

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, United States

Year	Coal	Net imports of coal coke	Natural gas ^a	Petroleum							Nuclear electric power	Hydro- electric power ^g	Wind	Fuel ethanol ^h	Biodiesel
				Distillate fuel oil ^b	HGL ^c	Jet fuel ^d	Motor gasoline ^e	Residual fuel oil	Other ^f	Total					
	Million short tons	Billion cubic feet	Million barrels							Billion kilowatthours			Million barrels		
1960	398	(s)	11,967	685	227	136	1,453	559	525	3,586	1	149	0	NA	NA
1965	472	-1	15,280	776	307	220	1,676	587	636	4,202	4	197	0	NA	NA
1970	523	-2	21,139	927	447	353	2,111	804	722	5,364	22	251	0	NA	NA
1971	502	-1	21,793	971	457	369	2,195	838	722	5,553	38	270	0	NA	NA
1972	524	-1	22,101	1,066	520	382	2,334	926	762	5,990	54	276	0	NA	NA
1973	563	(s)	22,049	1,129	531	387	2,436	1,030	805	6,317	83	275	0	NA	NA
1974	558	2	21,223	1,076	519	363	2,386	963	771	6,078	114	304	0	NA	NA
1975	563	1	19,538	1,041	493	365	2,436	899	723	5,958	173	303	0	NA	NA
1976	604	(s)	19,946	1,147	515	361	2,554	1,025	789	6,391	191	287	0	NA	NA
1977	625	1	19,521	1,223	519	379	2,620	1,121	866	6,727	251	224	0	NA	NA
1978	625	5	19,627	1,253	516	386	2,705	1,103	917	6,879	276	283	0	NA	NA
1979	681	3	20,241	1,208	607	393	2,568	1,032	949	6,757	255	283	0	NA	NA
1980	703	-1	19,877	1,049	582	391	2,408	918	895	6,242	251	279	0	NA	NA
1981	733	-1	19,404	1,032	578	368	2,404	762	717	5,861	273	264	0	2	NA
1982	707	-1	18,001	975	584	370	2,387	627	641	5,583	283	312	0	5	NA
1983	737	-1	16,835	982	561	382	2,417	519	699	5,559	294	335	(s)	10	NA
1984	791	(s)	17,951	1,041	623	430	2,449	501	711	5,756	328	324	(s)	12	NA
1985	818	-1	17,281	1,047	628	445	2,493	439	688	5,740	384	284	(s)	15	NA
1986	804	-1	16,221	1,064	594	477	2,567	518	722	5,942	414	294	(s)	17	NA
1987	837	(s)	17,211	1,086	638	506	2,630	462	761	6,083	455	253	(s)	19	NA
1988	884	2	18,030	1,143	651	530	2,685	504	812	6,326	527	226	(s)	20	NA
1989	895	1	19,119	1,152	653	544	2,675	500	800	6,324	529	272	2	20	NA
1990	904	(s)	19,174	1,103	622	556	2,641	449	831	6,201	577	293	3	18	NA
1991	899	(s)	19,562	1,066	680	537	2,623	423	771	6,101	613	289	3	21	NA
1992	908	1	20,228	1,090	712	532	2,660	401	839	6,234	619	253	3	23	NA
1993	944	1	20,790	1,110	705	536	2,729	394	817	6,291	610	280	3	27	NA
1994	951	2	21,247	1,154	759	557	2,774	373	849	6,467	640	260	3	31	NA
1995	962	2	22,207	1,170	766	553	2,843	311	826	6,469	673	311	3	33	NA
1996	1,006	1	22,609	1,232	813	578	2,888	311	880	6,701	675	347	3	24	NA
1997	1,030	2	22,737	1,254	815	583	2,926	291	927	6,796	629	356	3	30	NA
1998	1,037	3	22,246	1,263	776	592	3,012	324	937	6,905	674	323	3	33	NA
1999	1,039	2	22,405	1,304	880	611	3,077	303	950	7,125	728	320	4	34	NA
2000	1,084	3	23,333	1,362	891	631	3,101	333	893	7,211	754	276	6	39	NA
2001	1,060	1	22,239	1,404	803	604	3,143	296	922	7,172	769	217	7	41	(s)
2002	1,066	2	23,027	1,378	838	589	3,229	255	923	7,213	780	264	10	49	(s)
2003	1,095	2	22,277	1,433	805	576	3,261	282	955	7,312	764	276	11	67	(s)
2004	1,107	6	22,403	1,485	829	597	3,333	316	1,028	7,588	789	268	14	85	1
2005	1,126	2	22,014	1,503	783	613	3,343	336	1,015	7,593	782	270	18	97	2
2006	1,112	2	21,699	1,522	779	596	3,377	251	1,025	7,551	787	289	27	131	6
2007	1,128	1	23,104	1,532	800	592	3,389	264	972	7,548	806	248	34	164	8
2008	1,120	2	23,277	1,444	748	563	3,290	228	863	7,136	806	255	55	231	7
2009	997	-1	22,910	1,325	776	509	3,284	187	771	6,852	799	273	74	263	8
2010	1,049	(s)	24,087	1,387	826	523	3,282	195	787	7,000	807	260	95	306	6
2011	1,003	(s)	24,477	1,423	821	520	3,195	168	769	6,897	790	319	120	307	21
2012	889	(s)	25,538	1,369	839	512	3,178	135	732	6,765	769	276	141	307	21
2013	924	-1	26,155	1,397	913	524	3,228	116	745	6,923	789	269	168	315	34
2014	918	-1	26,593	1,474	892	537	3,256	94	720	6,972	797	259	182	320	34
2015	798	-1	27,244	1,458	931	565	3,350	95	730	7,129	797	249	191	332	36
2016	731	-1	27,444	1,419	930	591	3,410	119	738	7,207	806	268	227	342	50
2017	717	-1	27,140	1,435	963	614	3,404	125	742	7,282	805	300	254	345	47
2018	688	-1	30,149	1,513	1,100	623	3,405	116	729	7,487	807	293	273	343	45
2019	587	-1	31,143	1,498	1,146	636	3,398	100	720	7,498	809	288	296	346	43
2020	477	-1	R 30,603	1,386	1,181	394	2,946	76	673	6,656	790	285	338	302	45
2021	546	-2	R 30,646	1,450	1,256	500	3,218	115	722	7,260	R 780	252	378	332	41
2022	516	-2	32,262	1,469	1,225	569	3,216	120	704	7,304	772	255	434	334	39

^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. Excludes biofuels 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 Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

^h Includes 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.

NA = Not available.

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

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>.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. <http://www.eia.gov/state/seds/>

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, United States
(trillion Btu)

Year	Fossil fuels											Fossil fuels (as commingled)		
	Coal	Net imports of coal coke	Natural gas excluding supplemental gaseous fuels ^a	Petroleum						Total	Total	Natural gas including supplemental gaseous fuels ^a	Distillate fuel oil including biofuels ^a	Motor gasoline including fuel ethanol ^a
				Distillate fuel oil excluding biofuels ^a	HGL ^b	Jet fuel ^c	Motor gasoline excluding fuel ethanol ^a	Residual fuel oil	Other ^d					
1960	9,831	-6	12,385	3,992	866	739	7,631	3,517	3,129	19,874	42,084	12,385	3,992	7,631
1965	11,582	-18	15,779	4,519	1,170	1,215	8,806	3,691	3,784	23,184	50,527	15,779	4,519	8,806
1970	12,269	-58	21,693	5,401	1,667	1,973	11,091	5,057	4,312	29,500	63,404	21,693	5,401	11,091
1971	11,603	-33	22,365	5,658	1,700	2,061	11,532	5,269	4,322	30,541	64,477	22,365	5,658	11,532
1972	12,110	-26	22,682	6,210	1,927	2,141	12,259	5,820	4,563	32,919	67,685	22,682	6,210	12,259
1973	12,960	-7	22,595	6,575	1,959	2,167	12,797	6,477	4,831	34,806	70,354	22,595	6,575	12,797
1974	12,651	56	21,730	6,267	1,914	2,030	12,535	6,056	4,619	33,421	67,857	21,730	6,267	12,535
1975	12,656	14	19,977	6,061	1,811	2,047	12,798	5,649	4,332	32,699	65,345	19,977	6,061	12,798
1976	13,576	(s)	20,381	6,679	1,877	2,026	13,415	6,445	4,700	35,142	69,099	20,381	6,679	13,415
1977	13,907	15	19,972	7,126	1,867	2,126	13,760	7,047	5,156	37,083	70,977	19,972	7,126	13,760
1978	13,770	125	20,068	7,296	1,848	2,164	14,211	6,936	5,464	37,919	71,881	20,068	7,296	14,211
1979	15,042	63	20,688	7,039	2,214	2,204	13,487	6,485	5,646	37,076	72,868	20,688	7,039	13,487
1980	15,461	-35	20,227	6,110	2,135	2,190	12,648	5,772	5,304	34,160	69,812	20,384	6,110	12,648
1981	15,938	-16	19,750	6,014	2,098	2,062	12,631	4,791	4,289	31,884	67,555	19,928	6,014	12,631
1982	15,269	-22	18,367	5,679	2,095	2,072	12,538	3,939	3,858	30,180	63,794	18,515	5,679	12,538
1983	15,867	-16	17,212	5,720	1,983	2,141	12,697	3,260	4,196	29,997	63,061	17,348	5,720	12,697
1984	17,014	-11	18,390	6,065	2,230	2,414	12,867	3,151	4,267	30,993	66,385	18,503	6,065	12,867
1985	17,540	-13	17,714	6,098	2,252	2,497	13,098	2,759	4,164	30,867	66,107	17,843	6,098	13,098
1986	17,241	-17	16,603	6,196	2,158	2,682	13,487	3,255	4,372	32,151	65,978	16,718	6,196	13,487
1987	17,950	9	17,647	6,328	2,339	2,843	13,816	2,901	4,591	32,818	68,424	17,750	6,328	13,816
1988	18,886	40	18,460	6,655	2,373	2,982	14,105	3,170	4,888	34,174	71,559	18,563	6,655	14,105
1989	19,055	30	19,607	6,712	2,403	3,059	14,050	3,144	4,797	34,165	72,858	19,716	6,712	14,050
1990	19,168	5	19,628	6,422	2,259	3,129	13,872	2,820	4,999	33,501	72,301	19,752	6,422	13,872
1991	18,989	10	20,033	6,210	2,466	3,025	13,781	2,657	4,651	32,790	71,822	20,148	6,210	13,781
1992	19,118	35	20,724	6,351	2,595	3,001	13,973	2,518	5,031	33,469	73,345	20,844	6,351	13,973
1993	19,836	27	21,255	6,466	2,557	3,028	14,141	2,479	4,920	33,592	74,710	21,376	6,466	14,236
1994	19,904	58	21,757	6,718	2,777	3,154	14,360	2,342	5,107	34,458	76,177	21,870	6,718	14,466
1995	20,099	61	22,721	6,812	2,791	3,132	14,680	1,955	4,976	34,346	77,226	22,833	6,812	14,794
1996	21,002	23	23,151	7,168	2,951	3,274	14,967	1,952	5,280	35,593	79,769	23,262	7,168	15,049
1997	21,444	46	23,372	7,298	2,956	3,308	15,127	1,828	5,552	36,069	80,932	23,477	7,298	15,231
1998	21,583	67	22,912	7,352	2,809	3,357	15,559	2,036	5,611	36,724	81,286	23,016	7,352	15,674
1999	21,582	58	22,925	7,587	3,193	3,462	15,889	1,905	5,701	37,737	82,302	23,026	7,587	16,008
2000	22,576	65	23,815	7,927	3,216	3,580	15,991	2,091	5,352	38,157	84,613	23,907	7,927	16,127
2001	21,906	29	22,748	8,170	2,895	3,426	16,201	1,861	5,534	38,088	82,771	22,836	8,170	16,345
2002	21,903	61	23,514	8,020	3,006	3,340	16,619	1,605	5,532	38,122	83,599	23,582	8,020	16,790
2003	22,323	51	22,823	8,341	2,905	3,265	16,715	1,772	5,715	38,713	83,909	22,891	8,341	16,949
2004	22,464	138	22,927	8,642	2,976	3,383	17,023	1,990	6,136	40,148	85,678	22,988	8,642	17,316
2005	22,793	44	22,567	8,745	2,812	3,475	17,022	2,111	6,062	40,227	85,632	22,632	8,745	17,358
2006	22,444	61	22,225	8,831	2,768	3,379	17,058	1,581	6,127	39,743	84,474	22,293	8,831	17,511
2007	22,748	25	23,671	8,858	2,835	3,358	16,859	1,659	5,815	39,384	85,828	23,735	8,858	17,428
2008	22,383	41	23,836	8,346	2,656	3,193	15,999	1,432	5,165	36,792	83,051	23,898	8,346	16,799
2009	19,691	-24	23,421	7,594	2,707	2,883	15,805	1,173	4,618	34,780	77,868	23,487	7,657	16,714
2010	20,828	-6	24,568	7,966	2,881	2,963	15,570	1,228	4,713	35,321	80,711	24,634	8,011	16,632
2011	19,664	11	24,954	8,099	2,811	2,950	15,110	1,058	4,611	34,640	79,268	25,015	8,211	16,175
2012	17,381	4	26,076	7,783	2,887	2,901	15,022	849	4,393	33,833	77,294	26,138	7,897	16,085
2013	18,039	-17	26,789	7,838	3,166	2,969	15,240	731	4,455	34,398	79,209	26,845	8,051	16,332
2014	17,997	-22	27,377	8,283	3,067	3,042	15,361	590	4,315	34,658	80,010	27,439	8,492	16,473
2015	15,549	-18	28,180	8,178	3,221	3,204	15,788	595	4,381	35,368	79,079	28,241	8,403	16,941
2016	14,227	-19	28,393	7,871	3,184	3,350	16,051	751	4,506	35,712	78,313	28,453	8,170	17,238
2017	13,840	-29	28,057	7,981	3,272	3,481	16,002	784	4,523	36,044	77,912	28,126	8,263	17,201
2018	13,250	-26	31,163	8,453	3,720	3,533	16,013	729	4,446	36,892	81,280	31,236	8,715	17,209
2019	11,315	-21	32,236	8,376	3,897	3,608	15,960	631	4,395	36,867	80,397	32,300	8,626	17,166
2020	9,183	-13	R 31,655	7,721	3,956	2,234	13,834	478	4,110	32,333	R 73,158	R 31,721	7,975	14,883
2021	R 10,549	-49	R 31,688	8,243	4,230	2,835	15,095	721	4,391	35,252	R 77,440	R 31,758	8,357	16,250
2022	9,886	-56	33,334	8,358	3,957	3,228	15,073	756	4,296	35,332	78,496	33,411	8,471	16,236

^a Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."

^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 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.

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Web Page: All data are available at <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 CT2. Primary energy consumption estimates, selected years, 1960-2022, United States (continued)
(trillion Btu)

Year	Nuclear electric power	Renewable energy											Electricity net imports ^l	Total ^{f,j}
		Hydro- electric power ^{e,f}	Biomass						Geo- thermal ^f	Solar ^{f,k}	Wind	Total ^{f,j}		
			Wood and waste ^{f,g}	Fuel ethanol ^h	Biodiesel	Renewable diesel	Losses and co- products ⁱ	Total ^{f,j}						
1960	6	R 510	1,320	NA	NA	NA	NA	1,320	(s)	NA	NA	R 1,830	15	R 43,935
1965	43	R 672	1,335	NA	NA	NA	NA	1,335	R 1	NA	NA	R 2,008	(s)	R 52,578
1970	239	R 856	1,431	NA	NA	NA	NA	1,431	R 2	NA	NA	R 2,289	7	R 65,939
1971	413	R 920	1,432	NA	NA	NA	NA	1,432	R 2	NA	NA	R 2,354	12	R 67,256
1972	584	R 941	1,503	NA	NA	NA	NA	1,503	R 5	NA	NA	R 2,449	26	R 70,745
1973	910	R 940	1,529	NA	NA	NA	NA	1,529	R 7	NA	NA	R 2,476	49	R 73,788
1974	1,272	R 1,038	1,540	NA	NA	NA	NA	1,540	R 8	NA	NA	R 2,586	43	R 71,759
1975	1,900	R 1,034	1,499	NA	NA	NA	NA	1,499	R 11	NA	NA	R 2,544	21	R 69,810
1976	2,111	R 979	1,713	NA	NA	NA	NA	1,713	R 12	NA	NA	R 2,705	29	R 73,944
1977	2,702	R 763	1,838	NA	NA	NA	NA	1,838	R 12	NA	NA	R 2,613	59	R 76,351
1978	3,024	R 967	2,038	NA	NA	NA	NA	2,038	R 10	NA	NA	R 3,015	67	R 77,988
1979	2,776	R 966	2,152	NA	NA	NA	NA	2,152	R 13	NA	NA	R 3,131	69	R 78,844
1980	2,739	R 953	2,472	NA	NA	NA	NA	2,472	R 17	NA	NA	R 3,442	71	R 76,065
1981	3,008	R 900	2,587	7	NA	NA	6	2,600	R 19	NA	NA	R 3,519	113	R 74,196
1982	3,131	R 1,066	2,630	19	NA	NA	16	2,665	R 17	NA	NA	R 3,747	100	R 70,772
1983	3,203	R 1,144	2,841	34	NA	NA	29	2,904	R 21	NA	(s)	R 4,069	121	R 70,453
1984	3,553	R 1,107	2,894	42	NA	NA	35	2,972	R 26	(s)	(s)	R 4,105	135	R 74,177
1985	4,076	R 970	2,923	51	NA	NA	42	3,016	R 32	(s)	(s)	R 4,018	140	R 74,341
1986	4,380	R 1,003	2,825	59	NA	NA	48	2,932	R 35	(s)	(s)	R 3,971	122	R 74,451
1987	4,754	R 863	2,755	68	NA	NA	55	2,878	R 37	(s)	(s)	R 3,777	158	R 77,113
1988	5,587	R 771	2,892	69	NA	NA	55	3,016	R 35	(s)	(s)	R 3,823	108	R 81,077
1989	5,602	R 928	3,034	70	NA	NA	56	3,159	R 59	R 52	R 7	R 4,206	37	R 82,703
1990	6,104	R 999	2,626	62	NA	NA	49	2,737	R 63	R 56	R 10	R 3,865	8	R 82,278
1991	6,422	R 986	2,654	72	NA	NA	56	2,782	R 65	R 58	R 10	R 3,901	67	R 82,213
1992	6,479	R 864	2,787	81	NA	NA	64	2,932	R 67	R 60	R 10	R 3,932	87	R 83,843
1993	6,410	R 957	2,737	95	NA	NA	74	2,906	R 70	R 62	R 10	R 4,005	95	R 85,220
1994	6,694	R 888	2,839	106	NA	NA	82	3,028	R 66	R 63	R 12	R 4,056	153	R 87,080
1995	7,075	R 1,061	2,901	114	NA	NA	86	3,101	R 60	R 64	R 11	R 4,297	134	R 88,732
1996	7,087	R 1,185	3,014	82	NA	NA	61	3,157	R 64	R 65	R 11	R 4,481	137	R 91,474
1997	6,597	R 1,216	2,919	104	NA	NA	80	3,103	R 66	R 64	R 11	R 4,461	116	R 92,106
1998	7,068	R 1,103	2,726	115	NA	NA	86	2,927	R 68	R 63	R 10	R 4,173	88	R 92,615
1999	7,610	R 1,090	2,754	119	NA	NA	90	2,963	R 71	R 62	R 15	R 4,202	99	R 94,213
2000	7,862	R 940	2,773	137	NA	NA	99	3,008	R 69	R 59	R 19	R 4,096	115	R 96,686
2001	8,029	R 740	2,374	144	1	NA	108	2,627	R 69	R 57	R 23	R 3,516	75	R 94,391
2002	8,145	R 902	2,397	171	2	NA	130	2,701	R 73	R 55	R 35	R 3,766	72	R 95,582
2003	7,960	R 941	2,403	233	2	NA	168	2,806	R 77	R 54	R 38	R 3,916	22	R 95,807
2004	8,223	R 916	2,510	293	3	NA	201	3,008	R 80	R 53	R 48	R 4,106	39	R 98,045
2005	8,161	R 922	2,538	335	12	NA	227	3,112	R 84	R 52	R 61	R 4,231	85	R 98,109
2006	8,215	R 987	2,496	453	33	NA	280	3,262	R 86	R 54	R 91	R 4,480	63	R 97,231
2007	8,459	R 845	2,502	569	45	NA	369	3,485	R 91	R 57	R 118	R 4,595	107	R 98,988
2008	8,426	R 869	2,494	800	39	NA	519	3,851	R 97	R 61	R 189	R 5,068	112	R 96,658
2009	8,355	R 933	2,387	910	41	NA	603	3,940	R 105	R 63	R 252	R 5,293	116	R 91,632
2010	8,434	R 888	2,685	1,061	33	NA	727	4,506	R 111	R 68	R 323	R 5,896	89	R 95,130
2011	8,269	R 1,090	2,675	1,065	113	8	756	4,616	R 116	R 76	R 410	R 6,308	127	R 93,972
2012	8,062	R 943	2,618	1,064	115	10	711	4,517	R 117	R 94	R 480	R 6,150	161	R 91,667
2013	8,244	R 916	2,835	1,092	182	39	714	4,861	R 117	R 120	R 573	R 6,587	197	R 94,237
2014	8,338	R 885	2,917	1,111	181	38	766	5,016	R 118	R 161	R 620	R 6,799	182	R 95,328
2015	8,337	R 850	2,830	1,153	191	48	791	5,015	R 118	R 196	R 651	R 6,829	227	R 94,473
2016	8,427	R 914	2,730	1,187	266	57	821	5,063	R 117	R 251	R 774	R 7,120	227	R 94,087
2017	8,419	R 1,025	2,680	1,199	253	62	847	5,045	R 118	R 329	R 868	R 7,383	192	R 93,906
2018	8,438	R 998	2,749	1,197	243	57	855	5,105	R 118	R 384	R 930	R 7,535	152	R 97,404
2019	8,452	R 982	2,680	1,206	231	99	835	5,056	R 116	R 430	R 1,010	R 7,594	133	R 96,576
2020	8,251	R 973	R 2,409	1,050	239	107	735	R 4,545	R 118	R 511	R 1,153	R 7,301	161	R 88,871
2021	R 8,131	R 858	R 2,420	1,155	218	158	789	R 4,751	R 118	R 627	R 1,290	R 7,644	134	R 93,350
2022	8,046	869	2,424	1,163	212	225	808	4,857	118	765	1,482	8,091	141	94,774

^e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

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

^g Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

^h 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.

ⁱ Losses and co-products from the production of biodiesel and fuel ethanol.

^j Beginning in 2014, U.S. total includes other biofuels not allocated to the states.

^k Solar thermal and photovoltaic energy.

^l Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour.

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.

Web Page: All data are available at <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 CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, United States

Year	Coal	Net imports-coal coke	Natural gas ^a	Petroleum							Hydro-electric power ^{h,i}	Biomass		Geo-thermal ⁱ	Solar ^{i,j}	Electricity ^m	End use ^{g,i,n}	Electrical system energy losses ^o	Total ^{g,i,n}
				Distillate fuel oil ^b	HGL ^c	Jet fuel ^d	Motor gasoline ^e	Residual fuel oil	Other ^{f,g}	Total ^g		Wood and waste ^{i,j}	Losses and co-products ^k						
	Million short tons	Billion cubic feet	Million barrels							Billion kilowatt-hours						Billion kilowatt-hours			
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	--	--	--
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	826	523	3,282	171	763	6,938	2	--	--	--	--	3,755	--	--	--
2011	70	(s)	16,904	1,412	821	520	3,195	153	745	6,847	2	--	--	--	--	3,750	--	--	--
2012	66	(s)	16,428	1,360	839	512	3,178	123	717	6,728	2	--	--	--	--	3,695	--	--	--
2013	66	-1	17,964	1,387	913	524	3,228	104	724	6,879	4	--	--	--	--	3,725	--	--	--
2014	66	-1	18,447	1,459	892	537	3,256	79	699	6,922	1	--	--	--	--	3,765	--	--	--
2015	60	-1	17,630	1,446	931	565	3,350	80	711	7,082	1	--	--	--	--	3,759	--	--	--
2016	53	-1	17,459	1,410	930	591	3,410	108	717	7,166	1	--	--	--	--	3,762	--	--	--
2017	52	-1	17,874	1,426	963	614	3,404	114	725	7,246	2	--	--	--	--	3,723	--	--	--
2018	51	-1	19,550	1,499	1,100	623	3,405	103	712	7,443	1	--	--	--	--	3,859	--	--	--
2019	48	-1	19,844	1,488	1,146	636	3,398	91	707	7,466	1	--	--	--	--	3,811	--	--	--
2020	41	-1	^R 18,971	1,378	1,181	394	2,946	68	658	6,625	1	--	--	--	--	3,718	--	--	--
2021	44	-2	^R 19,417	1,439	1,256	500	3,218	106	707	7,225	1	--	--	--	--	3,806	--	--	--
2022	43	-2	20,170	1,455	1,225	569	3,216	108	689	7,262	1	--	--	--	--	3,927	--	--	--
Trillion Btu																			
1960	5,604	-6	10,600	3,969	866	739	7,631	2,987	3,129	19,321	^R 12	1,318	NA	NA	NA	2,348	^R 39,198	^R 4,737	^R 43,935
1970	5,041	-58	17,645	5,260	1,667	1,973	11,091	3,099	4,293	27,383	^R 11	1,427	NA	NA	NA	4,751	^R 56,200	^R 9,739	^R 65,939
1980	3,303	-35	16,580	5,952	2,135	2,179	12,648	3,312	5,299	31,526	^R 11	2,467	NA	NA	NA	7,146	^R 60,847	^R 15,217	^R 76,065
1990	2,909	5	16,419	6,326	2,259	3,129	13,872	1,657	4,969	32,211	^R 11	2,310	49	10	55	9,255	^R 63,178	^R 19,100	^R 82,278
2000	2,356	65	18,590	7,753	3,216	3,580	16,127	1,220	5,254	37,149	^R 14	2,320	99	21	58	11,674	^R 72,260	^R 24,426	^R 96,686
2005	2,058	44	16,596	8,630	2,812	3,475	17,358	1,235	5,831	39,340	^R 11	2,137	227	34	^R 50	12,491	^R 72,942	^R 25,167	^R 98,109
2006	1,984	61	15,899	8,757	2,768	3,379	17,511	1,220	5,924	39,559	^R 10	2,088	280	37	^R 52	12,522	^R 72,464	^R 24,768	^R 97,231
2007	1,943	25	16,707	8,770	2,835	3,358	17,428	1,262	5,653	39,305	^R 6	2,083	369	41	^R 55	12,845	^R 73,364	^R 25,623	^R 98,988
2008	1,872	41	17,049	8,274	2,656	3,193	16,799	1,191	5,019	37,132	^R 6	2,063	519	46	^R 58	12,740	^R 71,507	^R 25,151	^R 96,658
2009	1,468	-24	16,443	7,587	2,707	2,883	16,714	992	4,486	35,370	^R 7	1,949	603	54	^R 59	12,272	^R 68,138	^R 23,515	^R 91,654
2010	1,695	-6	17,083	7,931	2,881	2,963	16,632	1,074	4,576	36,056	^R 6	2,225	727	60	^R 64	12,812	^R 70,660	^R 24,481	^R 95,141
2011	1,628	11	17,281	8,148	2,811	2,950	16,175	965	4,472	35,521	^R 6	2,238	756	64	^R 70	12,794	^R 70,313	^R 23,650	^R 93,963
2012	1,560	4	16,826	7,845	2,887	2,901	16,085	772	4,308	34,798	^R 8	2,165	711	64	^R 80	12,606	^R 68,763	^R 22,894	^R 91,658
2013	1,588	-17	18,447	7,996	3,166	2,969	16,332	654	4,332	35,448	^R 12	2,365	714	64	^R 90	12,709	^R 71,367	^R 22,862	^R 94,229
2014	1,569	-22	19,054	8,410	3,067	3,042	16,473	495	4,197	35,684	^R 5	2,387	766	64	^R 102	12,845	^R 72,397	^R 22,920	^R 95,317
2015	1,411	-18	18,296	8,332	3,221	3,204	16,941	501	4,270	36,470	^R 5	2,305	791	64	^R 113	12,826	^R 72,207	^R 22,249	^R 94,456
2016	1,230	-19	18,128	8,115	3,184	3,350	17,238	680	4,388	36,954	^R 5	2,225	821	64	^R 130	12,838	^R 72,323	^R 21,737	^R 94,060
2017	1,217	-29	18,547	8,208	3,272	3,481	17,201	718	4,426	37,307	^R 6	2,171	847	64	^R 149	12,704	^R 72,923	^R 20,947	^R 93,870
2018	1,197	-26	20,284	8,634	3,720	3,533	17,209	650	4,345	38,091	^R 5	2,253	855	64	^R 168	13,168	^R 75,997	^R 21,366	^R 97,363
2019	1,133	-21	20,613	8,572	3,897	3,608	17,166	572	4,319	38,134	^R 4	2,232	835	64	^R 187	13,004	^R 76,131	^R 20,359	^R 96,490
2020	954	-13	^R 19,698	7,931	3,956	2,234	14,883	426	4,023	33,453	^R 4	^R 1,982	735	64	^R 209	12,685	^R 69,716	^R 19,058	^R 88,774
2021	1,051	-49	^R 20,146	8,297	4,230	2,835	16,250	664	4,303	36,579	^R 4	^R 1,993	789	64	^R 236	12,986	^R 73,742	^R 19,597	^R 93,340
2022	1,000	-56	20,919	8,387	3,957	3,228	16,236	680	4,211	36,700	4	2,050	808	64	277	13,400	75,104	19,657	94,761

^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. Excludes biofuels 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 Beginning in 2014, U.S. total includes other biofuels product supplied not allocated to the states.^h Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.ⁱ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.^j Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.^k Losses and co-products from the production of biodiesel and fuel ethanol.^l Solar thermal and photovoltaic energy.^m Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.ⁿ 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 End Use 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. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.^o Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

-- = Not applicable. NA = Not available. Where shown, R = Revised data. (s) = Value less than +0.5 and greater than -0.5.

Notes: · Total end-use sector 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>.Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. <http://www.eia.gov/state/seds/>

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, United States

Year			Petroleum				Biomass												
	Coal ^a	Natural gas ^b	Distillate fuel oil	HGL ^c	Kerosene	Total	Wood ^d							Geothermal ^e	Solar ^{e,f}	Electricity ^g	End use ^{e,h}	Electrical system energy losses ⁱ	Total ^{e,h}
	Million short tons	Billion cubic feet	Million barrels													Billion kilowatthours			
1960	24	3,103	269	79	62	411	--	--	--	201	--	--	--						
1965	15	3,903	294	100	59	453	--	--	--	291	--	--	--						
1970	9	4,837	322	143	53	518	--	--	--	466	--	--	--						
1975	3	4,924	310	133	28	472	--	--	--	588	--	--	--						
1980	1	4,752	226	81	19	326	--	--	--	717	--	--	--						
1985	2	4,433	188	82	28	297	--	--	--	794	--	--	--						
1990	1	4,391	168	92	11	271	--	--	--	924	--	--	--						
1995	1	4,850	155	103	13	271	--	--	--	1,043	--	--	--						
2000	(s)	4,996	155	145	17	317	--	--	--	1,192	--	--	--						
2005	(s)	4,827	147	134	15	295	--	--	--	1,359	--	--	--						
2006	(s)	4,368	122	116	12	250	--	--	--	1,352	--	--	--						
2007	(s)	4,722	125	126	8	258	--	--	--	1,392	--	--	--						
2008	0	4,892	130	144	4	278	--	--	--	1,381	--	--	--						
2009	0	4,779	101	143	5	248	--	--	--	1,365	--	--	--						
2010	0	4,782	97	138	5	240	--	--	--	1,446	--	--	--						
2011	0	4,714	90	128	3	222	--	--	--	1,423	--	--	--						
2012	0	4,150	84	103	1	188	--	--	--	1,375	--	--	--						
2013	0	4,897	85	121	1	207	--	--	--	1,395	--	--	--						
2014	0	5,087	92	127	2	222	--	--	--	1,407	--	--	--						
2015	0	4,613	96	116	2	213	--	--	--	1,404	--	--	--						
2016	0	4,347	75	112	2	190	--	--	--	1,411	--	--	--						
2017	0	4,413	75	112	1	189	--	--	--	1,379	--	--	--						
2018	0	4,998	88	132	1	221	--	--	--	1,469	--	--	--						
2019	0	5,019	82	147	2	230	--	--	--	1,440	--	--	--						
2020	0	4,674	71	129	2	202	--	--	--	1,465	--	--	--						
2021	0	R 4,717	82	126	2	210	--	--	--	1,470	--	--	--						
2022	0	4,964	83	131	1	216	--	--	--	1,509	--	--	--						
Trillion Btu																			
1960	578	3,212	1,568	305	354	2,228	627	NA	NA	687	7,332	R 1,387	R 8,719						
1965	348	4,019	1,713	386	334	2,432	468	NA	NA	993	8,261	R 1,955	R 10,215						
1970	207	4,953	1,878	549	298	2,726	401	NA	NA	1,591	9,877	R 3,262	R 13,140						
1975	62	5,024	1,807	512	161	2,479	425	NA	NA	2,007	9,998	R 4,102	R 14,100						
1980	31	4,855	1,316	312	107	1,734	846	NA	NA	2,448	9,846	R 5,214	R 15,059						
1985	39	4,566	1,092	315	159	1,566	1,010	NA	NA	2,709	9,835	R 5,508	R 15,343						
1990	31	4,519	978	353	64	1,395	582	6	55	3,153	9,694	R 6,521	R 16,215						
1995	17	4,984	904	395	74	1,374	520	7	63	3,557	10,481	R 7,273	R 17,754						
2000	11	5,104	904	556	95	1,554	420	9	R 57	4,069	11,191	R 8,523	R 19,714						
2005	8	4,958	853	514	84	1,450	428	16	R 49	4,638	R 11,527	R 9,318	R 20,845						
2006	6	4,483	709	446	66	1,222	380	18	R 51	4,611	R 10,751	R 9,088	R 19,839						
2007	8	4,849	721	484	44	1,249	420	22	R 53	4,750	R 11,333	R 9,441	R 20,773						
2008	0	5,018	750	553	21	1,325	470	26	R 56	4,711	R 11,587	R 9,263	R 20,850						
2009	0	4,899	582	548	28	1,157	504	33	R 56	4,657	R 11,287	R 8,893	R 20,180						
2010	0	4,887	561	530	29	1,120	541	37	R 59	4,933	R 11,558	R 9,420	R 20,979						
2011	0	4,817	522	493	19	1,033	524	40	R 62	4,855	R 11,315	R 8,954	R 20,269						
2012	0	4,253	482	396	8	885	438	40	R 66	4,690	R 10,356	R 8,487	R 18,844						
2013	0	5,037	491	463	8	962	572	40	R 72	4,759	R 11,426	R 8,541	R 19,967						
2014	0	5,258	532	490	14	1,035	579	40	R 79	4,801	R 11,774	R 8,568	R 20,342						
2015	0	4,794	550	446	10	1,006	513	40	R 87	4,791	R 11,215	R 8,311	R 19,526						
2016	0	4,525	434	430	14	877	445	40	R 100	4,815	R 10,787	R 8,165	R 18,952						
2017	0	4,593	431	431	8	870	430	40	R 113	4,704	R 10,734	R 7,745	R 18,479						
2018	0	5,202	506	507	8	1,021	525	40	R 123	5,013	R 11,907	R 8,144	R 20,051						
2019	0	5,232	470	563	11	1,044	546	40	R 136	4,914	R 11,898	R 7,699	R 19,597						
2020	0	4,876	407	495	11	913	R 345	40	R 151	4,997	R 11,308	R 7,513	R 18,821						
2021	0	R 4,915	473	484	9	967	R 344	40	R 169	5,017	R 11,437	R 7,580	R 19,017						
2022	0	5,176	479	504	8	991	422	40	200	5,150	11,962	7,572	19,534						

^a Beginning in 2008, 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 is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.^f Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial sectors.^g Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.^h 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 End Use and Total.ⁱ Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

-- = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

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>.Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. <http://www.eia.gov/state/seds/>

Table CT5. Commercial sector energy consumption estimates, selected years, 1960-2022, United States

Year	Coal	Natural gas ^a	Petroleum						Hydro-electric power ^{e,f}	Biomass	Geothermal ^f	Solar ^{f,h}	Electricity ⁱ	End use ^{f,j}	Electrical system energy losses ^k	Total ^{f,j}
			Distillate fuel oil	HGL ^b	Kerosene	Motor gasoline ^c	Residual fuel oil	Total ^d		Wood and waste ^{f,g}						
	Million short tons	Billion cubic feet	Million barrels						Billion kWh			Billion kWh				
1960	17	1,020	85	21	8	13	89	216	NA	--	--	NA	159	--	--	--
1965	11	1,444	92	27	9	15	103	245	NA	--	--	NA	231	--	--	--
1970	7	2,399	101	37	11	16	114	279	NA	--	--	NA	352	--	--	--
1975	7	2,508	101	34	9	17	78	238	NA	--	--	NA	468	--	--	--
1980	5	2,611	89	23	7	20	90	229	NA	--	--	NA	559	--	--	--
1985	6	2,432	108	25	6	18	36	193	NA	--	--	NA	689	--	--	--
1990	5	2,623	92	27	2	37	178	(s)	--	--	--	(s)	838	--	--	--
1995	5	3,031	82	28	4	23	140	(s)	--	--	--	(s)	953	--	--	--
2000	4	3,182	84	39	5	9	15	152	(s)	--	--	(s)	1,159	--	--	--
2005	4	2,999	77	34	4	9	18	142	(s)	--	--	(s)	1,275	--	--	--
2006	3	2,832	69	32	3	9	12	125	(s)	--	--	(s)	1,300	--	--	--
2007	3	3,013	66	32	2	12	12	123	(s)	--	--	(s)	1,336	--	--	--
2008	4	3,153	66	41	1	9	11	128	(s)	--	--	1	1,336	--	--	--
2009	3	3,119	68	36	1	10	11	127	(s)	--	--	1	1,307	--	--	--
2010	3	3,103	68	36	1	10	10	125	(s)	--	--	1	1,330	--	--	--
2011	3	3,155	68	37	1	9	9	123	(s)	--	--	2	1,328	--	--	--
2012	2	2,895	62	35	(s)	8	5	110	(s)	--	--	3	1,327	--	--	--
2013	2	3,295	59	39	(s)	8	4	111	(s)	--	--	4	1,337	--	--	--
2014	2	3,466	62	42	(s)	11	1	116	(s)	--	--	6	1,352	--	--	--
2015	2	3,202	62	39	(s)	74	1	176	(s)	--	--	6	1,361	--	--	--
2016	1	3,110	56	39	(s)	74	1	171	(s)	--	--	7	1,367	--	--	--
2017	1	3,165	56	41	(s)	71	1	169	(s)	--	--	8	1,353	--	--	--
2018	1	3,514	56	46	(s)	72	(s)	175	(s)	--	--	10	1,382	--	--	--
2019	1	3,515	57	47	(s)	73	(s)	178	(s)	--	--	12	1,361	--	--	--
2020	1	R 3,163	48	52	(s)	73	(s)	174	(s)	--	--	13	1,287	--	--	--
2021	1	R 3,289	57	56	(s)	74	1	188	(s)	--	--	16	1,328	--	--	--
2022	1	3,509	58	52	(s)	87	1	198	(s)	--	--	18	1,391	--	--	--
Trillion Btu																
1960	402	1,056	494	81	48	67	559	1,248	NA	12	NA	NA	543	3,261	R 1,096	R 4,357
1965	263	1,483	534	103	54	77	645	1,413	NA	9	NA	NA	789	3,956	R 1,552	R 5,509
1970	163	2,455	587	143	61	86	714	1,592	NA	8	NA	NA	1,201	5,418	R 2,463	R 7,881
1975	146	2,556	587	130	49	89	492	1,346	NA	8	NA	NA	1,598	5,654	R 3,266	R 8,920
1980	117	2,666	518	88	41	107	565	1,318	NA	21	NA	NA	1,906	5,994	R 4,059	R 10,053
1985	138	2,503	631	95	33	96	228	1,083	NA	24	NA	NA	2,351	6,068	R 4,781	R 10,849
1990	124	2,698	536	102	12	111	230	991	R (s)	94	3	(s)	2,860	R 6,740	R 5,942	R 12,682
1995	116	3,117	478	109	22	18	141	769	R (s)	113	5	R (s)	3,252	R 7,346	R 6,647	R 13,993
2000	86	3,261	490	151	30	44	92	807	R (s)	119	8	R (s)	3,956	R 8,216	R 8,298	R 16,514
2005	96	3,083	447	132	22	46	116	762	R (s)	104	14	R 1	4,351	R 8,396	R 8,706	R 17,102
2006	64	2,908	400	123	15	48	75	662	R (s)	101	14	R 1	4,435	R 8,172	R 8,718	R 16,890
2007	70	3,095	381	122	9	60	75	648	R (s)	101	14	R 1	4,560	R 8,477	R 9,012	R 17,489
2008	80	3,235	384	158	4	45	71	663	R (s)	107	15	R 2	4,559	R 8,648	R 8,915	R 17,563
2009	73	3,199	395	139	4	52	71	661	R (s)	109	17	R 3	4,459	R 8,506	R 8,484	R 16,990
2010	70	3,173	391	140	5	52	62	650	R (s)	108	19	R 7	4,539	R 8,548	R 8,599	R 17,146
2011	62	3,226	391	143	3	44	54	635	(s)	112	20	R 11	4,531	R 8,580	R 8,296	R 16,876
2012	44	2,968	355	136	1	39	31	562	(s)	106	20	R 11	4,528	R 8,227	R 8,143	R 16,370
2013	41	3,391	343	152	1	40	24	560	(s)	117	20	R 15	4,562	R 8,695	R 8,141	R 16,836
2014	40	3,584	356	160	2	54	8	581	(s)	123	20	R 19	4,614	R 8,967	R 8,159	R 17,126
2015	31	3,327	359	148	1	376	4	889	(s)	126	20	R 21	4,643	R 9,045	R 7,996	R 17,041
2016	24	3,235	325	150	2	375	4	857	R 1	132	20	R 23	4,665	R 8,944	R 7,837	R 16,781
2017	21	3,291	322	156	1	361	4	844	R 1	131	20	R 28	4,616	R 8,939	R 7,543	R 16,483
2018	19	3,655	322	176	1	366	3	869	R 1	131	20	R 35	4,715	R 9,432	R 7,589	R 17,021
2019	14	R 3,661	327	182	2	369	2	882	R 1	123	20	R 40	4,643	R 9,375	R 7,212	R 16,587
2020	14	R 3,296	276	201	2	371	2	852	R 1	121	20	R 46	4,393	R 8,732	R 6,567	R 15,299
2021	15	R 3,425	328	217	1	375	3	924	R 1	122	20	R 54	4,533	R 9,082	R 6,794	R 15,876
2022	15	3,655	332	202	1	440	3	978	1	158	20	63	4,746	9,622	6,923	16,545

^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 this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

^d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

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

^g Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

^h Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the residential sector.

ⁱ Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

^j 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 End Use 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 commercial utility-scale facilities.

^k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

kWh = Kilowatthours. -- = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

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. · 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>.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. <http://www.eia.gov/state/seds/>

Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, United States

Year	Coal	Net imports of coal coke	Natural gas ^a	Petroleum						Hydro-electric power ^{e,f}	Biomass		Geo-thermal ^f	Solar ^{f,i}	Electricity ^j	End use ^{f,k}	Electrical system energy losses ^l	Total ^{f,k}
				Distillate fuel oil	HGL ^b	Motor gasoline ^c	Residual fuel oil	Other ^d	Total		Wood and waste ^{f,g}	Losses and co-products ^h						
	Million short tons	Billion cubic feet	Million barrels						Billion kWh						Billion kWh			
1960	177	(s)	5,771	174	122	73	252	370	991	4	--	--	--	NA	324	--	--	--
1965	201	-1	7,112	197	172	65	252	499	1,185	3	--	--	--	NA	429	--	--	--
1970	187	-2	9,249	211	255	55	258	611	1,390	3	--	--	--	NA	571	--	--	--
1975	147	1	8,365	230	315	43	240	647	1,474	3	--	--	--	NA	688	--	--	--
1980	127	-1	8,198	227	473	30	215	827	1,772	3	--	--	--	NA	815	--	--	--
1985	116	-1	6,867	192	514	41	119	617	1,484	3	--	--	--	NA	837	--	--	--
1990	115	(s)	8,255	198	498	35	65	775	1,571	3	--	--	--	(s)	946	--	--	--
1995	106	2	9,384	194	631	38	54	760	1,677	5	--	--	--	(s)	1,013	--	--	--
2000	94	2	9,293	206	704	29	38	818	1,795	4	--	--	--	(s)	1,064	--	--	--
2005	84	2	7,713	217	608	68	45	924	1,862	3	--	--	--	(s)	1,019	--	--	--
2006	82	2	7,669	217	624	72	38	944	1,895	3	--	--	--	(s)	1,011	--	--	--
2007	79	1	7,881	217	636	59	31	902	1,845	2	--	--	--	(s)	1,028	--	--	--
2008	76	2	7,890	233	553	48	31	804	1,669	2	--	--	--	(s)	1,010	--	--	--
2009	61	-1	7,443	186	590	47	21	716	1,559	2	--	--	--	(s)	917	--	--	--
2010	70	(s)	8,112	200	650	51	19	726	1,646	2	--	--	--	(s)	971	--	--	--
2011	68	(s)	8,317	214	655	50	21	711	1,652	2	--	--	--	(s)	991	--	--	--
2012	64	(s)	8,622	220	700	50	11	688	1,669	2	--	--	--	1	986	--	--	--
2013	65	-1	8,909	219	751	52	8	694	1,724	3	--	--	--	1	985	--	--	--
2014	64	-1	9,158	237	720	42	6	667	1,672	1	--	--	--	1	998	--	--	--
2015	58	-1	9,098	203	773	51	5	678	1,710	1	--	--	--	1	987	--	--	--
2016	51	-1	9,274	200	776	52	8	685	1,722	1	--	--	--	2	977	--	--	--
2017	51	-1	9,526	209	807	52	8	R 696	1,771	1	--	--	--	2	984	--	--	--
2018	50	-1	10,112	217	919	53	7	683	1,879	1	--	--	--	3	1,001	--	--	--
2019	47	-1	10,240	209	948	53	7	678	1,895	1	--	--	--	3	1,002	--	--	--
2020	40	-1	R 10,064	185	998	53	5	632	1,874	1	--	--	--	4	959	--	--	--
2021	43	-2	R 10,225	206	1,071	52	7	R 631	R 1,967	1	--	--	--	4	1,001	--	--	--
2022	42	-2	10,420	208	1,039	55	7	600	1,908	1	--	--	--	4	1,020	--	--	--
Trillion Btu																		
1960	4,548	-6	5,973	1,016	461	381	1,584	2,278	5,720	R 12	680	NA	NA	NA	1,107	R 18,034	R 2,233	R 20,268
1965	5,134	-18	7,350	1,150	650	342	1,582	3,026	6,750	R 11	855	NA	NA	NA	1,463	R 21,545	R 2,878	R 24,424
1970	4,664	-58	9,498	1,226	930	288	1,624	3,686	7,755	R 11	1,019	NA	NA	NA	1,948	R 24,836	R 3,992	R 28,828
1975	3,658	14	8,571	1,339	1,126	223	1,509	3,895	8,092	R 11	1,063	NA	NA	NA	2,346	R 23,754	R 4,794	R 28,549
1980	3,155	-35	8,409	1,324	1,718	158	1,349	4,915	9,464	R 11	1,600	NA	NA	NA	2,781	R 25,338	R 5,921	R 31,259
1985	2,777	-13	7,096	1,119	1,813	218	748	3,759	7,656	R 11	1,875	42	NA	NA	2,855	R 22,260	R 5,803	R 28,063
1990	2,754	5	8,520	1,150	1,781	185	411	4,672	8,200	R 10	1,634	49	2	(s)	3,226	R 24,359	R 6,603	R 30,962
1995	2,500	61	9,678	1,130	2,269	200	337	4,592	8,527	R 18	1,847	86	3	(s)	3,455	R 26,136	R 7,036	R 33,172
2000	2,259	65	9,550	1,199	2,498	150	241	4,914	9,001	R 14	1,781	99	4	(s)	3,631	R 26,374	R 7,568	R 33,942
2005	1,954	44	7,930	1,262	2,138	354	281	5,539	9,575	R 11	1,604	227	4	(s)	3,477	R 24,804	R 7,092	R 31,896
2006	1,914	61	7,881	1,258	2,171	374	239	5,661	9,703	R 10	1,606	280	4	(s)	3,451	R 24,884	R 6,913	R 31,797
2007	1,864	25	8,098	1,256	2,207	302	193	5,415	9,373	R 5	1,562	369	5	(s)	3,507	R 24,782	R 7,118	R 31,901
2008	1,792	41	8,103	1,348	1,904	245	194	4,823	8,514	R 6	1,486	519	5	(s)	3,444	R 23,884	R 6,924	R 30,807
2009	1,394	-24	7,629	1,073	1,992	238	130	4,300	7,733	R 6	1,336	603	4	(s)	3,130	R 21,784	R 6,090	R 27,874
2010	1,625	-6	8,302	1,153	2,207	260	120	4,360	8,099	R 6	1,577	727	4	(s)	3,314	R 23,619	R 6,414	R 30,034
2011	1,567	11	8,502	1,235	2,172	254	135	4,275	8,071	R 6	1,602	756	4	(s)	3,382	R 23,874	R 6,354	R 30,228
2012	1,516	4	8,823	1,270	2,351	252	70	4,138	8,081	R 8	1,621	711	4	(s)	3,363	R 24,103	R 6,220	R 30,324
2013	1,547	-17	9,131	1,264	2,545	263	48	4,157	8,276	R 12	1,676	714	4	(s)	3,362	R 24,683	R 6,135	R 30,818
2014	1,529	-22	9,450	1,364	2,409	210	41	4,010	8,033	R 4	1,685	766	4	(s)	3,404	R 24,832	R 6,148	R 30,980
2015	1,380	-18	9,427	1,168	2,618	258	34	4,074	8,151	R 5	1,666	791	4	(s)	3,366	R 24,749	R 5,899	R 30,647
2016	1,206	-19	9,610	1,154	2,592	262	52	R 4,198	R 8,258	R 4	1,648	821	4	(s)	3,333	R 24,846	R 5,693	R 30,539
2017	1,197	-29	9,863	1,202	2,673	264	50	R 4,254	R 8,444	R 5	1,610	847	4	(s)	3,358	R 25,274	R 5,618	R 30,892
2018	1,178	-26	10,465	1,251	3,024	269	43	R 4,176	R 8,764	R 4	1,597	855	4	(s)	3,414	R 26,233	R 5,592	R 31,826
2019	1,117	-21	10,607	1,203	3,139	267	41	4,151	8,801	R 4	1,563	835	4	(s)	3,420	R 26,312	R 5,409	R 31,721
2020	939	-13	R 10,417	1,065	3,252	269	32	R 3,874	R 8,493	R 3	1,516	735	4	(s)	3,272	R 25,349	R 4,946	R 30,295
2021	1,037	-49	R 10,577	1,185	3,519	264	46	R 3,884	R 8,898	R 3	1,527	789	4	(s)	3,414	R 26,184	R 5,192	R 31,376
2022	986	-56	10,766	1,198	3,240	276	47	3,713	8,474	3	1,469	808	4	15	3,482	25,919	5,130	31,050

^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 this time series between 2014 and 2015 because of coverage. See 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 Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

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

^g Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

^h Losses and co-products from the production of biodiesel and fuel ethanol.

ⁱ Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the residential sector.

^j Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

^k 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 End Use 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 industrial utility-scale facilities.

^l Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

kWh = Kilowatthours. -- = Not applicable. NA = Not available.

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

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. · The continuity of these data series estimates may be affected by the 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>.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. <http://www.eia.gov/state/seds/>

Table CT7. Transportation sector energy consumption estimates, selected years, 1960-2022, United States

Year	Coal	Natural gas ^a	Petroleum								Electricity ^g	End use ^{h,i}	Electrical system energy losses ^j	Total ^{f,h,i}
			Aviation gasoline	Distillate fuel oil ^b	HGL ^c	Jet fuel ^d	Lubricants	Motor gasoline ^e	Residual fuel oil	Total ^f				
	Million short tons	Billion cubic feet	Million barrels								Billion kilowatthours			
1960	3	347	59	153	5	136	25	1,367	134	1,880	3	--	--	--
1965	1	501	44	188	8	220	24	1,596	123	2,203	3	--	--	--
1970	(s)	722	20	269	12	353	24	2,040	121	2,839	3	--	--	--
1975	(s)	583	14	364	11	362	26	2,377	113	3,267	3	--	--	--
1980	0	635	13	480	5	389	28	2,357	222	3,494	3	--	--	--
1985	0	504	10	544	8	445	26	2,434	125	3,591	4	--	--	--
1990	0	660	9	629	6	556	29	2,584	162	3,974	5	--	--	--
1995	0	705	8	720	5	553	28	2,801	145	4,259	5	--	--	--
2000	0	655	7	887	3	631	30	3,063	141	4,762	5	--	--	--
2005	0	607	7	1,043	7	613	25	3,266	133	5,094	8	--	--	--
2006	0	608	7	1,101	7	596	24	3,296	144	5,175	7	--	--	--
2007	0	646	6	1,108	6	592	25	3,319	158	5,215	8	--	--	--
2008	0	674	6	1,002	10	563	23	3,233	147	4,985	8	--	--	--
2009	0	697	5	959	7	509	21	3,227	126	4,853	8	--	--	--
2010	0	703	5	1,009	1	523	26	3,221	142	4,926	8	--	--	--
2011	0	718	5	1,040	1	520	24	3,136	123	4,850	8	--	--	--
2012	0	761	5	995	1	512	22	3,120	107	4,762	7	--	--	--
2013	0	863	4	1,023	2	524	24	3,168	92	4,837	8	--	--	--
2014	0	735	4	1,069	2	537	25	3,204	71	4,911	8	--	--	--
2015	0	718	4	1,086	3	565	27	3,225	74	4,983	8	--	--	--
2016	0	729	4	1,077	3	591	25	3,284	99	5,084	7	--	--	--
2017	0	770	4	1,086	3	614	23	3,280	106	5,117	8	--	--	--
2018	0	927	4	1,138	3	623	R 22	3,279	96	5,167	8	--	--	--
2019	0	1,071	5	1,141	3	636	22	3,272	84	5,163	8	--	--	--
2020	0	R 1,069	4	1,074	2	394	19	2,819	62	4,375	7	--	--	--
2021	0	R 1,186	4	1,095	3	500	20	3,091	98	4,859	6	--	--	--
2022	0	1,277	4	1,107	3	569	21	3,074	100	4,940	7	--	--	--
Trillion Btu														
1960	76	359	298	892	19	739	152	7,183	844	10,125	10	10,571	R 21	R 10,592
1965	16	518	222	1,093	32	1,215	149	8,386	770	11,866	10	12,410	R 20	R 12,430
1970	7	740	100	1,569	44	1,973	147	10,716	761	15,311	11	16,069	R 22	R 16,090
1975	1	595	71	2,121	43	2,029	155	12,485	711	17,615	10	18,221	R 21	R 18,241
1980	0	650	64	2,795	18	2,179	172	12,383	1,398	19,009	11	19,670	R 24	R 19,694
1985	0	521	50	3,170	30	2,497	156	12,784	786	19,472	14	20,057	R 29	R 20,086
1990	0	683	45	3,661	23	3,129	176	13,575	1,016	21,626	16	22,385	R 33	R 22,419
1995	0	728	40	4,191	18	3,132	168	14,576	911	23,036	17	23,781	R 33	R 23,814
2000	0	674	36	5,159	12	3,580	179	15,933	888	25,787	18	26,479	R 37	R 26,517
2005	0	625	35	6,068	28	3,475	151	16,958	837	27,553	26	28,215	R 51	R 28,267
2006	0	627	33	6,390	28	3,379	147	17,088	906	27,972	25	28,657	R 49	R 28,705
2007	0	665	32	6,411	22	3,358	152	17,066	994	28,034	28	28,772	R 53	R 28,825
2008	0	694	28	5,792	40	3,193	141	16,510	926	26,630	26	27,389	R 49	R 27,438
2009	0	717	27	5,538	28	2,883	127	16,425	791	25,818	27	26,561	R 48	R 26,610
2010	0	721	27	5,826	5	2,963	155	16,320	892	26,187	26	26,935	R 48	R 26,983
2011	0	736	27	6,000	5	2,950	148	15,877	776	25,783	26	26,545	R 46	R 26,590
2012	0	782	25	5,738	5	2,901	135	15,795	671	25,270	25	26,077	R 43	R 26,120
2013	0	888	22	5,898	6	2,969	143	16,030	581	25,650	26	26,564	R 44	R 26,608
2014	0	762	22	6,159	8	3,042	149	16,209	447	26,035	26	26,823	R 45	R 26,868
2015	0	747	21	6,255	10	3,204	163	16,308	463	26,424	26	27,198	R 43	R 27,241
2016	0	758	20	6,202	12	3,350	R 153	16,601	623	R 26,962	26	R 27,746	R 42	R 27,788
2017	0	801	21	6,253	12	3,481	R 141	16,576	665	R 27,150	26	R 27,976	R 40	R 28,017
2018	0	962	22	6,555	13	3,533	R 136	16,573	604	R 27,436	26	R 28,425	R 41	R 28,466
2019	0	R 1,113	23	6,572	12	3,608	R 132	16,531	529	R 27,408	26	R 28,547	R 39	R 28,586
2020	0	R 1,110	20	6,183	9	2,234	116	14,243	391	R 23,195	22	R 24,327	R 32	R 24,360
2021	0	R 1,229	22	6,310	10	2,835	R 123	15,611	615	R 25,789	22	R 27,040	R 31	R 27,071
2022	0	1,322	22	6,379	11	3,228	130	15,519	630	26,256	23	27,601	31	27,632

^a Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.^b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.^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 U.S. total includes other biofuels product supplied not allocated to the states.^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.^h There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.ⁱ For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.^j Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

-- = Not applicable.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: - Totals may not equal sum of components due to independent rounding. - The continuity of these data series estimates may be affected by the 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>.Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. <http://www.eia.gov/state/seds/>

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, United States

Year	Coal	Natural gas ^a	Petroleum				Nuclear electric power	Hydroelectric power ^d	Biomass	Geothermal ^f	Solar ^{f,g}	Wind ^f	Electricity net imports ^h	Total ^{f,i}
			Distillate fuel oil ^b	Petroleum coke	Residual fuel oil ^c	Total			Wood and waste ^{e,f}					
	Million barrels						Billion kilowatthours			Billion kilowatthours				
1960	177	1,725	4	0	84	88	1	146	--	(s)	NA	NA	5	--
1965	245	2,321	5	0	110	115	4	194	--	(s)	NA	NA	(s)	--
1970	320	3,932	24	3	311	339	22	248	--	1	NA	NA	2	--
1975	406	3,158	39	(s)	467	506	173	300	--	3	NA	NA	6	--
1980	569	3,682	29	1	391	421	251	276	--	5	NA	NA	21	--
1985	694	3,044	15	1	159	175	384	281	--	9	(s)	(s)	41	--
1990	783	3,245	17	5	185	207	577	290	--	15	(s)	3	2	--
1995	850	4,237	19	13	90	122	673	305	--	13	(s)	3	39	--
2000	986	5,206	30	16	139	185	754	271	--	14	(s)	6	34	--
2005	1,037	5,869	20	40	139	199	782	267	--	15	1	18	25	--
2006	1,027	6,222	13	36	57	105	787	286	--	15	1	27	18	--
2007	1,045	6,841	15	28	63	107	806	246	--	15	1	34	31	--
2008	1,040	6,668	13	26	38	76	806	253	--	15	1	55	33	--
2009	934	6,873	12	23	29	64	799	272	--	15	1	74	34	--
2010	975	7,387	14	24	25	62	807	258	--	15	1	95	26	--
2011	932	7,574	11	24	15	50	790	318	--	15	2	120	37	--
2012	824	9,111	9	15	12	36	769	274	--	16	4	141	47	--
2013	858	8,191	10	21	12	43	789	265	--	16	9	168	58	--
2014	852	8,146	14	21	15	50	797	258	--	16	17	181	53	--
2015	738	9,613	12	20	15	47	797	248	--	16	24	191	66	--
2016	679	9,985	10	21	11	41	806	266	--	16	35	227	67	--
2017	665	9,266	9	17	10	37	805	299	--	16	53	254	56	--
2018	637	10,599	14	18	12	44	807	291	--	16	63	272	44	--
2019	539	11,299	9	13	9	32	809	287	--	15	71	296	39	--
2020	436	^R 11,632	8	15	8	31	790	284	--	16	89	338	47	--
2021	501	^R 11,229	10	15	9	35	^R 780	250	--	16	115	378	39	--
2022	473	12,092	14	15	12	41	772	254	--	16	143	434	41	--
Trillion Btu														
1960	4,227	1,785	22	0	530	553	6	^R 498	2	(s)	NA	NA	15	^R 7,085
1965	5,821	2,408	29	0	693	722	43	^R 661	3	^R 1	NA	NA	(s)	^R 9,659
1970	7,228	4,048	141	19	1,958	2,117	239	^R 845	4	^R 2	NA	NA	7	^R 14,490
1975	8,789	3,232	226	2	2,937	3,166	1,900	^R 1,024	2	^R 11	NA	NA	21	^R 18,144
1980	12,158	3,804	169	5	2,459	2,634	2,739	^R 942	4	^R 17	NA	NA	71	^R 22,363
1985	14,586	3,157	85	7	998	1,090	4,076	^R 959	14	^R 32	(s)	(s)	140	^R 24,050
1990	16,259	3,333	97	30	1,163	1,289	6,104	^R 989	317	^R 53	^R 1	^R 10	8	^R 28,355
1995	17,465	4,327	108	81	566	755	7,075	^R 1,042	422	^R 46	^R 2	^R 11	134	^R 31,270
2000	20,220	5,318	175	99	871	1,144	7,862	^R 926	453	^R 48	^R 2	^R 19	115	^R 36,100
2005	20,735	6,036	114	231	876	1,222	8,161	^R 911	401	^R 50	^R 2	^R 61	85	^R 37,658
2006	20,460	6,394	73	203	361	637	8,215	^R 977	408	^R 50	^R 2	^R 91	63	^R 37,290
2007	20,805	7,028	89	163	397	648	8,459	^R 839	419	^R 50	^R 2	^R 118	107	^R 38,468
2008	20,511	6,849	73	146	240	459	8,426	^R 864	431	^R 51	^R 3	^R 189	112	^R 37,891
2009	18,224	7,044	70	132	181	382	8,355	^R 926	438	^R 51	^R 3	^R 252	116	^R 35,788
2010	19,133	7,550	80	137	154	370	8,434	^R 882	459	^R 52	^R 4	^R 323	89	^R 37,293
2011	18,035	7,734	64	138	93	295	8,269	^R 1,083	437	^R 52	^R 6	^R 410	127	^R 36,444
2012	15,821	9,313	52	85	77	214	8,062	^R 934	453	^R 53	^R 14	^R 480	161	^R 35,500
2013	16,450	8,398	55	123	77	255	8,244	^R 904	470	^R 54	^R 30	^R 572	197	^R 35,571
2014	16,427	8,385	82	118	95	295	8,338	^R 880	530	^R 54	^R 59	^R 619	182	^R 35,765
2015	14,138	9,945	70	112	94	276	8,337	^R 845	525	^R 54	^R 83	^R 650	227	^R 35,075
2016	12,997	10,325	55	118	71	244	8,427	^R 909	505	^R 54	^R 121	^R 774	227	^R 34,575
2017	12,622	9,578	55	97	66	218	8,419	^R 1,019	510	^R 54	^R 180	^R 867	192	^R 33,651
2018	12,053	10,952	80	101	78	260	8,438	^R 993	496	^R 54	^R 216	^R 929	152	^R 34,534
2019	10,181	11,687	54	76	59	188	8,452	^R 978	448	^R 53	^R 243	^R 1,009	133	^R 33,363
2020	8,229	12,023	44	87	53	184	8,251	^R 969	428	^R 54	^R 302	^R 1,152	161	^R 31,743
2021	^R 9,498	^R 11,612	60	88	57	205	^R 8,131	^R 854	426	^R 55	^R 391	^R 1,289	134	^R 32,583
2022	8,886	12,492	83	85	76	244	8,046	865	374	55	487	1,481	141	33,057

^a Includes supplemental gaseous fuels that are commingled with natural gas.^b Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.^c Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.^d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.^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 renewable energy sources beginning in 1989.^g Solar thermal and photovoltaic energy.^h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour.ⁱ 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 the total.

-- = Not applicable. NA = Not available.

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

Notes: · 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. · The continuity of these data series estimates may be affected by the 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>.Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. <http://www.eia.gov/state/seds/>