

**UNITED STATES** Table CT3. Total End-Use Energy Consumption Estimates, Selected Years, 1960-2017, United States

Year	Coal	Net Imports-Coal Coke	Natural Gas <sup>a</sup>	Petroleum							Hydro-electric Power <sup>f,g</sup>	Biomass		Geothermal <sup>g</sup>	Solar <sup>g,j</sup>	Electricity Retail Sales	Net Energy <sup>g,k</sup>	Electrical System Energy Losses <sup>l</sup>	Total <sup>g,k</sup>
				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		Wood and Waste <sup>g,h</sup>	Losses and Co-products <sup>i</sup>			Billions of Kilowatt-hours			
																Million Short Tons			
1960	221	(s)	10,242	681	227	136	1,453	475	525	3,498	4	--	--	--	688	--	--	--	
1970	203	-2	17,208	903	447	353	2,111	493	719	5,026	3	--	--	--	1,392	--	--	--	
1980	133	-1	16,196	1,022	582	389	2,408	527	894	5,821	3	--	--	--	2,094	--	--	--	
1990	122	(s)	15,929	1,086	622	556	2,641	264	826	5,994	3	--	--	--	2,713	--	--	--	
2000	98	3	18,127	1,332	891	631	3,101	194	876	7,026	4	--	--	--	3,421	--	--	--	
2001	96	1	16,896	1,375	803	604	3,143	137	904	6,966	3	--	--	--	3,394	--	--	--	
2002	89	2	17,355	1,356	838	589	3,229	151	894	7,057	4	--	--	--	3,465	--	--	--	
2003	90	2	17,141	1,406	805	576	3,261	144	926	7,117	4	--	--	--	3,494	--	--	--	
2004	91	6	16,939	1,466	829	597	3,333	177	991	7,392	3	--	--	--	3,547	--	--	--	
2005	88	2	16,145	1,483	783	613	3,343	196	974	7,393	3	--	--	--	3,661	--	--	--	
2006	86	2	15,477	1,509	779	596	3,377	194	990	7,445	3	--	--	--	3,670	--	--	--	
2007	83	1	16,262	1,516	800	592	3,389	201	943	7,442	2	--	--	--	3,765	--	--	--	
2008	80	2	16,609	1,431	748	563	3,290	189	837	7,060	2	--	--	--	3,734	--	--	--	
2009	64	-1	16,038	1,313	776	509	3,284	158	748	6,788	2	--	--	--	3,597	--	--	--	
2010	73	(s)	16,700	1,373	827	523	3,282	171	763	6,939	2	--	--	--	3,755	--	--	--	
2011	70	(s)	16,904	1,412	818	520	3,195	153	745	6,844	2	--	--	--	3,750	--	--	--	
2012	66	(s)	16,428	1,360	841	512	3,178	123	717	6,730	2	--	--	--	3,695	--	--	--	
2013	66	-1	17,964	1,387	913	524	3,228	104	724	6,880	4	--	--	--	3,725	--	--	--	
2014	66	-1	18,447	1,459	891	537	3,256	79	699	6,922	1	--	--	--	3,765	--	--	--	
2015	60	-1	17,630	1,446	931	565	3,350	80	711	7,083	1	--	--	--	3,759	--	--	--	
2016	53	-1	<sup>R</sup> 17,459	1,410	928	591	3,410	108	717	7,164	1	--	--	--	3,762	--	--	--	
2017	52	-1	17,860	1,426	965	614	3,404	114	725	7,248	2	--	--	--	3,723	--	--	--	

**Trillion Btu**

1960	5,604	-6	10,600	3,969	<sup>R</sup> 866	739	7,631	2,987	3,129	<sup>R</sup> 19,321	39	1,318	NA	NA	NA	2,348	<sup>R</sup> 39,224	5,809	<sup>R</sup> 45,034
1970	5,041	-58	17,645	5,260	<sup>R</sup> 1,667	1,973	11,091	3,099	4,293	<sup>R</sup> 27,383	34	1,427	NA	NA	NA	4,751	<sup>R</sup> 56,223	11,497	<sup>R</sup> 67,720
1980	3,303	-35	16,580	5,952	<sup>R</sup> 2,135	2,179	12,648	3,312	5,299	<sup>R</sup> 31,526	33	2,467	NA	NA	NA	7,146	<sup>R</sup> 60,870	17,178	<sup>R</sup> 78,048
1990	2,909	5	16,419	6,326	<sup>R</sup> 2,259	3,129	13,872	1,657	4,969	<sup>R</sup> 32,211	32	2,310	49	10	55	9,255	<sup>R</sup> 63,200	21,255	<sup>R</sup> 84,455
2000	2,356	65	18,590	7,753	<sup>R</sup> 3,216	3,580	<sup>R</sup> 16,127	1,220	5,254	<sup>R</sup> 37,149	43	2,320	99	21	58	11,674	<sup>R</sup> 72,290	26,405	<sup>R</sup> 98,695
2001	2,293	29	17,340	8,000	<sup>R</sup> 2,895	3,426	<sup>R</sup> 16,345	859	5,431	<sup>R</sup> 36,955	33	2,037	108	22	56	11,582	<sup>R</sup> 70,374	25,663	<sup>R</sup> 96,038
2002	2,120	61	17,793	7,892	<sup>R</sup> 3,006	3,340	<sup>R</sup> 16,790	947	5,356	<sup>R</sup> 37,332	39	2,017	130	24	54	11,824	<sup>R</sup> 71,330	26,210	<sup>R</sup> 97,540
2003	2,139	51	17,632	8,180	<sup>R</sup> 2,905	3,265	<sup>R</sup> 16,949	902	5,540	<sup>R</sup> 37,742	43	2,011	168	27	53	11,921	<sup>R</sup> 71,722	26,111	<sup>R</sup> 97,833
2004	2,161	138	17,380	8,530	<sup>R</sup> 2,976	3,383	<sup>R</sup> 17,316	1,111	5,925	<sup>R</sup> 39,241	34	2,127	201	30	53	12,104	<sup>R</sup> 73,409	26,601	<sup>R</sup> 100,010
2005	2,058	44	16,596	8,630	<sup>R</sup> 2,812	3,475	<sup>R</sup> 17,358	1,235	5,831	<sup>R</sup> 39,340	33	2,137	227	34	52	12,491	<sup>R</sup> 72,954	27,144	<sup>R</sup> 100,098
2006	1,984	61	15,899	8,757	<sup>R</sup> 2,768	3,379	<sup>R</sup> 17,511	1,220	5,924	<sup>R</sup> 39,559	30	2,088	280	37	56	12,522	<sup>R</sup> 72,453	26,902	<sup>R</sup> 99,354
2007	1,943	25	16,707	8,770	<sup>R</sup> 2,835	3,358	<sup>R</sup> 17,428	1,262	5,653	<sup>R</sup> 39,305	16	2,083	368	41	<sup>R</sup> 60	12,845	<sup>R</sup> 73,334	27,536	<sup>R</sup> 100,870
2008	1,872	41	17,049	8,274	<sup>R</sup> 2,656	3,193	<sup>R</sup> 16,799	1,191	5,019	<sup>R</sup> 37,132	17	2,063	518	46	<sup>R</sup> 66	12,740	<sup>R</sup> 71,486	27,239	<sup>R</sup> 98,725
2009	1,468	-24	16,443	<sup>R</sup> 7,587	<sup>R</sup> 2,707	2,883	<sup>R</sup> 16,711	992	4,486	<sup>R</sup> 35,366	19	1,949	602	54	69	12,272	<sup>R</sup> 68,156	25,809	<sup>R</sup> 93,965
2010	1,695	-6	17,083	<sup>R</sup> 7,931	<sup>R</sup> 2,885	2,963	<sup>R</sup> 16,632	1,074	4,576	<sup>R</sup> 36,060	17	<sup>R</sup> 2,225	726	60	<sup>R</sup> 80	12,812	<sup>R</sup> 70,690	26,826	<sup>R</sup> 97,516
2011	1,628	11	17,281	<sup>R</sup> 8,148	<sup>R</sup> 2,799	2,950	<sup>R</sup> 16,175	965	4,472	<sup>R</sup> 35,509	18	<sup>R</sup> 2,238	754	64	<sup>R</sup> 96	12,794	<sup>R</sup> 70,336	26,516	<sup>R</sup> 96,853
2012	1,560	4	16,826	<sup>R</sup> 7,845	<sup>R</sup> 2,893	2,901	<sup>R</sup> 16,085	772	4,308	<sup>R</sup> 34,804	23	<sup>R</sup> 2,165	709	64	<sup>R</sup> 119	12,606	<sup>R</sup> 68,822	25,545	<sup>R</sup> 94,368
2013	1,588	-17	18,447	<sup>R</sup> 7,996	<sup>R</sup> 3,166	2,969	<sup>R</sup> 16,332	654	4,332	<sup>R</sup> 35,448	33	<sup>R</sup> 2,365	707	64	141	12,709	<sup>R</sup> 71,435	25,665	<sup>R</sup> 97,099
2014	1,569	-22	19,054	<sup>R</sup> 8,410	<sup>R</sup> 3,066	3,042	<sup>R</sup> 16,473	495	4,197	<sup>R</sup> 35,683	13	<sup>R</sup> 2,387	755	64	<sup>R</sup> 173	12,845	<sup>R</sup> 72,465	25,803	<sup>R</sup> 98,267
2015	1,411	-18	18,296	<sup>R</sup> 8,332	<sup>R</sup> 3,224	3,204	<sup>R</sup> 16,941	501	4,270	<sup>R</sup> 36,473	13	<sup>R</sup> 2,305	774	64	<sup>R</sup> 199	12,826	<sup>R</sup> 72,288	25,076	<sup>R</sup> 97,364
2016	1,230	-19	<sup>R</sup> 18,128	<sup>R</sup> 8,115	<sup>R</sup> 3,178	3,350	<sup>R</sup> 17,238	680	4,315	<sup>R</sup> 36,875	14	<sup>R</sup> 2,228	798	64	<sup>R</sup> 242	12,838	<sup>R</sup> 72,346	<sup>R</sup> 24,884	<sup>R</sup> 97,230
2017	1,217	-29	18,533	8,208	3,280	3,481	17,201	718	4,354	37,243	15	2,271	819	64	291	12,704	73,069	24,552	97,622

<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, 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> Beginning in 1993, includes fuel ethanol blended into motor gasoline.  
<sup>e</sup> Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.  
<sup>f</sup> Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.  
<sup>g</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>h</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.  
<sup>i</sup> Losses and co-products from the production of fuel ethanol.  
<sup>j</sup> Solar thermal and photovoltaic energy.

<sup>k</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors.  
<sup>l</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.  
 -- = Not applicable. NA = Not available. R = Revised data. (s) = Value less than +0.5 and greater than -0.5.  
 Notes: Total end-use consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. 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.