



UNITED STATES  
**Table ET2. Total End-Use Energy Price and Expenditure Estimates, Selected Years, 1970-2017, United States**

Year	Primary Energy													Electricity Retail Sales	Total Energy g,h,i
	Coal Coke			Natural Gas <sup>a</sup>	Petroleum						Biomass	Total g,h,i			
	Coal	Exports	Imports		Distillate Fuel Oil	HGL <sup>b</sup>	Jet Fuel <sup>c</sup>	Motor Gasoline <sup>d</sup>	Residual Fuel Oil	Other <sup>e</sup>			Total		
				Prices in Dollars per Million Btu											
1970	0.48	1.27	0.93	0.68	1.18	R 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	R 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	R 5.78	6.36	9.84	3.60	7.04	R 7.68	2.26	5.84	13.95	6.89
1985	1.84	2.76	2.99	4.91	7.24	R 6.82	5.91	9.01	4.33	7.63	R 7.78	2.51	R 6.50	19.05	R 8.38
1990	1.63	3.53	3.80	4.17	7.72	R 7.00	5.68	9.12	3.07	6.53	R 7.73	1.58	6.19	19.32	R 8.29
1995	1.58	2.71	3.43	4.20	7.03	R 6.67	4.00	R 9.24	2.41	6.11	R 7.44	1.47	R 5.96	20.29	R 8.31
1996	1.57	2.20	3.87	4.62	7.92	R 8.18	4.82	R 9.86	2.69	6.49	R 8.18	1.38	R 6.54	20.16	R 8.77
1997	1.58	2.64	3.25	4.96	7.72	R 7.57	4.53	R 9.83	3.00	6.42	R 8.07	1.31	R 6.59	20.13	R 8.83
1998	1.54	3.73	3.07	4.64	6.64	R 6.09	3.35	R 8.47	2.21	5.39	R 6.86	1.44	R 5.81	19.80	R 8.22
1999	1.53	3.88	2.83	4.65	7.25	R 6.77	4.01	R 9.32	2.62	6.04	R 7.59	1.57	R 6.31	19.52	R 8.58
2000	1.50	3.64	2.66	5.97	9.94	R 9.79	6.64	R 11.91	4.48	R 7.75	R 10.09	1.83	R 8.29	20.03	R 10.33
2001	1.59	3.27	3.04	7.49	9.26	R 9.77	5.72	R 11.36	4.24	7.10	R 9.60	2.27	R 8.48	21.41	R 10.78
2002	1.69	3.25	3.04	5.97	8.69	R 8.30	5.33	R 10.71	3.99	7.37	R 9.05	2.33	R 7.71	21.15	R 10.10
2003	1.67	3.88	3.49	7.65	10.09	R 10.57	6.46	R 12.36	5.04	8.19	R 10.56	2.06	R 9.17	21.85	R 11.44
2004	1.92	3.28	7.23	8.64	12.30	R 12.56	8.93	R 14.72	5.19	9.11	R 12.60	2.34	R 10.86	22.38	R 12.90
2005	2.46	3.39	8.92	10.64	16.49	R 14.95	12.86	R 17.98	6.51	11.41	R 15.90	3.30	R 13.69	23.92	R 15.57
2006	2.71	3.19	6.31	10.92	18.66	R 17.32	14.80	R 20.40	7.87	13.95	R 18.21	3.27	R 15.40	26.15	R 17.40
2007	2.81	3.66	7.84	10.40	20.05	R 19.31	16.01	R 22.34	8.44	15.59	R 19.89	3.37	R 16.37	26.84	R 18.34
2008	3.39	4.33	18.76	11.68	26.52	R 23.92	22.56	R 26.09	12.44	R 20.09	R 24.72	4.07	R 19.84	28.62	R 21.53
2009	3.71	4.17	10.82	9.12	R 17.16	R 16.76	12.61	R 18.97	9.81	17.14	R 17.43	3.75	R 14.41	28.90	R 17.26
2010	3.92	6.74	13.37	8.54	R 21.05	R 19.10	16.28	R 22.64	11.67	21.27	R 20.97	R 3.86	R 16.46	28.92	R 18.92
2011	4.53	8.75	15.71	8.21	R 27.08	R 22.73	22.60	R 28.59	15.37	26.31	R 26.66	R 4.19	R 20.06	29.12	R 21.86
2012	4.59	8.65	13.64	7.28	R 27.99	R 17.12	23.00	R 29.42	16.97	26.16	R 26.91	R 4.00	R 20.04	28.98	R 21.83
2013	4.10	8.91	8.55	7.57	R 27.64	R 16.54	22.09	R 28.61	16.16	26.55	R 26.27	R 4.21	R 19.42	29.64	R 21.42
2014	3.75	9.94	4.73	8.33	R 26.76	R 17.67	20.52	R 27.49	14.58	26.25	R 25.52	R 4.63	R 19.06	30.74	R 21.33
2015	3.54	9.28	5.90	7.14	R 18.64	R 10.69	12.05	R 20.22	8.92	20.17	R 18.02	R 3.86	R 14.08	30.66	R 17.30
2016	3.18	8.75	5.78	R 6.55	R 15.85	R 10.15	9.74	R 18.04	6.70	17.50	R 15.75	R 3.41	R 12.48	30.26	R 15.94
2017	3.40	9.32	7.11	7.19	18.29	12.73	12.04	20.26	8.83	18.64	17.95	3.53	14.09	30.88	17.30

  

Year	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	R 5,224	4,150	59,446	4,532	8,491	R 97,064	546	R 121,174	50,680	R 171,854
1980	6,157	130	52	42,705	39,893	R 10,929	13,856	124,408	11,127	26,035	R 226,248	1,224	R 276,255	98,095	R 374,350
1985	5,431	77	43	62,119	43,470	R 13,755	14,747	118,048	7,262	22,263	R 219,546	1,585	R 289,111	149,233	R 438,343
1990	4,748	50	72	57,469	48,794	R 13,845	17,784	126,558	4,879	21,408	R 233,268	1,889	R 297,961	176,691	R 474,652
1995	4,160	91	325	66,251	47,083	16,197	12,526	136,647	3,211	R 19,978	R 235,641	2,461	R 308,747	205,876	R 514,624
1996	4,049	88	244	76,517	55,905	21,086	15,770	148,344	3,414	R 21,607	R 286,125	2,340	R 349,187	211,105	R 560,293
1997	4,007	83	253	81,793	55,421	19,781	15,000	149,668	3,192	R 22,896	R 285,958	2,190	R 354,118	213,843	R 567,962
1998	3,635	104	292	72,096	47,880	15,241	11,239	132,730	2,097	R 20,634	R 229,820	2,183	R 307,921	218,361	R 526,283
1999	3,528	86	226	72,057	53,988	19,038	13,878	149,260	2,382	R 23,544	R 262,090	2,399	R 340,214	218,413	R 558,627
2000	3,535	103	249	94,990	77,009	27,970	23,781	192,153	5,308	R 26,374	R 354,595	2,867	R 456,133	231,577	R 687,711
2001	3,636	109	191	110,770	73,984	25,543	19,602	185,752	3,475	R 24,862	R 333,218	3,055	R 450,759	245,483	R 696,242
2002	3,590	64	244	90,697	68,559	22,980	17,802	179,796	3,657	R 25,729	R 318,523	3,376	R 416,366	247,598	R 663,964
2003	3,570	70	239	115,983	82,514	R 28,168	21,096	209,493	4,441	R 28,707	R 374,419	2,938	R 497,078	257,992	R 755,070
2004	4,154	107	1,232	129,410	104,845	34,408	30,219	254,873	5,693	35,277	R 465,315	3,074	R 603,077	268,133	R 871,210
2005	5,060	147	780	150,548	142,282	38,874	44,679	312,047	7,942	R 42,912	R 588,736	4,965	R 749,943	295,787	R 1,045,730
2006	5,371	128	636	146,374	163,345	45,355	50,007	357,286	9,504	R 52,054	R 677,552	5,053	R 834,858	323,962	R 1,158,821
2007	5,447	131	478	146,962	175,783	51,081	53,754	389,282	10,566	R 54,667	R 735,133	5,054	R 892,944	340,925	R 1,233,869
2008	6,352	210	1,676	168,530	219,381	R 59,610	72,046	438,237	14,709	R 62,029	R 866,011	5,947	R 1,048,305	360,454	R 1,408,759
2009	5,447	135	93	125,401	130,174	R 43,052	36,354	317,082	9,658	R 44,411	R 580,731	R 4,321	R 715,858	350,435	R 1,066,293
2010	6,648	245	403	122,312	R 166,859	R 54,920	48,243	376,491	12,461	R 54,345	713,318	R 5,686	R 848,122	365,913	R 1,214,034
2011	7,377	210	552	118,510	220,538	R 63,516	66,680	462,435	14,755	R 63,170	R 891,094	R 6,364	R 1,023,686	368,009	R 1,391,696
2012	7,150	209	384	100,466	219,526	R 49,412	66,736	473,216	13,041	R 58,355	R 880,285	R 6,086	R 994,161	360,863	R 1,355,024
2013	6,509	186	29	114,638	220,922	R 52,272	65,564	467,328	10,524	R 59,590	R 876,201	R 6,874	R 1,004,066	372,068	R 1,376,134
2014	5,879	233	9	131,984	225,011	R 54,022	62,421	452,821	7,188	R 58,354	R 859,817	R 7,590	R 1,005,046	389,872	R 1,394,918
2015	4,993	197	20	107,674	155,237	R 34,329	38,596	342,578	4,448	R 45,848	R 621,036	R 6,193	R 739,718	388,344	R 1,128,062
2016	3,907	217	33	R 97,544	128,551	R 32,168	32,639	310,961	4,544	R 39,101	R 547,962	R 5,324	R 654,554	383,567	R 1,038,120
2017	4,134	280	10	109,606	150,118	41,631	41,904	348,456	6,330	41,664	630,104	5,699	749,274	387,222	1,136,496

a Natural gas as it is consumed; includes supplemental gaseous fuels that are commingled with natural gas.  
 b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.  
 c 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."  
 d Beginning in 1993, includes fuel ethanol blended into motor gasoline.  
 e Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.  
 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. 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>.  
 Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

**Table ET3. Residential Sector Energy Price and Expenditure Estimates, Selected Years, 1970-2017, United States**

Year	Primary Energy							Electricity Retail Sales	Total Energy <sup>e</sup>	
	Coal <sup>a</sup>	Natural Gas <sup>b</sup>	Petroleum			Biomass	Total <sup>e</sup>			
			Distillate Fuel Oil	HGL <sup>c</sup>	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	R 10.02	5.74	7.49	2.88	6.11	24.63	12.60
1996	2.53	6.16	7.48	R 11.32	6.33	8.63	3.30	6.57	24.50	12.69
1997	2.48	6.75	7.46	R 11.28	6.29	8.61	3.24	7.03	24.71	13.25
1998	2.46	6.61	6.45	R 10.15	5.25	7.56	2.80	6.70	24.21	13.44
1999	2.37	6.50	6.62	R 10.04	5.73	7.78	2.87	6.68	23.93	13.15
2000	2.24	7.63	9.93	R 13.39	9.13	R 11.12	4.32	8.32	24.14	14.21
2001	2.93	9.42	9.49	R 14.67	8.81	R 11.23	4.22	9.70	25.16	15.62
2002	2.59	7.69	8.61	R 12.38	8.26	9.99	3.83	8.09	24.75	14.65
2003	2.46	9.24	10.33	R 14.65	9.83	11.83	4.60	9.69	25.56	R 15.79
2004	3.03	10.47	11.74	R 16.54	11.33	R 13.33	5.22	10.96	26.22	17.02
2005	3.46	12.34	15.54	R 19.13	14.76	16.77	6.96	13.16	27.68	19.16
2006	3.51	13.35	17.96	R 21.43	18.59	R 19.26	8.02	14.42	30.49	21.49
2007	3.50	12.70	19.76	R 23.31	21.27	R 21.19	8.86	14.27	31.22	21.57
2008	—	13.52	24.53	R 27.52	25.59	R 25.80	10.92	15.93	33.01	23.08
2009	—	11.81	R 18.29	R 23.56	22.00	R 20.87	R 8.17	R 13.36	33.73	22.04
2010	—	11.13	R 21.58	R 25.65	24.44	R 23.58	R 9.64	R 13.31	33.81	R 22.37
2011	—	10.78	R 25.94	R 28.25	28.49	R 27.08	R 11.59	R 13.59	34.34	R 22.81
2012	—	10.38	R 28.88	R 25.91	30.19	R 27.57	R 12.90	13.32	34.82	R 23.39
2013	—	10.01	R 28.29	R 25.30	30.19	R 26.86	R 12.63	12.71	35.54	22.59
2014	—	10.60	R 27.58	R 30.05	30.67	28.79	R 12.32	R 13.55	36.69	R 23.35
2015	—	9.96	R 19.01	R 22.75	16.81	20.64	R 8.42	R 11.69	37.08	R 22.93
2016	—	9.63	R 16.24	R 21.56	13.39	18.80	R 7.34	R 10.99	36.78	R 22.92
2017	—	10.47	18.17	25.15	16.74	21.61	8.22	12.11	37.77	23.77
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	R 2,030	504	R 7,488	143	R 16,194	20,644	R 36,838
1980	90	17,497	9,234	R 2,436	887	R 12,557	678	R 30,822	38,458	R 69,280
1985	127	27,136	8,667	R 2,825	1,252	R 12,745	944	R 40,951	58,672	R 99,623
1990	93	25,439	7,839	R 3,805	477	R 12,121	878	R 38,531	72,378	R 110,909
1995	45	29,362	5,903	3,960	426	10,289	657	40,352	87,610	127,961
1996	41	33,219	6,920	5,314	562	12,796	781	46,837	90,503	137,340
1997	39	34,590	6,516	5,139	584	12,239	630	47,497	90,704	138,201
1998	31	30,875	4,975	4,309	569	9,852	484	41,242	93,360	134,602
1999	33	31,577	5,471	5,289	637	11,397	509	43,516	93,482	136,999
2000	24	38,959	8,980	7,440	864	17,283	824	57,090	98,209	155,299
2001	32	46,189	8,610	7,721	837	17,169	694	64,083	103,158	167,241
2002	31	38,490	7,393	6,661	495	14,549	639	53,709	106,834	160,542
2003	30	48,278	9,618	7,984	691	18,294	807	67,409	111,249	178,658
2004	35	52,265	10,830	8,474	961	20,264	940	73,503	115,577	189,080
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	R 1,730	R 83,724	157,044	R 240,767
2010	—	54,396	12,109	13,589	711	26,409	R 2,188	R 82,994	166,778	R 249,772
2011	—	51,940	13,543	13,915	528	27,986	R 2,551	R 82,477	166,714	R 249,191
2012	—	44,131	13,914	10,251	234	24,398	R 2,374	R 70,904	163,280	R 234,184
2013	—	50,446	13,875	11,726	249	25,850	R 3,034	R 79,329	169,131	R 248,460
2014	—	55,735	14,675	14,708	422	29,805	R 2,994	R 88,534	176,178	R 264,712
2015	—	47,762	10,459	10,142	170	20,770	R 1,889	R 70,421	177,624	R 248,045
2016	—	R 43,572	7,039	9,268	183	16,490	R 1,422	R 61,483	177,077	R 238,560
2017	—	48,091	7,836	10,830	141	18,807	1,550	68,448	177,661	246,110

<sup>a</sup> Beginning in 2008, consumption data are no longer collected and are assumed to be zero.  
<sup>b</sup> Natural gas as it is consumed; includes supplemental gaseous fuels that are commingled with natural gas.  
<sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.  
<sup>d</sup> Wood and wood-derived fuels.  
<sup>e</sup> There are no direct fuel costs for geothermal or solar energy.

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>.  
 Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

**Table ET4. Commercial Sector Energy Price and Expenditure Estimates, Selected Years, 1970-2017, United States**

Year	Primary Energy									Electricity Retail Sales	Total Energy <sup>f,g,h</sup>	
	Coal	Natural Gas <sup>a</sup>	Petroleum					Total <sup>d</sup>	Biomass			Total <sup>f,g,h</sup>
			Distillate Fuel Oil	HGL <sup>b</sup>	Kerosene	Motor Gasoline <sup>c</sup>	Residual Fuel Oil					
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	R 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	R 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	R 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	R 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	R 8.89	5.55	R 9.42	3.14	5.14	2.25	4.85	22.29	12.62
1996	1.49	5.26	5.63	R 10.11	6.40	R 10.29	3.75	6.18	2.47	5.29	22.17	12.76
1997	1.50	5.67	5.28	R 10.33	6.18	R 10.03	3.27	6.10	2.43	5.58	22.03	13.03
1998	1.49	5.38	4.15	R 9.36	4.88	R 8.74	2.38	5.10	2.09	5.19	21.48	13.05
1999	1.49	5.22	4.65	R 9.14	5.33	R 9.47	2.69	5.56	1.89	5.14	21.01	12.84
2000	1.43	6.54	7.49	R 11.93	8.87	R 11.96	4.49	8.27	2.99	6.73	21.52	13.90
2001	1.55	8.32	6.70	R 12.90	8.38	R 11.52	4.06	7.89	3.22	8.03	22.99	15.54
2002	1.60	6.49	6.22	R 10.53	8.14	R 10.83	4.08	7.15	2.81	6.46	22.81	14.66
2003	1.55	8.07	7.63	R 12.50	9.80	R 12.28	5.30	R 8.60	3.48	7.99	23.54	15.61
2004	1.78	9.19	9.59	R 14.48	11.41	R 14.49	5.26	10.17	3.54	9.12	23.95	16.55
2005	2.16	10.98	13.64	R 16.92	14.96	R 17.95	7.48	13.56	4.67	11.17	25.40	18.59
2006	2.32	11.60	15.80	R 18.87	18.73	R 20.33	8.69	R 15.95	4.73	R 12.11	27.72	20.63
2007	2.36	10.99	17.37	R 20.74	21.13	R 22.27	9.71	17.61	5.59	11.86	28.27	20.74
2008	3.75	11.89	24.04	R 24.61	25.61	R 26.02	13.18	23.15	6.58	13.50	30.06	22.28
2009	4.25	9.70	R 14.78	R 19.49	21.92	R 18.88	9.90	R 15.61	R 4.76	10.50	29.77	R 20.67
2010	3.73	9.20	18.47	R 21.62	24.43	R 22.46	12.90	18.97	R 5.43	10.65	29.87	20.92
2011	3.99	8.79	R 24.69	R 25.30	28.40	R 28.44	17.34	R 24.48	R 5.94	11.17	30.00	21.18
2012	4.39	8.03	R 25.34	R 19.50	30.06	R 29.13	18.40	R 23.80	5.47	10.37	29.57	21.01
2013	4.18	8.06	R 24.79	R 19.70	30.05	R 28.37	17.41	R 23.34	5.56	10.07	30.07	20.64
2014	4.03	8.80	R 23.16	R 21.30	30.65	R 27.05	15.79	22.91	5.64	10.61	31.48	21.43
2015	4.19	7.80	R 14.26	R 12.66	16.85	R 20.50	8.86	R 16.61	R 4.25	9.51	31.18	20.72
2016	4.67	R 7.20	R 11.80	R 12.04	13.43	R 18.27	6.80	R 14.65	R 3.46	8.62	30.58	R 20.17
2017	5.06	7.80	14.03	15.76	16.82	20.53	8.94	17.10	3.72	9.55	31.25	20.86

  

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
1996	179	17,106	2,717	1,239	135	273	515	4,879	127	22,291	74,121	96,411
1997	193	18,755	2,344	1,244	152	428	363	4,531	125	23,603	77,153	100,756
1998	150	16,667	1,778	1,102	152	340	203	3,575	99	20,490	78,999	99,490
1999	152	16,351	2,038	1,283	143	269	197	3,931	104	20,537	79,141	99,679
2000	123	21,339	3,672	1,796	263	532	411	6,674	155	28,291	85,129	113,420
2001	136	25,879	3,404	1,844	263	430	284	6,225	145	32,386	93,402	125,788
2002	141	20,926	2,758	1,485	130	488	326	5,187	146	26,399	93,763	120,162
2003	129	26,411	3,779	1,964	183	735	589	7,249	188	33,976	96,263	130,240
2004	183	29,518	4,506	2,203	234	645	644	8,233	209	38,142	100,546	138,688
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	R 288	R 41,934	132,747	R 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	R 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	R 431	R 40,996	137,188	178,184
2014	163	31,538	8,242	3,418	63	1,456	125	13,304	461	R 45,467	145,253	R 190,720
2015	130	25,933	5,125	1,875	23	7,709	35	14,768	R 358	R 41,189	144,781	R 185,970
2016	112	R 23,278	3,838	1,806	28	6,847	30	12,549	R 302	R 36,241	142,642	R 178,884
2017	105	25,658	4,517	2,454	20	7,408	34	14,433	322	40,519	144,242	184,761

<sup>a</sup> Natural gas as it is consumed; includes supplemental gaseous fuels that are commingled with natural gas.  
<sup>b</sup> Hydrocarbon gas liquids, assumed to be propane only.  
<sup>c</sup> 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.  
<sup>d</sup> Includes small amounts of petroleum coke not shown separately.  
<sup>e</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.  
<sup>f</sup> 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.  
<sup>g</sup> There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.  
<sup>h</sup> For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. 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>.  
Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.



**Table ET6. Transportation Sector Energy Price and Expenditure Estimates, Selected Years, 1970-2017, United States**

Year	Primary Energy										Electricity Retail Sales	Total Energy <sup>d</sup>	
	Coal	Natural Gas	Petroleum							Total <sup>d</sup>			
			Aviation Gasoline	Distillate Fuel Oil	HGL <sup>a</sup>	Jet Fuel <sup>b</sup>	Lubricants	Motor Gasoline <sup>c</sup>	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	R 4.97	6.36	14.36	9.84	3.31	8.60	8.60	14.71	8.61
1985	—	—	9.99	7.52	R 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	R 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	R 11.78	4.00	21.75	R 9.24	2.18	R 8.11	R 8.11	22.63	R 8.12
1996	—	3.97	9.29	8.83	R 11.87	4.82	21.63	R 9.86	2.33	8.77	8.77	22.59	8.78
1997	—	4.34	9.39	8.58	R 11.45	4.53	21.82	R 9.83	2.95	R 8.73	R 8.73	22.47	R 8.74
1998	—	4.00	8.11	7.50	R 10.42	3.35	21.44	R 8.47	2.18	R 7.50	R 7.50	21.72	R 7.51
1999	—	4.19	8.81	8.14	R 12.28	4.01	23.04	R 9.32	2.61	R 8.28	R 8.28	20.57	R 8.29
2000	—	5.21	10.87	10.70	R 15.06	6.64	23.20	R 11.91	4.54	R 10.76	R 10.76	20.71	R 10.77
2001	—	7.09	11.01	10.01	R 16.06	5.72	24.51	R 11.36	4.38	R 10.25	R 10.25	21.59	R 10.26
2002	—	5.34	10.72	9.43	R 14.45	5.33	26.70	R 10.71	4.01	R 9.68	R 9.68	21.02	R 9.69
2003	—	6.68	12.42	10.79	R 16.29	6.46	28.94	R 12.36	5.06	R 11.23	R 11.23	22.05	R 11.24
2004	—	7.78	15.13	13.05	R 18.10	8.93	30.11	R 14.72	5.26	R 13.47	R 13.46	21.05	R 13.47
2005	—	9.16	18.56	17.30	R 20.50	12.86	35.22	R 17.98	6.22	R 16.92	R 16.92	25.12	R 16.92
2006	—	9.61	22.31	19.35	R 22.22	14.80	43.88	R 20.41	7.73	R 19.20	R 19.20	27.96	R 19.20
2007	—	9.19	23.70	20.64	R 24.46	16.01	47.16	R 22.34	8.19	R 20.83	R 20.82	28.42	R 20.83
2008	—	12.21	27.23	27.37	R 28.70	22.56	55.12	R 26.09	12.28	R 25.62	R 25.61	31.39	R 25.62
2009	—	8.71	20.32	R 17.68	R 22.70	12.61	56.07	R 18.98	9.89	R 17.90	R 17.89	31.25	R 17.90
2010	—	6.77	25.19	R 21.66	R 25.83	16.28	58.80	R 22.64	11.55	R 21.54	R 21.52	30.95	R 21.53
2011	—	7.42	31.64	R 27.79	R 29.56	22.60	69.54	R 28.59	15.12	R 27.55	R 27.53	30.67	R 27.53
2012	—	10.39	33.04	R 28.66	R 22.57	23.00	72.11	R 29.42	16.85	R 28.41	R 28.38	29.93	R 28.39
2013	—	11.73	32.71	R 28.35	R 23.07	22.09	69.42	R 28.61	16.01	R 27.74	R 27.72	30.93	R 27.73
2014	—	11.54	33.16	R 27.62	R 24.59	20.52	69.44	R 27.49	14.40	R 26.73	R 26.70	30.62	R 26.71
2015	—	9.77	24.86	R 19.55	R 14.92	12.05	67.28	R 20.21	8.85	R 19.16	R 19.14	29.57	R 19.15
2016	—	R 9.06	21.62	R 16.68	R 14.56	9.74	65.78	R 18.03	6.64	R 16.70	R 16.69	28.22	R 16.70
2017	—	9.60	24.13	19.18	19.10	12.04	67.25	20.25	8.76	18.92	18.90	28.38	18.91
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
1996	—	25	347	39,410	186	15,770	3,525	146,106	1,987	207,330	207,355	379	207,735
1997	—	37	373	40,050	163	15,000	3,756	147,164	2,096	208,601	208,638	376	209,015
1998	—	39	288	36,043	184	11,239	3,864	130,709	1,469	183,796	183,834	368	184,202
1999	—	50	345	40,656	176	13,878	4,196	147,592	1,737	208,580	208,630	360	208,989
2000	—	68	394	55,199	179	23,781	4,161	189,836	4,029	277,580	277,648	380	278,028
2001	—	106	385	52,914	221	19,602	4,028	181,979	2,562	261,690	261,796	404	262,200
2002	—	82	361	50,822	207	17,802	4,336	176,006	2,712	252,247	252,329	397	252,725
2003	—	126	375	60,238	291	21,096	4,345	204,781	2,887	294,013	294,139	518	294,656
2004	—	164	473	77,341	346	30,219	4,580	248,796	3,886	365,642	365,806	519	366,325
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	R 461,974	462,218	828	463,046
2010	—	199	681	126,196	R 192	48,243	9,100	369,432	10,300	R 564,145	R 564,344	814	R 565,158
2011	—	227	856	166,755	R 214	68,680	10,318	453,895	11,737	R 710,457	R 710,684	803	R 711,487
2012	—	319	830	164,471	R 159	66,736	9,765	464,635	11,299	R 717,894	R 718,213	747	R 718,960
2013	—	362	731	167,237	R 159	65,564	9,952	458,655	9,306	R 711,604	R 711,966	805	R 712,771
2014	—	420	720	170,097	R 175	62,421	10,371	445,572	6,429	R 695,785	R 696,205	810	R 697,016
2015	—	399	526	122,276	R 97	38,596	10,954	329,609	4,103	R 506,161	R 506,561	771	R 507,331
2016	—	R 395	443	103,434	R 102	32,639	10,154	299,361	4,139	R 450,272	R 450,667	722	R 451,388
2017	—	485	505	119,900	133	41,904	9,548	335,666	5,821	513,479	513,963	728	514,692

<sup>a</sup> Hydrocarbon gas liquids, assumed to be propane only.

<sup>b</sup> 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."

<sup>c</sup> Beginning in 1993, includes fuel ethanol blended into motor gasoline.

<sup>d</sup> For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.

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>.

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.



**Table ET7. Electric Power Sector Price and Expenditure Estimates, Selected Years, 1970-2017, United States**

Year	Coal	Natural Gas <sup>a</sup>	Petroleum				Nuclear Fuel	Biomass	Electricity Imports <sup>c</sup>	Total Energy <sup>d</sup>
			Distillate Fuel Oil	Petroleum Coke	Residual Fuel Oil	Total		Wood and Waste <sup>b</sup>		
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
1996	1.29	2.68	5.03	0.72	3.02	3.07	0.51	0.75	6.37	1.35
1997	1.28	2.79	4.53	0.96	2.82	2.82	0.51	0.53	6.71	1.38
1998	1.26	2.45	3.46	0.67	2.09	2.09	0.50	0.66	7.87	1.32
1999	1.23	2.62	4.11	0.61	2.40	2.43	0.48	0.54	8.69	1.33
2000	1.21	4.53	6.87	0.48	4.09	4.20	0.46	0.68	16.78	1.71
2001	1.25	5.21	6.16	0.97	3.78	3.87	0.44	1.30	20.47	1.85
2002	1.25	3.60	5.69	0.57	3.79	3.46	0.43	1.66	8.94	1.54
2003	1.27	5.42	6.84	0.61	4.47	4.22	0.42	1.69	13.21	1.84
2004	1.35	5.96	8.33	0.79	4.58	4.26	0.42	1.61	13.84	2.00
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	R 2.63	13.31	2.63
2011	2.38	4.84	22.56	2.92	18.93	12.20	0.68	R 2.66	11.53	2.65
2012	2.39	3.48	23.76	2.54	20.78	R 14.26	0.74	2.31	9.51	2.41
2013	2.36	4.41	23.20	1.93	19.56	11.88	0.79	R 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	R 2.91	11.15	1.49	8.04	5.56	0.70	R 2.33	8.74	2.09
2017	2.08	3.41	13.59	2.02	10.26	7.41	0.73	2.23	9.18	2.21
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
1996	23,862	10,387	550	57	1,899	2,506	3,624	328	945	41,652
1997	24,156	11,588	501	98	2,014	2,613	3,369	235	985	42,947
1998	24,140	11,525	469	83	2,184	2,736	3,555	294	1,061	43,311
1999	23,666	12,903	576	69	2,304	2,949	3,643	247	1,281	44,688
2000	24,424	24,104	1,199	47	3,562	4,808	3,628	307	2,783	60,053
2001	24,460	28,618	1,049	100	3,792	4,941	3,524	439	2,689	64,671
2002	24,811	20,839	725	99	2,499	3,323	3,504	629	1,122	54,229
2003	25,684	28,506	1,099	106	3,884	5,089	3,363	661	1,370	64,672
2004	27,474	33,433	926	167	4,023	5,116	3,445	618	1,615	71,701
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	42,900	61,936	1,555	275	3,240	5,070	3,976	1,091	3,556	118,530
2009	40,195	33,964	R 930	213	1,626	2,769	4,680	1,050	2,155	R 84,813
2010	43,596	38,991	1,325	290	1,921	R 3,536	5,414	R 1,207	2,047	R 94,791
2011	42,856	37,434	R 1,434	404	1,761	R 3,600	5,621	R 1,161	2,057	R 92,729
2012	37,815	32,363	R 1,244	216	1,594	3,055	5,965	R 1,047	1,923	R 82,168
2013	38,751	37,033	R 1,283	237	1,510	R 3,030	6,523	R 1,061	2,714	R 89,112
2014	38,993	42,414	R 1,821	211	1,673	R 3,706	6,252	1,442	3,020	R 95,827
2015	31,585	32,620	R 1,024	188	880	R 2,091	5,975	1,361	2,719	R 76,352
2016	27,787	R 30,073	R 611	177	568	R 1,356	5,857	R 1,178	2,075	R 68,326
2017	26,192	32,639	742	197	675	1,613	6,135	1,138	2,058	69,775

<sup>a</sup> Natural gas as it is consumed; includes supplemental gaseous fuels that are commingled with natural gas.

<sup>b</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

<sup>c</sup> Electricity imported from Canada and Mexico.

<sup>d</sup> 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 comprises 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>.

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.