electricity net generation (converted to Btu using the heat content of electricity)
- Wood and wood-derived fuels
- Biomass waste
- Biofuels (fuel ethanol, biodiesel, renewable diesel, and other biofuels)
- Losses and co-products from the production of biofuels
- Electricity net imports (converted to Btu using the electricity heat content of electricity)

Primary energy consumption also includes all non-combustion uses of fossil fuels. Energy sources produced from other energy sources—for example, coal coke from coal—are included in primary energy consumption only if their energy content has not already been included as part of the original energy source. As a result, U.S. primary energy consumption does include net imports of coal coke, but it does not include the coal coke produced from domestic coal.

Primary energy expenditures: Expenditures for energy consumed in each of the four major end-use sectors, excluding energy in the form

of electricity, plus expenditures by the electric power sector for energy used to generate electricity. There are no fuel-associated expenditures for associated expenditures for hydroelectric power, geothermal energy, photovoltaic and solar energy, or wind energy. Also excluded are the quantifiable consumption expenditures that are an integral part of process fuel consumption.

Process fuel: All energy consumed in the acquisition, processing, and transportation of energy. Quantifiable process fuel includes three categories: natural gas lease and plant operations, natural gas pipeline operations, and oil refinery operations.

Product supplied (petroleum): Approximately represents consumption of petroleum products because it measures the disappearance of these products from primary sources, i.e., refineries, natural gas-processing plants, blending plants, pipelines, and bulk terminals. In general, product supplied of each product in any given period is computed as follows; field production, plus refinery production, plus imports, plus unaccounted-for crude oil (plus net receipts when calculated on a PAD District basis) minus stock change, minus crude oil losses, minus refinery inputs, and minus exports.

Propane (C_3H_8): A straight-chain saturated (paraffinic) hydrocarbon extracted from natural gas or refinery gas streams, which is gaseous at standard temperature and pressure. It is a colorless gas that boils at a temperature of -44 degrees Fahrenheit. It includes all products designated in ASTM Specification D1835 and Gas Processors Association specifications for commercial (HD-5) propane.

Propylene (C_3H_6): An olefinic hydrocarbon recovered from refinery or petrochemical processes, which is gaseous at standard temperature and pressure. Propylene is an important petrochemical feedstock.

Refinery (petroleum): An installation that manufactures finished petroleum products from crude oil, unfinished oils, natural gas liquids, other hydrocarbons, and alcohol.

Refinery olefins: Subset of olefinic hydrocarbons (olefins) produced at crude oil refineries, including ethylene, propylene, butylene, and isobutylene.

Renewable diesel fuel: Renewable fuel consisting of hydrocarbon molecules, produced through the hydrotreating of animal fats, vegetable oils, and recycled grease feedstocks. It is considered a drop-in replacement to petroleum-based diesel fuel (for example, it can be used in diesel engines without modification). Renewable diesel fuel reported on the EIA-819 is produced at dedicated biorefineries or co-processed at petroleum refineries.

Renewable energy: Energy resources that are naturally replenishing but flow-limited. They are virtually inexhaustible in duration but limited in the amount of energy that is available per unit of time. In this report, renewable sources of energy include biomass, hydroelectric power, geothermal, solar, and wind.

Residential sector: An energy-consuming sector that consists of living quarters for private households. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a variety of other appliances. The residential sector excludes institutional living quarters.

Residual fuel oil: A general classification for the heavier oils, known as No. 5 and No. 6 fuel oils, that remain after the distillate fuel oils and lighter hydrocarbons are distilled away in refinery operations. It conforms to ASTM Specifications D 396 and D 975 and Federal Specification VV-F-815C. No. 5, a residual fuel oil of medium viscosity, is also known as Navy Special and is defined in Military Specification MIL-F-859E, including Amendment 2 (NATO Symbol F-770). It is used in steam-powered vessels in government service and inshore powerplants. No. 6 fuel oil includes Bunker C fuel oil and is used for the production of electric power, space heating, vessel bunkering, and various industrial purposes.

Road oil: Any heavy petroleum oil, including residual asphaltic oil, used as a dust palliative and surface treatment on roads and highways. It is generally produced in six grades, from 0, the most liquid, to 5, the most viscous.

Short ton: A unit of weight equal to 2,000 pounds.

Solar energy: The radiant energy of the sun, which can be converted into other forms of energy, such as heat or electricity.

Special naphthas: All finished products within the naphtha boiling range that are used as paint thinners, cleaners, or solvents. These products are refined to a specified flash point. Special naphthas include all commercial hexane and cleaning solvents conforming to ASTM Specifications D1836 and D484, respectively. Naphthas to be blended or marketed as motor gasoline or aviation gasoline, or that are to be used as petrochemical and synthetic natural gas (SNG) feedstocks, are excluded.

Standard Industrial Classification (SIC): Replaced with North American Industry Classification System. See **NAICS**.

Steam coal: See **coal**.

Still gas: Any form or mixture of gases produced in refineries by distillation, cracking, reforming, and other processes. The principal constituents are methane and ethane. May contain hydrogen and small/trace amounts of other gases. Still gas is typically consumed as refinery fuel or used as petrochemical feedstock. Still gas burned for refinery fuel may differ in composition from marketed still gas sold to other users.

Supplemental gaseous fuels supplies: Synthetic natural gas, propane-air, coke oven gas, refinery gas, biomass gas, air injected for Btu stabilization, and manufactured gas commingled and distributed with natural gas.

Total energy consumption: Primary energy consumption, electricity sales to ultimate customers, and electrical system energy losses allocated to each end-use sector. Also includes other energy losses throughout the energy system.

Transportation sector: An energy-consuming sector that consists of all vehicles whose primary purpose is transporting people and/or goods from one physical location to another. Included are automobiles; trucks; buses; motorcycles; trains, subways, and other rail vehicles; aircraft; and ships, barges, and other waterborne vehicles. Vehicles whose primary purpose is not transportation (e.g., construction cranes and bulldozers, farming vehicles, and warehouse tractors and forklifts) are classified in the sector of their primary use. In this report, natural gas used in the operation of natural gas pipelines is included in the transportation sector.

Unfinished oils: All oils requiring further processing, except those requiring only mechanical blending. Unfinished oils are produced by partial refining of crude oil and include naphthas and lighter oils, kerosene and light gas oils, heavy gas oils, and residuum.

Unfractionated streams: Mixtures of unsegregated natural gas liquid components, excluding those in plant condensate. This product is extracted from natural gas.

United States: The 50 states and the District of Columbia. *Note*: The United States has varying degrees of jurisdiction over a number of territories and other political entities outside the 50 states and the District of Columbia, including Puerto Rico, the U.S. Virgin Islands, Guam, American Samoa, Johnston Atoll, Midway Islands, Wake Island, and the Northern Mariana Islands. EIA data programs may include data from some or all of these areas in U.S. totals. For these programs, data products will contain notes explaining the extent of geographic coverage included under the term “United States.”

Value added by manufacture: A measure of manufacturing activity that is derived by subtracting the cost of materials (which covers materials, supplies, containers, fuel, purchased electricity, and contract work) from the value of shipments. This difference is then adjusted by the net change in finished goods and work-in-progress between the beginning- and end-of-year inventories.

Vessel bunkering: Includes sales for the fueling of commercial or private boats, such as pleasure craft, fishing boats, tugboats, and ocean-going ves-sels, including vessels operated by oil companies. Excluded are volumes sold to the U.S. Armed Forces.

Waste energy: Municipal solid waste, landfill gas, methane, digester gas, liquid acetonitrile waste, tall oil, waste alcohol, medical waste, paper pellets, sludge waste, solid byproducts, tires, agricultural byproducts, closed loop biomass, fish oil, and straw used as fuel. See **biomass waste** and **non-biomass waste**.

Wax: A solid or semi-solid material consisting of a mixture of hydrocarbons obtained or derived from petroleum fractions, or through a Fischer-Tropsch type process, in which the straight-chained paraffin series predominates. This includes all marketable wax, whether crude or refined, with a congealing point (ASTM D 938) between 100 and 200 degrees Fahrenheit and a maximum oil content (ASTM D 3235) of 50 weight percent.

Wind energy: Kinetic energy present in wind motion that can be converted to mechanical energy for driving pumps, mills, and electric power generators.

Wood energy: Wood and wood products used as fuel, including round wood (cord wood), limb wood, wood chips, bark, sawdust, forest residues, charcoal, pulp waste, and spent pulping liquor.