

Table ET.2. Total end-use energy price and expenditure estimates, selected years, 1970-2022, United States

Year	Primary energy												Electricity ^k	Total energy ^{h,i,j}	
	Coal coke			Natural gas ^a	Petroleum						Biomass	Total ^{h,i,j}			
	Coal	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}
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	7.57	27.64	16.54	22.12	28.61	16.16	26.62	26.28	4.21	19.43	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	4.63	19.07	30.74	21.33
2015	3.54	9.28	5.90	7.14	18.64	10.69	12.12	20.22	8.92	20.25	18.04	3.86	14.09	30.66	17.31
2016	3.18	8.75	5.78	6.55	15.85	10.18	9.83	18.04	6.70	17.58	15.77	3.51	12.49	30.26	15.95
2017	3.40	9.32	7.11	7.19	18.29	12.70	12.09	20.26	8.83	18.71	17.95	3.58	14.12	30.88	17.32
2018	3.56	10.53	10.66	7.11	21.88	14.20	15.72	22.52	11.74	22.07	20.62	3.64	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	3.67	14.92	31.05	17.96
2020	3.55	10.56	10.22	6.74	17.18	9.22	9.79	18.01	7.81	18.91	16.03	2.78	12.46	31.19	16.24
2021	3.50	10.18	10.81	8.28	15.51	15.14	14.51	24.80	11.93	23.28	21.87	3.42	16.91	32.66	19.98
2022	5.10	13.79	20.50	10.74	34.70	15.47	26.05	32.41	19.95	31.94	30.20	4.39	23.02	36.35	25.66

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	235,268	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	130,174	43,052	36,354	317,082	9,658	44,646	580,967	4,321	716,093	350,435	1,066,528
2010	6,648	245	403	122,312	166,859	54,863	48,346	376,491	12,461	54,542	713,561	5,686	848,365	365,913	1,214,278
2011	7,377	210	552	118,510	220,538	64,040	66,773	462,435	14,755	63,327	891,867	6,364	1,024,459	368,009	1,392,469
2012	7,150	209	384	100,466	219,526	49,258	66,845	473,216	13,041	58,550	880,436	6,086	994,313	360,863	1,355,175
2013	6,509	186	29	114,638	220,922	52,282	65,668	467,328	10,524	59,745	876,470	6,874	1,004,335	372,068	1,376,403
2014	5,879	233	9	131,984	225,011	54,050	62,745	452,821	7,188	58,515	860,331	7,590	1,005,560	389,872	1,395,432
2015	4,993	197	20	107,674	155,237	34,299	38,820	342,578	4,448	46,040	621,422	6,193	740,105	388,344	1,128,449
2016	3,907	217	33	97,544	128,551	32,309	32,928	310,961	4,544	39,279	548,571	5,479	655,318	383,567	1,038,885
2017	4,134	280	10	109,566	150,118	41,411	42,095	348,456	6,330	41,821	630,231	5,433	749,094	387,222	1,136,316
2018	4,256	301	31	118,750	188,857	52,674	55,549	387,586	7,616	47,856	740,139	5,774	868,649	403,349	1,271,998
2019	4,439	271	35	116,516	179,394	42,452	52,706	370,930	6,435	46,754	698,670	5,710	825,100	398,774	1,223,875
2020	3,382	179	41	105,945	136,259	36,385	21,863	268,098	3,325	37,677	503,607	3,950	616,746	390,934	1,007,680
2021	3,683	156	31	132,883	192,625	63,948	41,143	403,022	7,915	48,023	756,676	4,925	897,674	419,304	1,316,978
2022	5,104	793	34	178,905	302,252	61,113	84,100	526,258	13,563	60,757	1,048,043	6,386	1,237,681	481,757	1,719,438

^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. <http://www.eia.gov/state/seds/>

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2022, United States

Year	Primary energy								Electricity ^f	Total energy ^e
	Coal ^a	Natural gas ^b	Petroleum				Biomass	Total ^e		
			Distillate fuel oil	HGL ^c	Kerosene	Total				
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	26.86	12.63	12.71	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	22.77
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	21.20	21.20	R 8.78	11.81	38.14	23.13
2020	—	10.33	15.99	20.59	15.37	18.47	7.26	R 11.50	38.55	R 23.86
2021	—	11.69	19.20	26.81	23.05	23.05	8.72	R 13.44	40.03	R 25.51
2022	—	14.16	29.70	29.39	38.64	29.62	13.50	16.55	44.08	28.88
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	13,875	11,726	249	25,850	3,034	79,329	169,131	248,460
2014	—	55,735	14,675	14,708	422	29,805	2,994	88,534	176,178	264,712
2015	—	47,762	10,459	10,142	170	20,770	1,889	70,421	177,624	R 248,044
2016	—	43,572	7,039	9,268	183	16,490	1,411	61,473	177,077	238,550
2017	—	48,104	7,836	10,830	141	18,807	1,538	R 68,448	177,661	246,110
2018	—	52,411	10,177	13,134	201	23,512	2,057	77,980	189,033	267,013
2019	—	52,694	9,082	12,802	245	22,128	2,075	76,897	187,436	264,333
2020	—	50,344	6,513	10,189	167	16,869	R 1,083	R 68,296	192,663	R 260,959
2021	—	R 57,472	9,088	12,981	217	22,286	R 1,305	R 81,063	200,834	R 281,896
2022	—	73,267	14,213	14,821	327	29,361	2,471	105,099	226,990	332,089

^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 Hydrocarbon gas liquids, assumed to be propane only.

^d Wood and wood-derived fuels.

^e There are no direct fuel costs for geothermal or solar energy.

^f 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.

<http://www.eia.gov/state/seds/>

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2022, United States

Year	Primary energy										Electricity ⁱ	Total energy ^{f,g,h}
	Coal	Natural gas ^a	Petroleum					Biomass	Total ^{f,g,h}			
			Distillate fuel oil	HGL ^b	Kerosene	Motor gasoline ^c	Residual fuel oil			Wood and waste ^{e,f}		
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	10.07	30.07	20.64
2014	4.03	8.80	23.16	21.30	30.65	27.05	15.79	22.91	5.64	10.61	31.48	21.43
2015	4.19	7.80	14.26	12.66	16.85	14.26	8.86	16.61	4.25	9.51	31.18	20.72
2016	4.67	7.20	11.80	12.04	13.43	18.27	6.80	14.65	3.47	8.62	30.58	20.17
2017	5.06	7.80	14.03	R 15.78	16.82	20.53	8.94	R 17.11	3.74	9.55	31.25	20.86
2018	5.17	7.70	17.57	R 17.22	24.61	22.87	11.63	R 19.71	4.11	R 9.88	31.27	R 20.67
2019	5.40	7.55	16.22	R 13.48	22.84	22.07	11.40	R 18.10	4.56	9.50	31.29	20.40
2020	6.00	R 7.46	11.03	R 12.58	15.52	18.56	8.85	R 14.68	3.80	8.84	31.04	R 20.14
2021	5.93	R 8.73	17.41	R 19.83	23.12	25.35	13.11	R 21.19	4.35	R 11.24	32.87	R 22.17
2022	5.22	11.25	29.38	21.08	38.82	32.89	21.39	29.22	4.74	14.77	36.37	25.55
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	1,170	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	8,500	2,986	31	1,131	425	13,074	431	40,996	137,188	178,184
2014	163	31,538	8,242	3,418	63	1,456	125	13,304	461	45,467	145,253	190,720
2015	130	25,933	5,125	1,875	23	7,709	35	14,768	R 357	41,189	144,781	185,970
2016	112	23,278	3,838	1,806	28	6,847	30	12,549	303	36,242	142,642	178,885
2017	105	25,662	4,517	R 2,456	20	7,408	34	R 14,435	324	R 40,527	144,242	R 184,769
2018	97	28,147	5,663	R 3,029	33	8,379	36	R 17,141	355	R 45,740	147,425	R 193,165
2019	90	27,644	5,295	R 2,454	42	8,144	27	R 15,962	359	R 44,055	145,280	R 189,335
2020	87	R 24,596	3,041	R 2,530	26	6,889	21	R 12,508	289	R 37,479	136,372	R 173,852
2021	87	R 29,914	5,711	R 4,302	33	9,495	33	R 19,583	337	R 49,921	149,008	R 198,929
2022	76	41,118	9,743	4,250	51	14,472	69	28,586	537	70,318	172,600	242,917

^a Includes supplemental gaseous fuels that are commingled with natural gas.
^b Hydrocarbon gas liquids, assumed to be propane only.
^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 small amounts of petroleum coke not shown separately.
^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 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. <http://www.eia.gov/state/seds/>

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2022, United States

Year	Primary energy															Electricity ⁱ	Total energy ^{f,g,h}
	Coal			Coal coke		Natural gas ^a	Petroleum					Biomass	Total ^{f,g,h}				
	Coking coal	Steam coal	Total	Exports	Imports		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	0.44	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	12.95	16.54	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	12.95	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	17.85	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	16.11	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	19.48	10.81	2.71	6.70	21.05	11.56	
2022	6.82	3.60	5.10	13.79	20.50	8.20	28.31	12.92	32.87	19.62	26.97	20.42	2.92	12.48	24.41	14.50	
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	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	9,916	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	1,858	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	36,004	89,327	3,276	132,391	65,321	197,712	
2020	1,830	1,465	3,296	179	41	30,578	12,735	23,528	4,933	262	28,326	69,783	2,577	106,097	61,250	167,346	
2021	2,103	1,493	3,597	526	31	44,915	20,626	46,424	6,642	566	37,135	111,393	3,284	162,694	68,816	231,510	
2022	3,132	1,897	5,028	793	34	63,628	33,869	41,768	9,085	916	46,924	132,562	3,378	203,838	81,403	285,241	

^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. <http://www.eia.gov/state/seds/>

Table ET6. Transportation sector energy price and expenditure estimates, selected years, 1970-2022, United States

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	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	25.80	16.32	58.80	22.64	11.55	21.54	21.53	30.95	21.54
2011	—	7.42	31.64	27.79	R 29.63	22.64	69.54	28.59	15.12	27.56	27.53	30.67	27.54
2012	—	10.39	33.04	28.66	R 22.67	23.04	72.11	29.42	16.85	28.41	28.39	29.93	28.39
2013	—	11.73	32.71	28.35	R 23.14	22.12	69.42	28.61	16.01	27.75	27.73	30.93	27.73
2014	—	11.54	33.16	27.62	R 24.73	20.63	69.44	27.49	14.40	26.74	26.72	30.62	26.72
2015	—	9.77	24.86	19.55	R 15.02	12.12	67.28	20.21	8.85	19.17	19.15	29.57	19.16
2016	—	9.06	21.62	16.68	R 14.67	9.83	65.78	18.03	6.64	16.71	16.70	28.22	16.71
2017	—	9.11	24.13	19.18	R 19.26	12.09	67.25	20.25	8.76	18.92	R 18.90	28.38	18.91
2018	—	8.90	27.04	22.97	R 20.47	15.72	72.37	22.51	11.78	21.76	21.74	28.43	21.74
2019	—	9.15	25.57	22.06	R 17.19	14.61	74.92	21.59	11.26	20.84	20.82	28.32	20.83
2020	—	8.39	22.34	18.43	R 15.95	9.79	75.34	17.99	7.77	17.44	17.42	29.02	17.43
2021	—	R 10.31	28.86	R 23.92	R 24.77	14.51	81.25	24.78	11.88	R 23.40	R 23.37	29.90	R 23.38
2022	—	13.25	36.02	36.46	24.67	26.05	97.37	32.39	19.96	32.66	32.63	33.98	32.63
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	97,887	637	36,354	7,125	311,613	7,819	461,974	462,218	828	463,046
2010	—	199	681	126,196	118	48,346	9,100	369,432	10,300	564,174	564,372	814	565,187
2011	—	227	856	166,755	136	66,773	10,318	453,895	11,737	710,471	R 710,699	803	711,501
2012	—	319	830	164,471	102	66,845	9,765	464,635	11,299	R 717,947	718,265	747	R 719,013
2013	—	362	731	167,237	R 141	65,668	9,952	458,655	9,306	R 711,690	R 712,053	805	712,857
2014	—	420	720	170,097	R 188	62,745	10,371	445,572	6,429	R 696,122	R 696,542	810	R 697,353
2015	—	399	526	122,276	R 150	38,820	10,955	329,609	4,103	R 506,439	R 506,838	771	R 507,609
2016	—	395	443	103,434	R 173	32,928	R 10,097	299,361	4,139	R 450,575	R 450,970	722	R 451,692
2017	—	455	505	119,900	R 239	42,095	R 9,495	335,666	5,821	R 513,722	R 514,177	728	R 514,905
2018	—	465	606	150,548	R 258	55,549	R 9,858	373,095	7,114	R 597,028	R 597,493	744	R 598,236
2019	—	504	598	144,952	R 215	52,706	R 9,865	356,962	5,956	R 571,253	R 571,757	737	R 572,494
2020	—	427	451	113,970	R 138	21,863	R 8,706	256,276	3,043	R 404,448	R 404,874	648	R 405,523
2021	—	R 582	622	R 157,199	R 242	41,143	R 10,016	386,884	7,307	R 603,414	R 603,986	646	R 604,642
2022	—	892	803	244,426	275	84,100	12,650	502,702	12,578	857,534	858,426	765	859,191

^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. <http://www.eia.gov/state/seds/>

Table ET7. Electric power sector price and expenditure estimates, selected years, 1970-2022, United States

Year	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		
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	R 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	R 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	R 2.06	R 5.32	15.93	2.87	13.48	9.64	0.69	R 2.30	12.82	R 3.07
2022	2.44	7.25	25.28	3.94	22.66	17.05	0.61	2.56	19.84	4.17
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	R 42,897	61,936	1,555	275	3,240	5,070	3,976	1,091	3,556	R 118,526
2009	R 40,185	33,964	930	213	1,626	2,769	4,680	1,050	2,155	R 84,804
2010	R 43,587	38,991	1,325	290	1,921	3,536	5,414	1,207	2,047	R 94,782
2011	R 42,843	37,434	1,434	404	1,761	3,600	5,621	1,161	2,057	R 92,716
2012	R 37,800	32,363	1,244	216	1,594	3,055	5,965	1,047	1,923	R 82,154
2013	R 38,735	37,033	1,283	237	1,510	3,030	6,523	1,061	2,714	R 89,096
2014	R 38,966	42,414	1,821	211	1,673	3,706	6,252	1,442	3,020	R 95,800
2015	R 31,566	32,620	1,024	188	880	2,091	5,975	1,361	2,719	R 76,333
2016	R 27,766	30,073	611	177	568	1,356	5,857	1,273	2,168	R 68,493
2017	R 26,170	32,506	742	197	675	1,613	6,135	1,210	2,058	R 69,692
2018	R 24,947	39,013	1,308	240	989	2,538	5,916	1,066	2,135	R 75,615
2019	R 20,924	33,772	832	140	716	1,689	5,592	1,021	1,854	R 64,852
2020	R 16,141	29,013	487	140	473	1,100	5,195	753	1,757	R 53,959
2021	R 19,587	R 61,734	951	253	772	1,976	R 5,601	R 980	2,325	R 92,203
2022	21,683	90,567	2,108	334	1,714	4,156	4,890	960	3,857	126,113

^a Includes supplemental gaseous fuels that are commingled with natural gas.

^b Wood, wood-derived fuels, and biomass waste. 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. <http://www.eia.gov/state/seds/>