

**UNITED STATES**  
**Table CT2. Primary Energy Consumption Estimates, Selected Years, 1960-2017, United States**  
 (Trillion Btu)

Year	Fossil Fuels											Fossil Fuels (as commingled)		
	Coal	Net Imports of Coal Coke	Natural Gas excluding Supplemental Gaseous Fuels <sup>a</sup>	Petroleum							Total	Total	Natural Gas including Supplemental Gaseous Fuels <sup>a</sup>	Motor Gasoline including Fuel Ethanol <sup>a</sup>
				Distillate Fuel Oil	HGL <sup>b</sup>	Jet Fuel <sup>c</sup>	Motor Gasoline excluding Fuel Ethanol <sup>a</sup>	Residual Fuel Oil	Other <sup>d</sup>	Total				
1960	9,831	-6	12,385	3,992	R 866	739	7,631	3,517	3,129	R 19,874	R 42,084	12,385	7,631	
1965	11,582	-18	15,779	4,519	R 1,170	1,215	8,806	3,691	3,784	R 23,184	R 50,527	15,779	8,806	
1970	12,269	-58	21,693	5,401	R 1,667	1,973	11,091	5,057	4,312	R 29,500	R 63,404	21,693	11,091	
1971	11,603	-33	22,365	5,658	R 1,700	2,061	11,532	5,269	4,322	R 30,541	R 64,477	22,365	11,532	
1972	12,110	-26	22,682	6,210	R 1,927	2,141	12,259	5,820	4,563	R 32,919	R 67,685	22,682	12,259	
1973	12,960	-7	22,595	6,575	R 1,959	2,167	12,797	6,477	4,831	R 34,806	R 70,354	22,595	12,797	
1974	12,651	56	21,730	6,267	R 1,914	2,030	12,535	6,056	4,619	R 33,421	R 67,857	21,730	12,535	
1975	12,656	14	19,977	6,061	R 1,811	2,047	12,798	5,649	4,332	R 32,699	R 65,345	19,977	12,798	
1976	13,576	(s)	20,381	6,679	R 1,877	2,026	13,415	6,445	4,700	R 35,142	R 69,099	20,381	13,415	
1977	13,907	15	19,972	7,126	R 1,867	2,126	13,760	7,047	5,156	R 37,083	R 70,977	19,972	13,760	
1978	13,770	125	20,068	7,296	R 1,848	2,164	14,211	6,936	5,464	R 37,919	R 71,881	20,068	14,211	
1979	15,042	63	20,688	7,039	R 2,214	2,204	13,487	6,485	5,646	R 37,076	R 72,868	20,688	13,487	
1980	15,461	-35	20,227	6,110	R 2,135	2,190	12,648	5,772	5,304	R 34,160	R 69,813	20,384	12,648	
1981	15,938	-16	19,750	6,014	R 2,098	2,062	12,631	4,791	4,289	R 31,884	R 67,556	19,928	12,631	
1982	15,269	-22	18,367	5,679	R 2,095	2,072	12,538	3,939	3,858	R 30,180	R 63,794	18,515	12,538	
1983	15,867	-16	17,212	5,720	R 1,983	2,141	12,697	3,260	4,196	R 29,997	R 63,061	17,348	12,697	
1984	17,014	-11	18,390	6,065	R 2,230	2,414	12,867	3,151	4,267	R 30,993	R 66,385	18,503	12,867	
1985	17,540	-13	17,714	6,098	R 2,252	2,497	13,098	2,759	4,164	R 30,867	R 66,107	17,843	13,098	
1986	17,241	-17	16,603	6,196	R 2,158	2,682	13,487	3,255	4,372	R 32,151	R 65,978	16,718	13,487	
1987	17,950	9	17,647	6,328	R 2,339	2,843	13,816	2,901	4,591	R 32,818	R 68,424	17,750	13,816	
1988	18,886	40	18,460	6,655	R 2,373	2,982	14,105	3,170	4,888	R 34,174	R 71,559	18,563	14,105	
1989	19,055	30	19,607	6,712	R 2,403	3,059	14,050	3,144	4,797	R 34,165	R 72,858	19,716	14,050	
1990	19,168	5	19,628	6,422	R 2,259	3,129	13,872	2,820	4,999	R 33,501	R 72,301	19,752	13,872	
1991	18,989	10	20,033	6,210	R 2,466	3,025	13,781	2,657	4,651	R 32,790	R 71,822	20,148	13,781	
1992	19,118	35	20,724	6,351	R 2,595	3,001	13,973	2,518	5,031	R 33,469	R 73,345	20,844	13,973	
1993	19,836	27	21,255	6,466	R 2,557	3,028	R 14,141	2,479	4,920	R 33,592	R 74,710	21,376	R 14,236	
1994	19,904	58	21,757	6,718	R 2,777	3,154	R 14,360	2,342	5,107	R 34,458	R 76,177	21,870	R 14,466	
1995	20,099	61	22,721	6,812	R 2,791	3,132	R 14,680	1,955	4,976	R 34,346	R 77,226	22,833	R 14,794	
1996	21,002	23	23,151	7,168	R 2,951	3,274	R 14,967	1,952	5,280	R 35,593	R 79,769	23,262	R 15,049	
1997	21,444	46	23,372	7,298	R 2,956	3,308	R 15,127	1,828	5,552	R 36,069	R 80,932	23,477	R 15,231	
1998	21,583	67	22,912	7,352	R 2,809	3,357	R 15,559	2,036	5,611	R 36,724	R 81,286	23,016	R 15,674	
1999	21,582	58	22,925	7,587	R 3,193	3,462	R 15,889	1,905	5,701	R 37,737	R 82,302	23,026	R 16,008	
2000	22,576	65	23,815	7,927	R 3,216	3,580	R 15,991	2,091	5,352	R 38,157	R 84,613	23,907	R 16,127	
2001	21,906	29	22,748	8,170	R 2,895	3,426	R 16,201	1,861	5,534	R 38,088	R 82,771	22,836	R 16,345	
2002	21,903	61	23,514	8,020	R 3,006	3,340	R 16,619	1,605	5,532	R 38,122	R 83,599	23,582	R 16,790	
2003	22,323	51	22,823	8,341	R 2,905	3,265	R 16,715	1,772	5,715	R 38,713	R 83,909	22,891	R 16,949	
2004	22,464	138	22,927	8,642	R 2,976	3,383	R 17,023	1,990	6,136	R 40,148	R 85,678	22,988	R 17,316	
2005	22,793	44	22,567	8,745	R 2,812	3,475	R 17,022	2,111	6,062	R 40,227	R 85,632	22,632	R 17,358	
2006	22,444	61	22,225	8,831	R 2,768	3,379	R 17,058	1,581	6,127	R 39,743	R 84,474	22,293	R 17,511	
2007	22,748	25	23,671	8,858	R 2,835	3,358	R 16,859	1,659	5,815	R 39,384	R 85,828	23,735	R 17,428	
2008	22,383	41	23,836	8,346	R 2,656	3,193	R 15,999	1,432	5,165	R 36,792	R 83,051	23,898	R 16,799	
2009	19,691	-24	23,421	R 7,657	R 2,707	2,883	R 15,801	1,173	4,618	R 34,839	R 77,927	23,487	R 16,711	
2010	20,828	-6	24,568	R 8,011	R 2,885	2,963	R 15,570	1,228	4,713	R 35,369	R 80,759	24,634	R 16,632	
2011	19,664	11	24,954	R 8,211	R 2,799	2,950	R 15,110	1,058	4,611	R 34,739	R 79,368	25,015	R 16,175	
2012	17,381	4	26,076	R 7,897	R 2,893	2,901	R 15,022	849	4,393	R 33,954	R 77,415	26,138	R 16,085	
2013	18,039	-17	26,789	R 8,051	R 3,166	2,969	R 15,240	731	4,455	R 34,612	R 79,422	26,845	R 16,332	
2014	17,997	-22	27,377	R 8,492	R 3,066	3,042	R 15,361	590	4,315	R 34,867	R 80,219	27,439	R 16,473	
2015	15,549	-18	28,180	R 8,403	R 3,224	3,204	R 15,788	595	4,381	R 35,596	R 79,306	28,241	R 16,941	
2016	14,227	-19	R 28,393	R 8,170	R 3,178	3,350	R 16,051	751	4,433	R 35,932	R 78,532	R 28,453	R 17,238	
2017	13,840	-29	28,042	8,263	3,280	3,481	16,002	784	4,451	36,262	78,115	28,111	17,201	

<sup>a</sup> Supplemental gaseous fuels (SGF) and fuel ethanol are consumed with natural gas and motor gasoline, respectively. In this table, natural gas excluding SGF and motor gasoline excluding fuel ethanol are presented so that a fossil fuel total can be calculated. Natural gas including SGF and motor gasoline including fuel ethanol are presented separately for reference.

<sup>b</sup> Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

<sup>c</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 "Other Petroleum."

<sup>d</sup> Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.5 and greater than -0.5 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

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 CT2. Primary Energy Consumption Estimates, Selected Years, 1960-2017, United States (Continued)**  
(Trillion Btu)

Year	Nuclear Electric Power	Renewable Energy									Electricity Net Imports <sup>k</sup>	Total <sup>f</sup>
		Hydro-electric Power <sup>e,f</sup>	Biomass				Geo-thermal <sup>f</sup>	Solar <sup>f,j</sup>	Wind	Total <sup>f</sup>		
			Wood and Waste <sup>f,g</sup>	Fuel Ethanol <sup>h</sup>	Losses and Co-products <sup>i</sup>	Total <sup>f</sup>						
1960	6	1,608	1,320	NA	NA	1,320	(s)	NA	NA	2,928	15	R 45,034
1965	43	2,059	1,335	NA	NA	1,335	2	NA	NA	3,396	(s)	R 53,966
1970	239	2,634	1,431	NA	NA	1,431	6	NA	NA	4,070	7	R 67,720
1971	413	2,824	1,432	NA	NA	1,432	6	NA	NA	4,262	12	R 69,164
1972	584	2,864	1,503	NA	NA	1,503	15	NA	NA	4,382	26	R 72,677
1973	910	2,861	1,529	NA	NA	1,529	20	NA	NA	4,411	49	R 75,724
1974	1,272	3,177	1,540	NA	NA	1,540	26	NA	NA	4,742	43	R 73,915
1975	1,900	3,155	1,499	NA	NA	1,499	34	NA	NA	4,687	21	R 71,953
1976	2,111	2,976	1,713	NA	NA	1,713	38	NA	NA	4,727	29	R 75,967
1977	2,702	2,333	1,838	NA	NA	1,838	37	NA	NA	4,209	59	R 77,947
1978	3,024	2,937	2,038	NA	NA	2,038	31	NA	NA	5,005	67	R 79,978
1979	2,776	2,931	2,152	NA	NA	2,152	40	NA	NA	5,123	69	R 80,836
1980	2,739	2,900	2,472	NA	NA	2,472	53	NA	NA	5,425	71	R 78,048
1981	3,008	2,758	2,587	7	6	2,600	59	NA	NA	5,417	113	R 76,094
1982	3,131	3,266	2,630	19	16	2,665	51	NA	NA	5,981	100	R 73,006
1983	3,203	3,527	2,841	34	29	2,904	64	NA	(s)	6,496	121	R 72,879
1984	3,553	3,386	2,894	42	35	2,972	81	(s)	(s)	6,438	135	R 76,511
1985	4,076	2,970	2,923	51	42	3,016	97	(s)	(s)	6,084	140	R 76,407
1986	4,380	3,071	2,825	59	48	2,932	108	(s)	(s)	6,111	122	R 76,592
1987	4,754	2,635	2,755	68	55	2,878	112	(s)	(s)	5,624	158	R 78,960
1988	5,587	2,334	2,892	69	55	3,016	106	(s)	(s)	5,457	108	R 82,711
1989	5,602	2,837	3,034	70	56	3,159	162	54	22	6,235	37	R 84,732
1990	6,104	3,046	2,626	62	49	2,737	171	59	29	6,042	8	R 84,455
1991	6,422	3,016	2,654	72	56	2,782	178	62	31	6,068	67	R 84,379
1992	6,479	2,617	2,787	81	64	2,932	179	63	30	5,821	87	R 85,732
1993	6,410	2,892	2,737	95	74	2,906	186	65	31	6,079	95	R 87,295
1994	6,694	2,683	2,839	106	82	3,028	173	67	36	5,987	153	R 89,011
1995	7,075	3,205	2,901	114	86	3,101	152	68	33	6,559	134	R 90,995
1996	7,087	3,590	3,014	82	61	3,157	163	69	33	7,012	137	R 94,005
1997	6,597	3,640	2,919	104	80	3,103	167	68	34	7,012	116	R 94,656
1998	7,068	3,297	2,726	115	86	2,927	168	67	31	6,491	88	R 94,933
1999	7,610	3,268	2,754	119	90	2,963	172	66	46	6,515	99	R 96,526
2000	7,862	2,811	2,773	137	99	3,008	164	63	57	6,104	115	R 98,695
2001	8,029	2,242	2,374	144	108	2,625	164	62	70	5,163	75	R 96,038
2002	8,145	2,689	2,397	171	130	2,699	171	60	105	5,724	72	R 97,540
2003	7,960	2,793	2,403	233	168	2,805	173	58	113	5,942	22	R 97,833
2004	8,223	2,688	2,510	293	201	3,005	178	58	142	6,071	39	R 100,010
2005	8,161	2,703	2,538	335	227	3,101	181	58	178	6,220	85	R 100,098
2006	8,215	2,869	2,496	453	280	3,228	181	61	264	6,603	63	R 99,354
2007	8,459	2,446	2,502	569	368	3,439	186	R 66	341	6,477	107	R 100,870
2008	8,426	2,511	2,494	800	518	3,811	192	74	546	R 7,135	112	R 98,725
2009	8,355	2,669	2,387	910	602	3,898	200	78	721	7,566	116	R 93,965
2010	8,434	2,539	R 2,685	1,061	726	R 4,472	208	R 91	923	R 8,233	89	R 97,516
2011	8,269	3,103	R 2,675	1,065	754	R 4,494	212	R 112	1,168	R 9,089	127	R 96,853
2012	8,062	2,629	R 2,618	1,064	709	R 4,391	212	R 159	1,340	R 8,730	161	R 94,368
2013	8,244	2,562	R 2,835	1,092	707	R 4,633	214	225	1,601	R 9,236	197	R 97,099
2014	8,338	2,467	R 2,917	1,111	755	R 4,783	214	337	1,728	R 9,529	182	R 98,267
2015	8,337	2,321	R 2,830	1,153	774	R 4,757	212	R 427	1,777	R 9,494	227	R 97,364
2016	8,427	2,472	R 2,733	1,187	798	R 4,718	210	R 570	2,096	R 10,065	206	R 97,230
2017	8,419	2,767	2,781	1,199	819	4,798	210	777	2,343	10,895	192	97,622

<sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

<sup>f</sup> There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

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

<sup>h</sup> Excludes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

<sup>i</sup> Losses and co-products from the production of fuel ethanol.

<sup>j</sup> Solar thermal and photovoltaic energy.

<sup>k</sup> Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatt-hours by 3,412 Btu per kilowatt-hour.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.5 and greater than -0.5 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

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