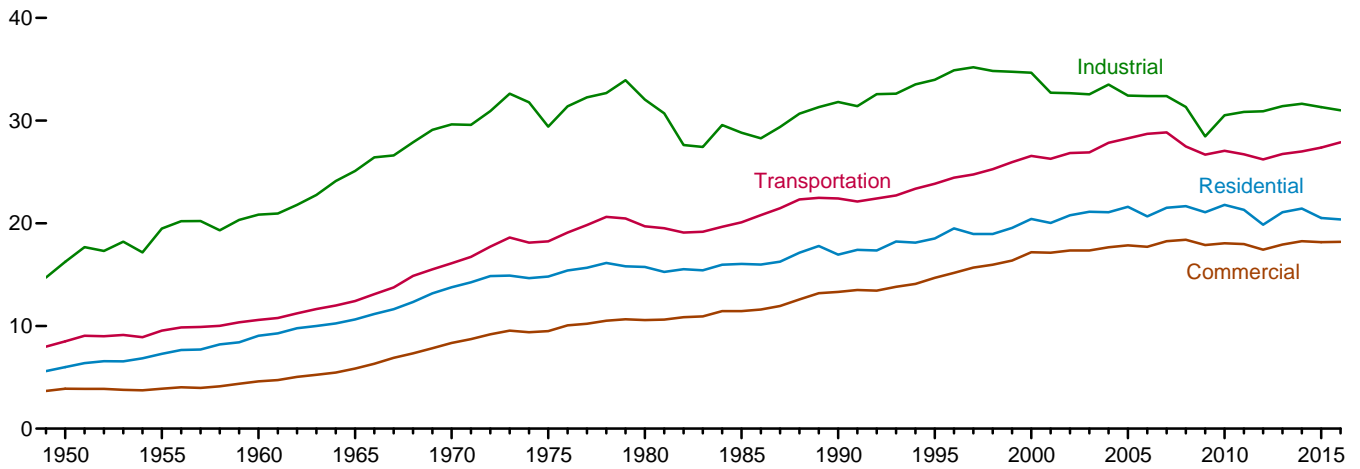


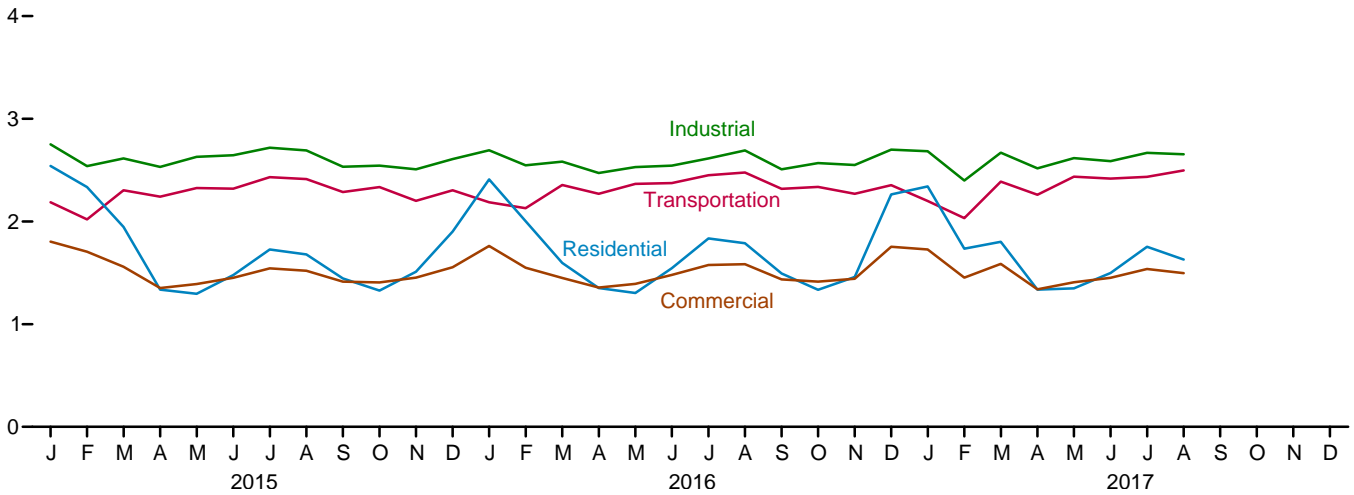
2. Energy Consumption by Sector

Figure 2.1 Energy Consumption by Sector
(Quadrillion Btu)

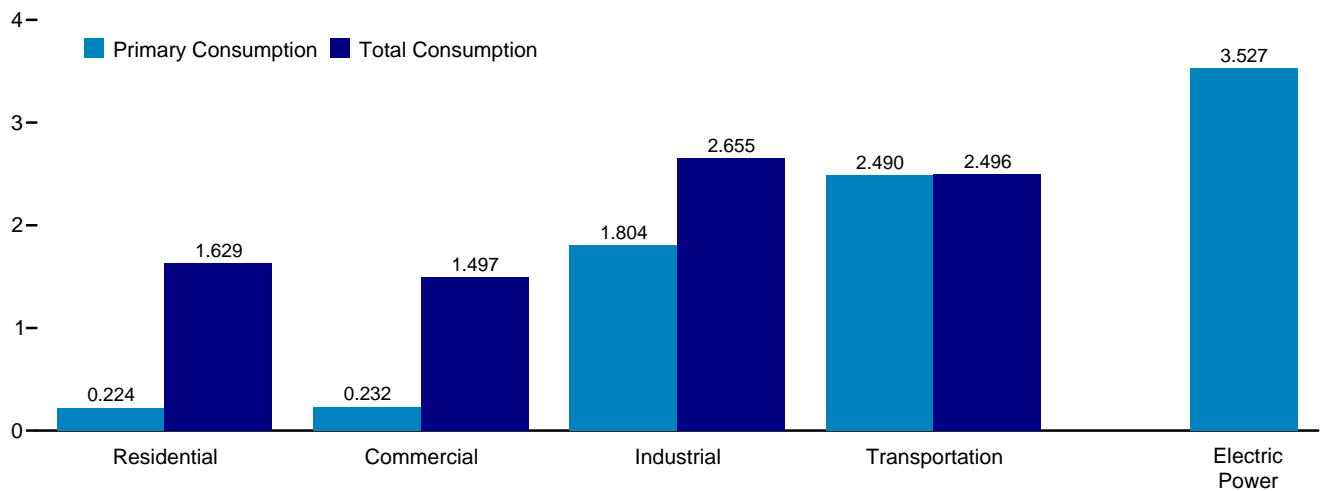
Total Consumption by End-Use Sector, 1949–2016



Total Consumption by End-Use Sector, Monthly



By Sector, August 2017



Web Page: <http://www.eia.gov/totalenergy/data/monthly/#consumption>.
Source: Table 2.1.

Table 2.1 Energy Consumption by Sector
(Trillion Btu)

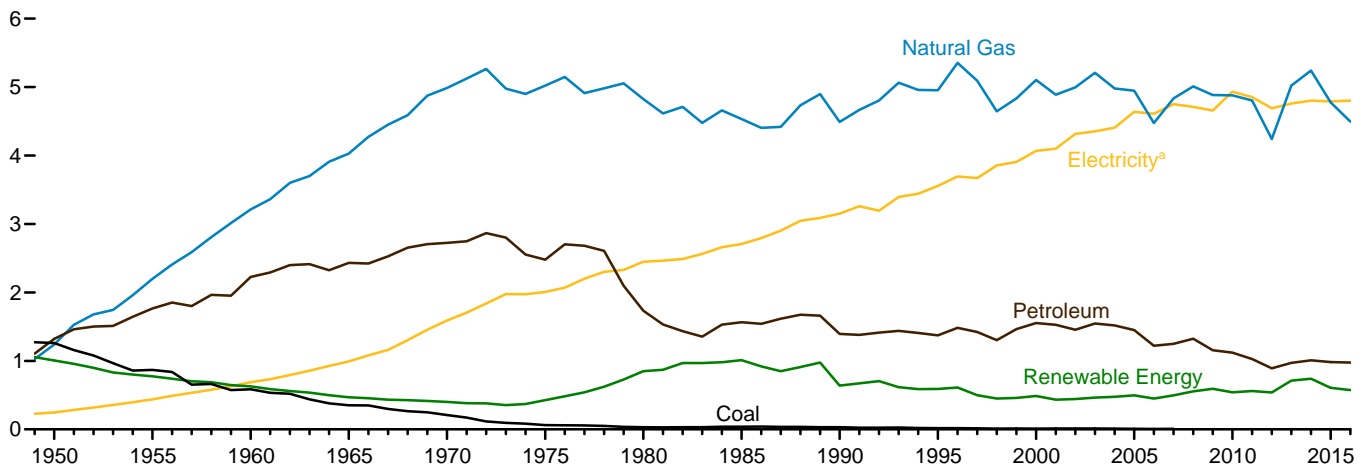
	End-Use Sectors								Electric Power Sector ^{c,d}	Balancing Item ^g	Primary Total ^h
	Residential		Commercial ^a		Industrial ^b		Transportation				
	Primary ^e	Total ^f	Primary ^e	Total ^f	Primary ^e	Total ^f	Primary ^e	Total ^f			
1950 Total	4,829	5,989	2,834	3,893	13,890	16,241	8,383	8,492	4,679	(s)	34,616
1955 Total	5,608	7,278	2,561	3,895	16,103	19,485	9,474	9,550	6,461	(s)	40,208
1960 Total	6,651	9,039	2,723	4,609	16,996	20,842	10,560	10,596	8,158	(s)	45,086
1965 Total	7,279	10,639	3,177	5,845	20,148	25,098	12,399	12,432	11,012	(s)	54,015
1970 Total	8,322	13,766	4,237	8,346	22,964	29,628	16,062	16,098	16,253	(s)	67,838
1975 Total	7,990	14,813	4,059	9,492	21,434	29,413	18,210	18,245	20,270	1	71,965
1980 Total	7,439	15,753	4,105	10,578	22,595	32,039	19,659	19,697	24,269	-1	78,067
1985 Total	7,148	16,041	3,732	11,451	19,443	28,816	20,041	20,088	26,032	-4	76,392
1990 Total	6,556	16,944	3,896	13,320	21,180	31,810	22,366	22,420	30,495	-9	84,484
1995 Total	6,934	18,517	4,100	14,690	22,718	33,970	23,796	23,851	33,479	3	91,031
2000 Total	7,156	20,421	4,278	17,175	22,823	34,662	26,495	26,555	38,062	2	98,817
2001 Total	6,864	20,038	4,085	17,137	21,793	32,719	26,219	26,282	37,215	-6	96,170
2002 Total	6,907	20,786	4,132	17,346	21,798	32,661	26,785	26,846	38,016	5	97,643
2003 Total	7,232	21,119	4,298	17,346	21,534	32,553	26,826	26,900	38,028	-1	97,918
2004 Total	6,987	21,081	4,232	17,655	22,411	33,516	27,764	27,843	38,701	-6	100,090
2005 Total	6,901	21,613	4,052	17,853	21,410	32,442	28,199	28,280	39,626	(s)	100,188
2006 Total	6,154	20,670	3,747	17,707	21,529	32,391	28,638	28,717	39,417	(s)	99,485
2007 Total	6,589	21,519	3,922	18,253	21,363	32,385	28,771	28,858	40,371	-1	101,015
2008 Total	6,889	21,668	4,100	18,402	20,528	31,334	27,404	27,486	39,969	1	98,891
2009 Total	6,633	21,077	4,055	17,887	18,756	28,466	26,605	26,687	38,069	(s)	94,118
2010 Total	6,540	21,795	4,023	18,058	20,277	30,525	26,978	27,059	39,619	7	97,444
2011 Total	6,393	21,302	4,063	17,979	20,459	30,847	26,632	26,712	39,293	8	96,847
2012 Total	5,672	19,857	3,725	17,422	20,738	30,911	26,144	26,219	38,131	2	94,412
2013 Total	6,706	21,069	4,164	17,932	21,267	31,414	26,671	26,750	38,357	-1	97,164
2014 Total	6,989	21,428	4,380	18,254	21,402	31,638	26,917	26,996	38,629	6	98,323
2015											
January	1,137	2,540	667	1,803	1,940	2,751	2,180	2,186	3,357	-1	9,280
February	1,083	2,335	639	1,706	1,763	2,539	2,012	2,020	3,103	-1	8,601
March	795	1,947	499	1,559	1,830	2,614	2,298	2,304	3,002	-2	8,422
April	444	1,336	323	1,353	1,736	2,532	2,235	2,242	2,723	-3	7,458
May	304	1,295	251	1,391	1,765	2,629	2,319	2,325	3,002	-1	7,639
June	232	1,479	216	1,452	1,751	2,645	2,313	2,319	3,383	2	7,897
July	222	1,728	219	1,543	1,814	2,718	2,425	2,431	3,741	5	8,425
August	221	1,680	223	1,520	1,800	2,692	2,406	2,413	3,655	5	8,309
September	220	1,445	221	1,414	1,705	2,533	2,281	2,287	3,251	3	7,682
October	359	1,327	307	1,407	1,732	2,544	2,330	2,336	2,886	-2	7,612
November	573	1,511	400	1,453	1,714	2,509	2,195	2,201	2,792	-2	7,672
December	778	1,902	479	1,554	1,821	2,608	2,298	2,304	2,993	-3	8,366
Total	6,367	20,520	4,442	18,158	21,371	31,315	27,291	27,368	37,890	1	97,363
2016											
January	1,063	2,410	630	1,762	1,911	2,693	2,180	2,186	3,269	4	9,056
February	861	2,003	534	1,549	1,819	2,548	2,123	2,129	2,892	(s)	8,229
March	604	1,596	408	1,450	1,831	2,583	2,349	2,355	2,794	-4	7,981
April	462	1,352	331	1,356	1,707	2,473	2,264	2,270	2,686	-3	7,448
May	324	1,303	268	1,392	1,715	2,530	2,361	2,367	2,924	-1	7,591
June	235	1,544	224	1,479	1,702	2,543	2,367	2,374	3,413	5	7,946
July	225	1,836	224	1,576	1,741	2,613	2,444	2,451	3,842	9	8,485
August	210	1,788	226	1,584	1,831	2,693	2,470	2,476	3,803	9	8,549
September	229	1,494	232	1,436	1,727	2,508	2,312	2,318	3,257	5	7,761
October	325	1,334	293	1,413	1,791	2,569	2,331	2,337	2,913	2	7,655
November	521	1,460	385	1,442	1,791	2,550	2,264	2,270	2,761	(s)	7,722
December	987	2,263	597	1,753	1,907	2,699	2,347	2,354	3,231	4	9,074
Total	6,045	20,375	4,352	18,196	21,473	31,007	27,811	27,888	37,784	30	97,496
2017											
January	1,027	2,342	614	1,727	1,913	2,683	2,193	2,200	3,205	4	8,955
February	736	1,735	471	1,453	1,690	2,399	2,027	2,033	2,696	-1	7,619
March	R 743	1,803	489	1,587	1,879	2,670	2,382	2,389	2,955	-1	8,448
April	420	1,336	313	1,339	1,753	2,517	2,255	2,261	2,712	-2	7,450
May	327	1,348	273	1,408	1,791	2,616	2,430	2,436	2,987	(s)	7,809
June	R 254	1,499	235	1,452	1,748	2,587	2,411	2,417	3,308	3	7,958
July	R 226	R 1,754	R 232	R 1,537	R 1,806	R 2,668	R 2,428	R 2,434	3,710	7	R 8,400
August	224	1,629	232	1,497	1,804	2,655	2,490	2,496	3,527	3	8,281
8-Month Total	3,958	13,446	2,850	12,000	14,384	20,795	18,615	18,666	25,099	14	64,921
2016 8-Month Total	3,982	13,832	2,845	12,148	14,257	20,676	18,558	18,609	25,622	19	65,284
2015 8-Month Total	4,438	14,340	3,036	12,327	14,398	21,119	18,188	18,240	25,966	5	66,031

^a Commercial sector, including commercial combined-heat-and-power (CHP) and commercial electricity-only plants.
^b Industrial sector, including industrial combined-heat-and-power (CHP) and industrial electricity-only plants.
^c 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.
^d Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities and independent power producers.
^e See "Primary Energy Consumption" in Glossary.
^f Total energy consumption in the end-use sectors consists of primary energy consumption, electricity retail sales, and electrical system energy losses. See Note 1, "Electrical System Energy Losses," at end of section.
^g A balancing item. The sum of primary consumption in the five energy-use sectors equals the sum of total consumption in the four end-use sectors. However, total energy consumption does not equal the sum of the sectoral components due

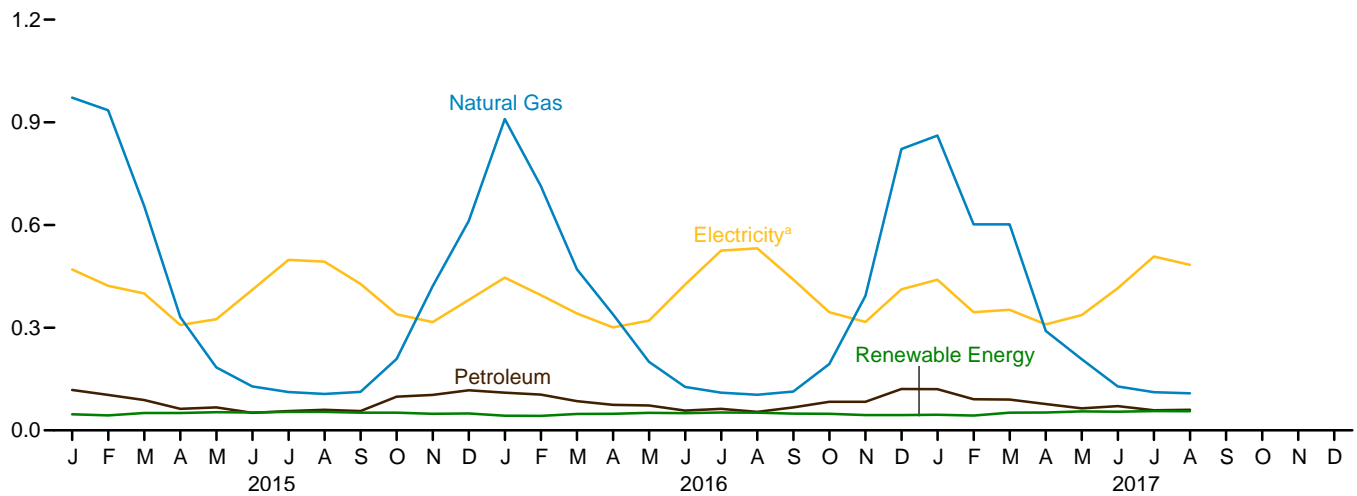
to the use of sector-specific conversion factors for coal and natural gas.
^h Primary energy consumption total. See Table 1.3.
 R=Revised. (s)=Less than 0.5 trillion Btu and greater than -0.5 trillion Btu.
 Notes: • Data are estimates, except for the electric power sector. • See Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7.
 • See Note 2, "Energy Consumption Data and Surveys," at end of section.
 • Totals may not equal sum of components due to independent rounding.
 • Geographic coverage is the 50 states and the District of Columbia.
 Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#consumption> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.
 Sources: • **End-Use Sectors:** Tables 2.2–2.5. • **Electric Power Sector:** Table 2.6. • **Balancing Item:** Calculated as primary energy total consumption minus the sum of total energy consumption in the four end-use sectors.
 • **Primary Total:** Table 1.3.

Figure 2.2 Residential Sector Energy Consumption
(Quadrillion Btu)

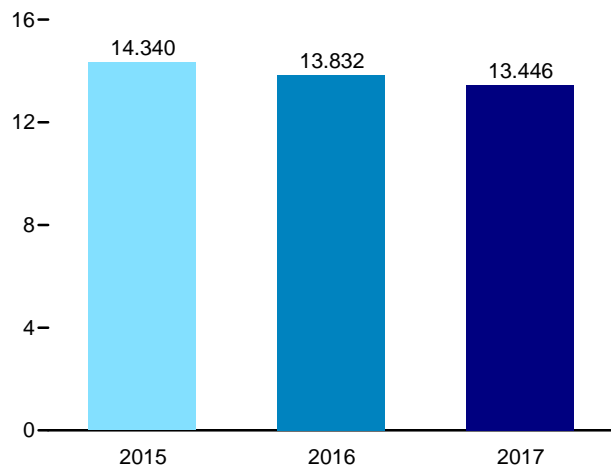
By Major Source, 1949–2016



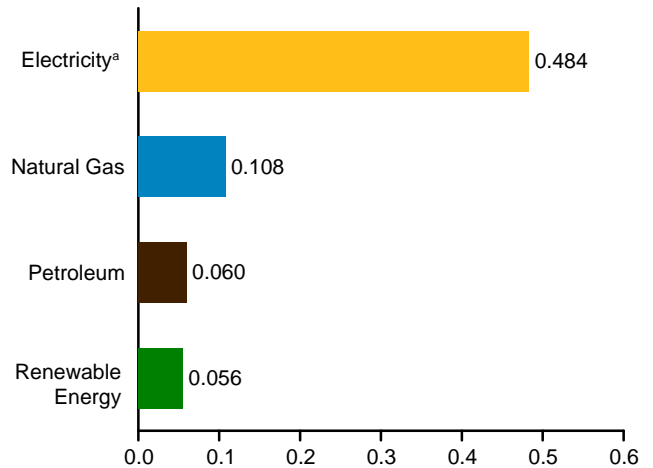
By Major Source, Monthly



Total, January–August



By Major Source, August 2017



^a Electricity retail sales.
Web Page: <http://www.eia.gov/totalenergy/data/monthly/#consumption>.
Source: Table 2.2.

Table 2.2 Residential Sector Energy Consumption
(Trillion Btu)

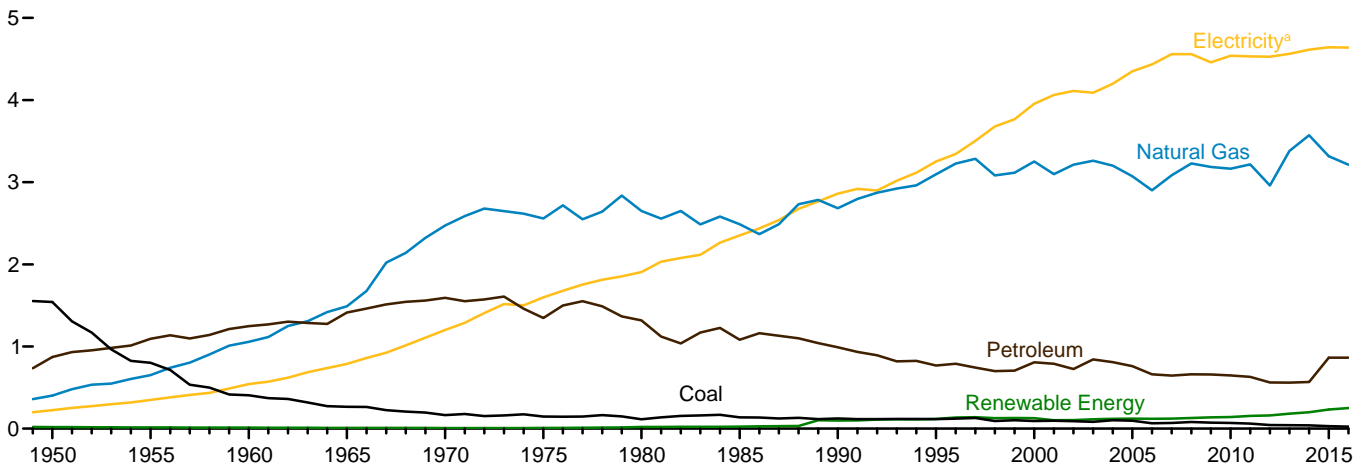
	Primary Consumption ^a									Electricity Retail Sales ^e	Electrical System Energy Losses ^f	Total
	Fossil Fuels				Renewable Energy ^b				Total Primary			
	Coal	Natural Gas ^c	Petroleum	Total	Geo-thermal	Solar ^d	Bio-mass	Total				
1950 Total	1,261	1,240	1,322	3,824	NA	NA	1,006	1,006	4,829	246	913	5,989
1955 Total	867	2,198	1,767	4,833	NA	NA	775	775	5,608	438	1,232	7,278
1960 Total	585	3,212	2,227	6,024	NA	NA	627	627	6,651	687	1,701	9,039
1965 Total	352	4,028	2,432	6,811	NA	NA	468	468	7,279	993	2,367	10,639
1970 Total	209	4,987	2,725	7,922	NA	NA	401	401	8,322	1,591	3,852	13,766
1975 Total	63	5,023	2,479	7,564	NA	NA	425	425	7,990	2,007	4,817	14,813
1980 Total	31	4,825	1,734	6,589	NA	NA	850	850	7,439	2,448	5,866	15,753
1985 Total	39	4,534	1,565	6,138	NA	NA	1,010	1,010	7,148	2,709	6,184	16,041
1990 Total	31	4,491	1,394	5,916	6	55	580	640	6,556	3,153	7,235	16,944
1995 Total	17	4,954	1,373	6,345	7	63	520	589	6,934	3,557	8,026	18,517
2000 Total	11	5,105	1,553	6,669	9	58	420	486	7,156	4,069	9,197	20,421
2001 Total	12	4,889	1,528	6,429	9	55	370	435	6,864	4,100	9,074	20,038
2002 Total	12	4,995	1,456	6,463	10	53	380	444	6,907	4,317	9,562	20,786
2003 Total	12	5,209	1,546	6,768	13	52	400	465	7,232	4,353	9,534	21,119
2004 Total	11	4,981	1,519	6,511	14	51	410	475	6,987	4,408	9,687	21,081
2005 Total	8	4,946	1,450	6,405	16	50	430	496	6,901	4,638	10,074	21,613
2006 Total	6	4,476	1,221	5,704	18	53	380	451	6,154	4,611	9,905	20,670
2007 Total	8	4,835	1,249	6,092	22	55	420	497	6,589	4,750	10,180	21,519
2008 Total	NA	5,010	1,324	6,334	26	58	470	555	6,889	4,711	10,068	21,668
2009 Total	NA	4,883	1,157	6,040	33	60	500	593	6,633	4,657	9,788	21,077
2010 Total	NA	4,878	1,121	5,999	37	65	440	541	6,540	4,933	10,321	21,795
2011 Total	NA	4,805	1,028	5,833	40	71	450	560	6,393	4,855	10,054	21,302
2012 Total	NA	4,242	891	5,133	40	79	420	539	5,672	4,690	9,496	19,857
2013 Total	NA	5,023	971	5,994	40	92	580	711	6,706	4,759	9,604	21,069
2014 Total	NA	5,242	1,008	6,250	40	109	590	739	6,989	4,801	9,638	21,428
2015 January	NA	972	118	1,090	3	6	37	47	1,137	470	933	2,540
February	NA	935	104	1,039	3	7	34	44	1,083	423	830	2,335
March	NA	656	89	744	3	10	37	51	795	400	752	1,947
April	NA	331	63	394	3	11	36	51	444	308	584	1,336
May	NA	184	67	251	3	12	37	53	304	325	667	1,295
June	NA	128	51	180	3	13	36	52	232	410	836	1,479
July	NA	112	56	168	3	13	37	54	222	498	1,007	1,728
August	NA	106	60	166	3	13	37	54	221	493	966	1,680
September	NA	112	56	169	3	12	36	52	220	428	797	1,445
October	NA	209	98	307	3	11	37	52	359	339	630	1,327
November	NA	421	104	525	3	9	36	49	573	316	622	1,511
December	NA	612	117	729	3	8	37	49	778	381	743	1,902
Total	NA	4,777	983	5,760	40	128	440	607	6,367	4,791	9,362	20,520
2016 January	NA	910	110	1,020	3	8	32	43	1,063	446	901	2,410
February	NA	714	104	818	3	10	30	42	861	395	747	2,003
March	NA	471	85	556	3	13	32	48	604	342	651	1,596
April	NA	339	75	414	3	14	31	48	462	301	589	1,352
May	NA	200	73	273	3	16	32	51	324	321	658	1,303
June	NA	127	58	184	3	17	31	50	235	426	883	1,544
July	NA	110	63	173	3	17	32	52	225	525	1,085	1,836
August	NA	104	54	158	3	17	32	52	210	532	1,046	1,788
September	NA	113	67	181	3	15	31	49	229	441	824	1,494
October	NA	194	83	277	3	13	32	48	325	345	664	1,334
November	NA	393	84	476	3	11	31	45	521	317	622	1,460
December	NA	822	121	943	3	10	32	45	987	412	863	2,263
Total	NA	4,496	976	5,472	40	161	373	573	6,045	4,802	9,529	20,375
2017 January	NA	861	121	982	3	10	32	46	1,027	440	874	2,342
February	NA	602	91	693	3	11	29	43	736	345	654	1,735
March	NA	602	90	692	3	16	32	51	R 743	352	707	1,603
April	NA	290	77	367	3	18	31	52	420	310	607	1,336
May	NA	208	64	272	3	19	32	55	327	337	684	1,348
June	NA	128	71	199	3	20	31	54	R 254	416	830	1,499
July	NA	111	R 59	R 170	3	20	32	56	R 226	508	1,020	R 1,754
August	NA	108	60	169	3	20	32	56	224	484	921	1,629
8-Month Total	NA	2,911	633	3,544	26	134	254	414	3,958	3,191	6,297	13,446
2016 8-Month Total	NA	2,975	621	3,596	26	112	248	386	3,982	3,287	6,562	13,832
2015 8-Month Total	NA	3,424	607	4,031	26	87	293	406	4,438	3,327	6,575	14,340

^a See "Primary Energy Consumption" in Glossary.
^b See Table 10.2a for notes on series components.
^c Natural gas only; excludes the estimated portion of supplemental gaseous fuels. See Note 3, "Supplemental Gaseous Fuels," at end of Section 4.
^d Distributed (small-scale) solar photovoltaic (PV) electricity generation in the residential sector and distributed solar thermal energy in the residential, commercial, and industrial sectors. See Tables 10.2a and 10.5.
^e Electricity retail sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
^f Total losses are calculated as the primary energy consumed by the electric power sector minus the energy content of electricity retail sales. Total losses are allocated to the end-use sectors in proportion to each sector's share of total

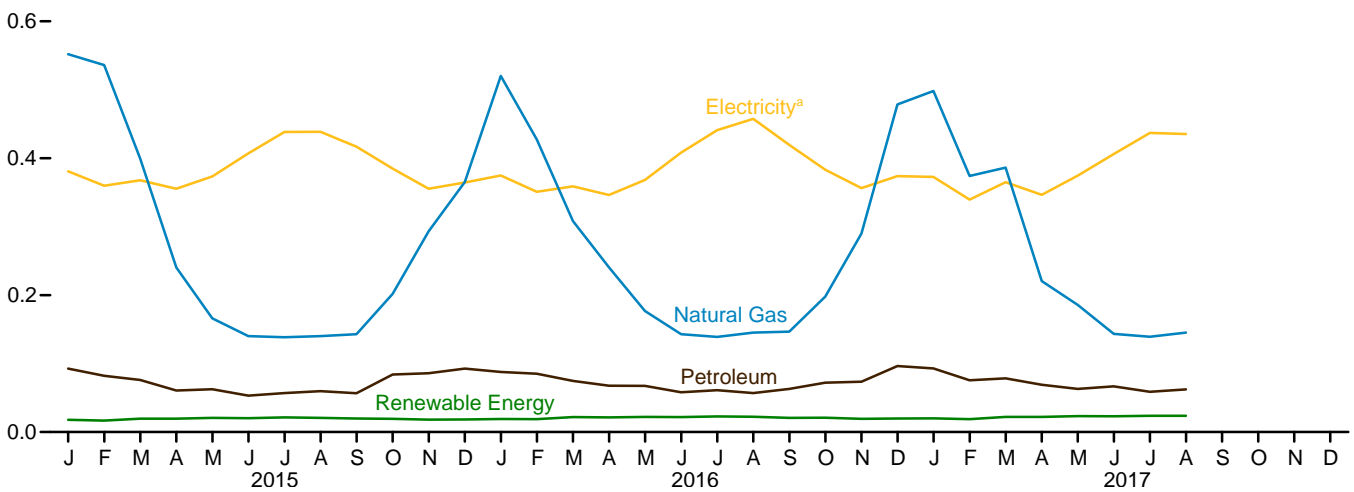
electricity retail sales. See Note 1, "Electrical System Energy Losses," at end of section.
R=Revised. NA=Not available.
Notes: • Data are estimates, except for electricity retail sales. • See Note 2, "Energy Consumption Data and Surveys," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.
Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#consumption> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.
Sources: See end of section.

Figure 2.3 Commercial Sector Energy Consumption
(Quadrillion Btu)

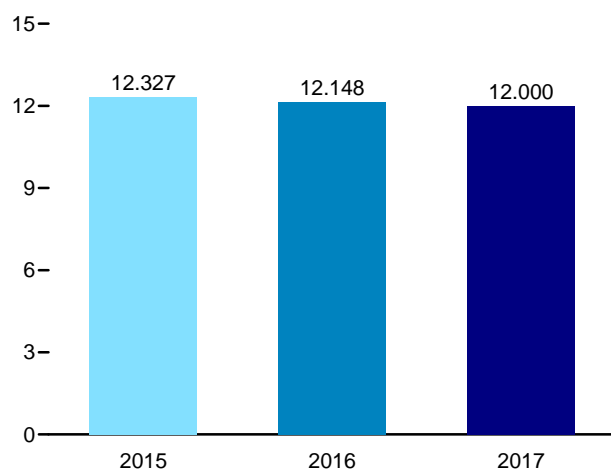
By Major Source, 1949–2016



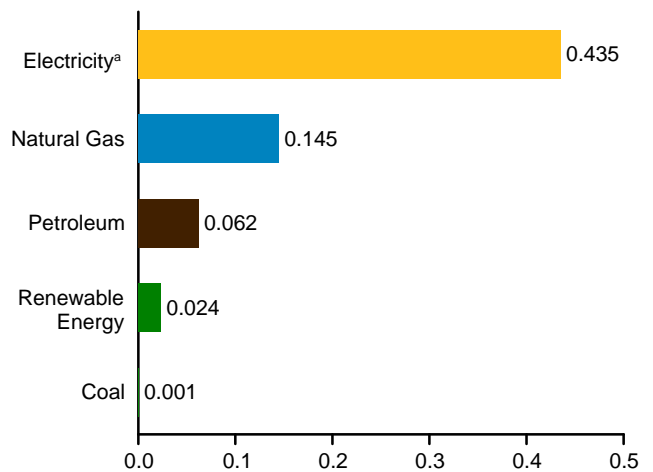
By Major Source, Monthly



Total, January–August



By Major Source, August 2017



^a Electricity retail sales.
Web Page: <http://www.eia.gov/totalenergy/data/monthly/#consumption>.
Source: Table 2.3.

Table 2.3 Commercial Sector Energy Consumption
(Trillion Btu)

	Primary Consumption ^a											Electricity Retail Sales ^g	Electrical System Energy Losses ^h	Total
	Fossil Fuels				Renewable Energy ^b									
	Coal	Natural Gas ^c	Petroleum ^d	Total	Hydroelectric Power ^e	Geothermal	Solar ^f	Wind	Bio-mass	Total	Total Primary			
1950 Total	1,542	401	872	2,815	NA	NA	NA	NA	19	19	2,834	225	834	3,893
1955 Total	801	651	1,095	2,547	NA	NA	NA	NA	15	15	2,561	350	984	3,895
1960 Total	407	1,056	1,248	2,711	NA	NA	NA	NA	12	12	2,723	543	1,344	4,609
1965 Total	265	1,490	1,413	3,168	NA	NA	NA	NA	9	9	3,177	789	1,880	5,845
1970 Total	165	2,473	1,592	4,229	NA	NA	NA	NA	8	8	4,237	1,201	2,908	8,346
1975 Total	147	2,558	1,346	4,051	NA	NA	NA	NA	8	8	4,059	1,598	3,835	9,492
1980 Total	115	2,651	1,318	4,084	NA	NA	NA	NA	21	21	4,105	1,906	4,567	10,578
1985 Total	137	2,488	1,083	3,708	NA	NA	NA	NA	24	24	3,732	2,351	5,368	11,451
1990 Total	124	2,682	991	3,798	1	3	(s)	–	94	98	3,896	2,860	6,564	13,320
1995 Total	117	3,096	769	3,982	1	5	(s)	–	113	119	4,100	3,252	7,337	14,690
2000 Total	92	3,252	806	4,150	1	8	1	–	119	128	4,278	3,956	8,942	17,175
2001 Total	97	3,097	789	3,983	1	8	1	–	92	101	4,085	4,062	8,990	17,137
2002 Total	90	3,212	725	4,027	(s)	9	1	–	95	105	4,132	4,110	9,104	17,346
2003 Total	82	3,261	841	4,184	1	11	1	–	101	114	4,298	4,090	8,958	17,346
2004 Total	103	3,201	809	4,113	1	12	1	–	105	120	4,232	4,198	9,225	17,655
2005 Total	97	3,073	761	3,931	1	14	2	–	105	121	4,052	4,351	9,451	17,853
2006 Total	65	2,902	661	3,627	1	14	2	–	103	120	3,747	4,435	9,525	17,707
2007 Total	70	3,085	646	3,801	1	14	4	–	103	121	3,922	4,560	9,771	18,253
2008 Total	81	3,228	660	3,970	1	15	6	–	109	130	4,100	4,559	9,743	18,402
2009 Total	73	3,187	659	3,919	1	17	7	(s)	112	137	4,055	4,459	9,373	17,887
2010 Total	70	3,165	647	3,881	1	19	11	(s)	111	142	4,023	4,539	9,497	18,058
2011 Total	62	3,216	631	3,908	(s)	20	19	(s)	115	154	4,063	4,531	9,385	17,979
2012 Total	44	2,960	562	3,565	(s)	20	32	1	108	161	3,725	4,528	9,168	17,422
2013 Total	41	3,380	561	3,982	(s)	20	41	1	120	182	4,164	4,562	9,206	17,932
2014 Total	40	3,572	568	4,180	(s)	20	52	1	126	199	4,380	4,614	9,261	18,254
2015 January	4	552	93	649	(s)	2	3	(s)	13	18	667	381	756	1,803
February	4	536	82	622	(s)	2	4	(s)	12	17	639	360	707	1,706
March	4	400	76	479	(s)	2	5	(s)	13	20	499	368	692	1,559
April	2	240	61	303	(s)	2	5	(s)	13	20	323	355	674	1,353
May	2	166	63	231	(s)	2	6	(s)	13	21	251	373	767	1,391
June	2	140	53	196	(s)	2	6	(s)	13	20	216	407	829	1,452
July	2	138	57	197	(s)	2	6	(s)	14	21	219	438	886	1,543
August	2	140	60	202	(s)	2	6	(s)	13	21	223	439	859	1,520
September	2	143	57	201	(s)	2	5	(s)	13	20	221	417	776	1,414
October	2	202	84	288	(s)	2	5	(s)	13	19	307	385	715	1,407
November	2	293	86	382	(s)	2	4	(s)	13	18	400	355	698	1,453
December	3	365	93	461	(s)	2	3	(s)	13	18	479	365	711	1,554
Total	31	3,316	863	4,210	(s)	20	57	1	154	232	4,442	4,643	9,073	18,158
2016 January	3	520	88	611	(s)	2	4	(s)	13	19	630	375	757	1,762
February	3	427	85	516	(s)	2	5	(s)	12	19	534	351	664	1,549
March	3	308	75	386	(s)	2	6	(s)	14	22	408	359	684	1,450
April	2	241	68	310	(s)	2	7	(s)	13	21	331	346	678	1,356
May	1	177	67	246	(s)	2	7	(s)	13	22	268	368	756	1,392
June	1	143	58	202	(s)	2	7	(s)	13	22	224	408	847	1,479
July	1	139	61	202	(s)	2	8	(s)	13	23	224	441	911	1,576
August	1	145	57	204	(s)	2	7	(s)	13	22	226	457	900	1,584
September	1	147	63	211	(s)	2	7	(s)	13	21	232	420	785	1,436
October	2	198	72	272	(s)	2	6	(s)	13	21	293	383	737	1,413
November	2	290	73	366	(s)	2	5	(s)	13	19	385	356	700	1,442
December	3	479	96	578	(s)	2	4	(s)	14	20	597	374	782	1,753
Total	24	3,213	864	4,101	1	20	72	1	157	251	4,352	4,639	9,205	18,196
2017 January	3	498	93	594	(s)	2	5	(s)	14	20	614	373	740	1,727
February	2	374	76	452	(s)	2	5	(s)	12	19	471	339	643	1,453
March	3	386	78	467	(s)	2	7	(s)	13	22	489	365	733	1,587
April	1	221	69	291	(s)	2	8	(s)	13	22	313	347	679	1,339
May	1	186	63	250	(s)	2	8	(s)	13	23	273	374	760	1,408
June	1	R 143	67	212	(s)	2	8	(s)	13	23	235	406	811	1,452
July	1	139	R 59	R 199	(s)	2	9	(s)	13	24	R 223	437	877	R 1,537
August	1	145	62	209	(s)	2	8	(s)	13	24	232	435	830	1,497
8-Month Total	14	2,092	567	2,673	1	13	58	1	104	177	2,850	3,077	6,073	12,000
2016 8-Month Total	16	2,100	559	2,675	(s)	13	51	1	105	170	2,845	3,106	6,197	12,148
2015 8-Month Total	22	2,313	544	2,879	(s)	13	40	1	103	157	3,036	3,121	6,170	12,327

^a See "Primary Energy Consumption" in Glossary.

^b See Table 10.2a for notes on series components and estimation.

^c Natural gas only; excludes the estimated portion of supplemental gaseous fuels. See Note 3, "Supplemental Gaseous Fuels," at end of Section 4.

^d Does not include biofuels that have been blended with petroleum—biofuels are included in "Biomass."

^e Conventional hydroelectric power.

^f Solar photovoltaic (PV) electricity net generation in the commercial sector, both utility-scale and distributed (small-scale). See Tables 10.2a and 10.5.

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

^h Total losses are calculated as the primary energy consumed by the electric power sector minus the energy content of electricity retail sales. Total losses are allocated to the end-use sectors in proportion to each sector's share of total electricity retail sales. See Note 1, "Electrical System Energy Losses," at end of

section.

R=Revised. NA=Not available. –=No data reported. (s)=Less than 0.5 trillion Btu.

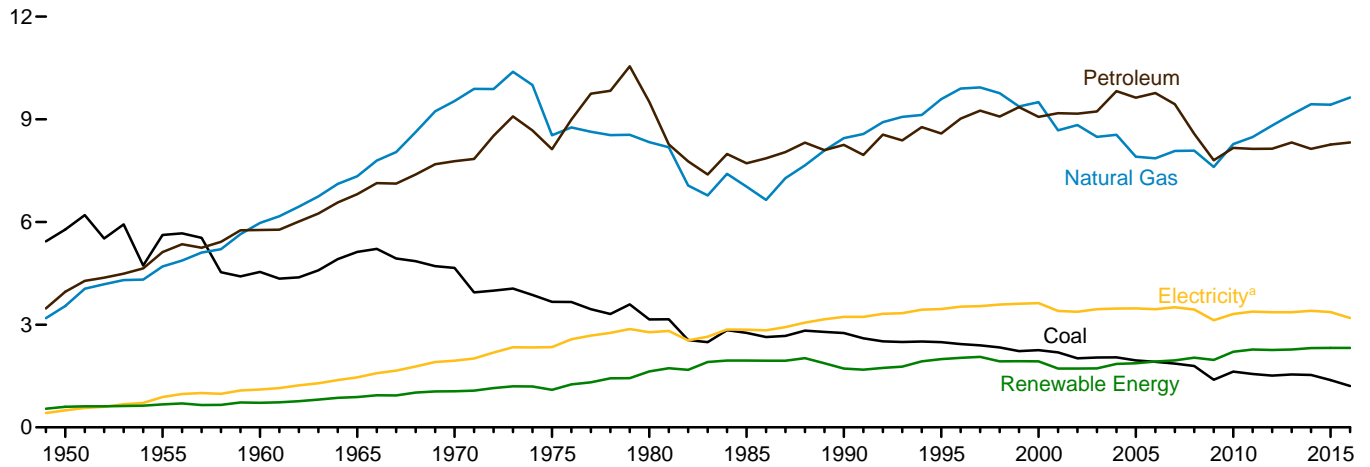
Notes: • Data are estimates, except for coal totals beginning in 2008; hydroelectric power; solar; wind; and electricity retail sales beginning in 1979. • The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. See Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7. • See Note 2, "Energy Consumption Data and Surveys," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#consumption> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

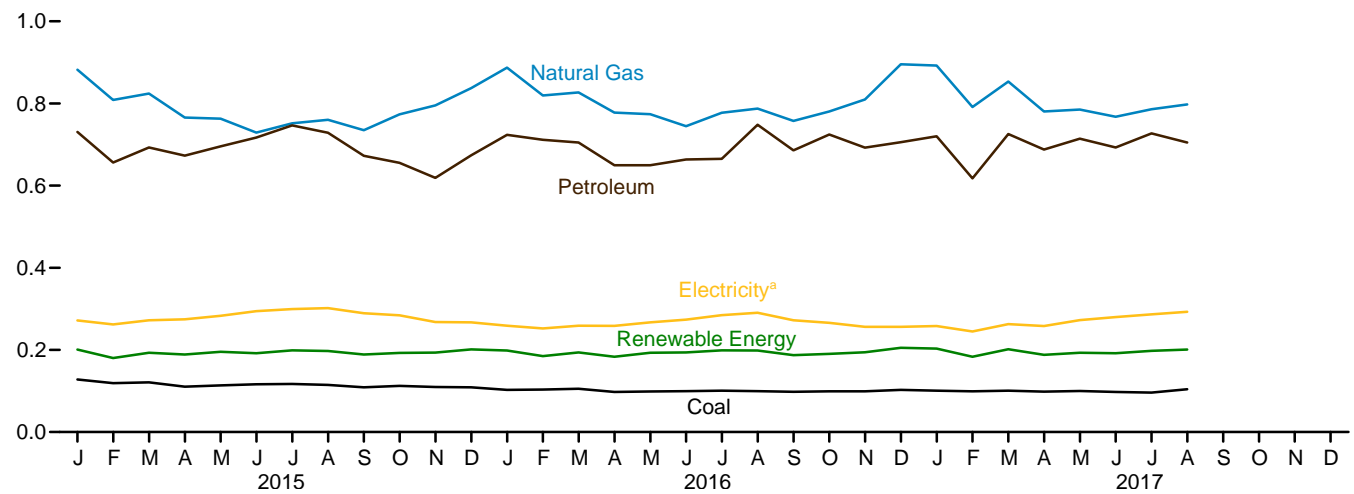
Sources: See end of section.

Figure 2.4 Industrial Sector Energy Consumption
(Quadrillion Btu)

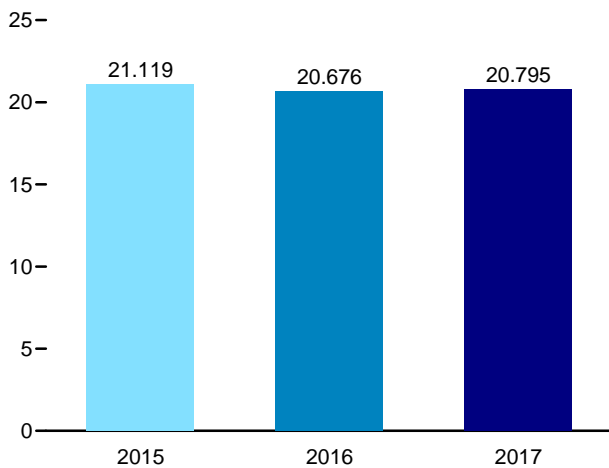
By Major Source, 1949–2016



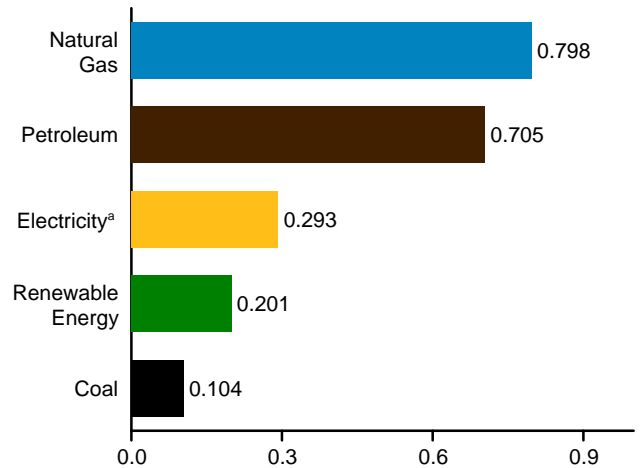
By Major Source, Monthly



Total, January–August



By Major Source, August 2017



^a Electricity retail sales.
Web Page: <http://www.eia.gov/totalenergy/data/monthly/#consumption>.
Source: Table 2.4.

Table 2.4 Industrial Sector Energy Consumption
(Trillion Btu)

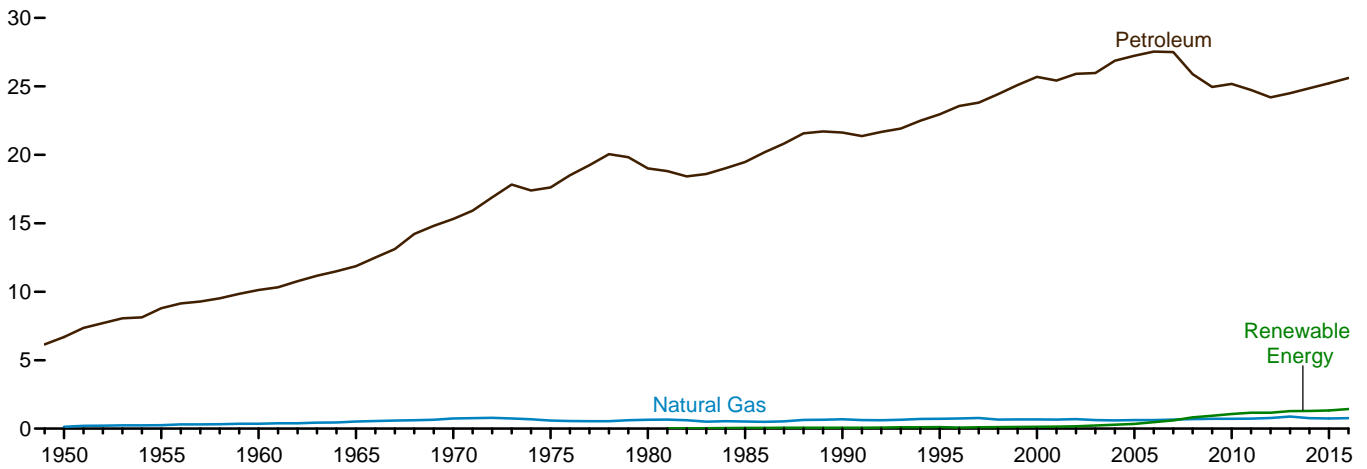
	Primary Consumption ^a											Elec- tricity Retail Sales ⁱ	Electrical System Energy Losses ^j	Total ^l	
	Fossil Fuels ^b				Renewable Energy ^c										
	Coal	Natural Gas ^d	Petro- leum ^e	Total ^f	Hydro- electric Power ^g	Geo- thermal	Solar ^h	Wind	Bio- mass	Total	Total Primary				
1950 Total	5,781	3,546	3,960	13,288	69	NA	NA	NA	532	602	13,890	500	1,852	16,241	
1955 Total	5,620	4,701	5,123	15,434	38	NA	NA	NA	631	669	16,103	887	2,495	19,485	
1960 Total	4,543	5,973	5,766	16,277	39	NA	NA	NA	680	719	16,996	1,107	2,739	20,842	
1965 Total	5,127	7,339	6,813	19,260	33	NA	NA	NA	855	888	20,148	1,463	3,487	25,098	
1970 Total	4,656	9,536	7,776	21,911	34	NA	NA	NA	1,019	1,053	22,964	1,948	4,716	29,628	
1975 Total	3,667	8,532	8,127	20,339	32	NA	NA	NA	1,063	1,096	21,434	2,346	5,632	29,413	
1980 Total	3,155	8,333	9,509	20,962	33	NA	NA	NA	1,600	1,633	22,595	2,781	6,664	32,039	
1985 Total	2,760	7,032	7,714	17,492	33	NA	NA	NA	1,918	1,951	19,443	2,855	6,518	28,816	
1990 Total	2,756	8,451	8,251	19,463	31		(s)	-	1,684	1,717	21,180	3,226	7,404	31,810	
1995 Total	2,488	9,592	8,585	20,726	55	3	(s)	-	1,934	1,992	22,718	3,455	7,796	33,970	
2000 Total	2,256	9,500	9,073	20,895	42	4	(s)	-	1,881	1,928	22,823	3,631	8,208	34,662	
2001 Total	2,192	8,676	9,177	20,074	33	5	(s)	-	1,681	1,719	21,793	3,400	7,526	32,719	
2002 Total	2,019	8,832	9,167	20,078	39	5	(s)	-	1,676	1,720	21,798	3,379	7,484	32,661	
2003 Total	2,041	8,488	9,229	19,809	43	3	(s)	-	1,678	1,725	21,534	3,454	7,565	32,553	
2004 Total	2,047	8,550	9,825	20,560	33	4	(s)	-	1,815	1,852	22,411	3,473	7,631	33,516	
2005 Total	1,954	7,907	9,634	19,540	32	4	(s)	-	1,834	1,871	21,410	3,477	7,554	32,442	
2006 Total	1,914	7,861	9,767	19,603	29	4	1	-	1,892	1,926	21,529	3,451	7,411	32,391	
2007 Total	1,865	8,074	9,442	19,405	16	5	1	-	1,937	1,958	21,363	3,507	7,515	32,385	
2008 Total	1,793	8,083	8,576	18,493	17	5	1	-	2,012	2,035	20,528	3,444	7,362	31,334	
2009 Total	1,392	7,609	7,806	16,784	18	4	2	-	1,948	1,972	18,756	3,130	6,580	28,466	
2010 Total	1,631	8,278	8,166	18,070	16	4	3	-	2,185	2,208	20,277	3,314	6,934	30,525	
2011 Total	1,561	8,481	8,135	18,187	17	4	4	(s)	2,246	2,272	20,459	3,382	7,005	30,847	
2012 Total	1,513	8,819	8,143	18,479	22	4	7	(s)	2,226	2,259	20,738	3,363	6,810	30,911	
2013 Total	1,546	9,140	8,326	18,995	33	4	9	(s)	2,226	2,272	21,267	3,362	6,785	31,414	
2014 Total	1,530	9,441	8,138	19,088	12	4	11	1	2,286	2,314	21,402	3,404	6,832	31,638	
2015															
January	128	882	731	1,739	1	(s)	1	(s)	199	201	1,940	272	539	2,751	
February	119	809	656	1,583	1	(s)	1	(s)	178	180	1,763	262	515	2,539	
March	121	824	693	1,637	1	(s)	1	(s)	190	193	1,830	272	512	2,614	
April	110	766	673	1,547	1	(s)	1	(s)	186	189	1,736	275	521	2,532	
May	114	763	696	1,570	1	(s)	1	(s)	192	195	1,765	283	581	2,629	
June	116	729	717	1,559	1	(s)	1	(s)	189	192	1,751	294	599	2,645	
July	117	752	747	1,615	1	(s)	1	(s)	196	199	1,814	299	605	2,718	
August	115	760	729	1,602	1	(s)	1	(s)	195	197	1,800	302	591	2,692	
September	109	735	673	1,517	1	(s)	1	(s)	186	189	1,705	289	538	2,533	
October	112	774	655	1,540	1	(s)	1	(s)	190	193	1,732	284	528	2,544	
November	110	795	619	1,521	1	(s)	1	(s)	191	193	1,714	268	526	2,509	
December	109	837	674	1,620	1	(s)	1	(s)	198	201	1,821	267	520	2,608	
Total	1,380	9,426	8,262	19,050	13	4	14	(s)	2,290	2,321	21,371	3,366	6,578	31,315	
2016															
January	103	887	724	1,712	1	(s)	1	(s)	196	198	1,911	259	523	2,693	
February	103	819	712	1,634	1	(s)	1	(s)	182	185	1,819	252	477	2,548	
March	106	827	705	1,637	1	(s)	1	(s)	191	194	1,831	259	494	2,583	
April	98	778	649	1,524	1	(s)	2	(s)	180	183	1,707	259	507	2,473	
May	99	774	650	1,522	1	(s)	2	(s)	190	193	1,715	267	548	2,530	
June	100	745	664	1,508	1	(s)	2	(s)	191	194	1,702	274	568	2,543	
July	101	777	665	1,542	1	(s)	2	(s)	196	199	1,741	284	588	2,613	
August	99	788	748	1,633	1	(s)	2	(s)	195	198	1,831	290	571	2,693	
September	98	758	686	1,540	1	(s)	2	(s)	185	187	1,727	272	509	2,508	
October	99	780	724	1,601	1	(s)	1	(s)	188	190	1,791	266	512	2,569	
November	99	810	692	1,597	1	(s)	1	(s)	192	194	1,791	256	503	2,550	
December	103	896	706	1,702	1	(s)	1	(s)	202	205	1,907	256	536	2,699	
Total	1,207	9,638	8,325	19,152	12	4	17	1	2,288	2,322	21,473	3,195	6,339	31,007	
2017															
January	101	892	720	1,710	1	(s)	1	(s)	200	203	1,913	258	512	2,683	
February	99	792	617	1,507	1	(s)	1	(s)	181	183	1,690	245	464	2,399	
March	101	853	725	1,678	1	(s)	2	(s)	198	202	1,879	263	528	2,670	
April	99	780	688	1,565	1	(s)	2	(s)	184	188	1,753	258	506	2,517	
May	100	785	714	1,598	1	(s)	2	(s)	189	193	1,791	272	553	2,616	
June	98	768	693	1,556	1	(s)	2	(s)	188	192	1,748	280	559	2,587	
July	96	R 786	R 727	R 1,608	1	(s)	3	(s)	194	198	R 1,806	287	576	R 2,668	
August	104	798	705	1,604	1	(s)	2	(s)	197	201	1,804	293	558	2,655	
8-Month Total	797	6,454	5,590	12,825	10	3	16	(s)	1,530	1,559	14,384	2,156	4,255	20,795	
2016 8-Month Total	808	6,395	5,517	12,712	9	3	12	(s)	1,521	1,545	14,257	2,144	4,275	20,676	
2015 8-Month Total	940	6,284	5,641	12,852	9	3	9	(s)	1,525	1,546	14,398	2,258	4,463	21,119	

a See "Primary Energy Consumption" in Glossary.
b Includes non-combustion use of fossil fuels.
c See Table 10.2b for notes on series components and estimation.
d Natural gas only; excludes the estimated portion of supplemental gaseous fuels. See Note 3, "Supplemental Gaseous Fuels," at end of Section 4.
e Does not include biofuels that have been blended with petroleum—biofuels are included in "Biomass."
f Includes coal coke net imports, which are not separately displayed. See Tables 1.4a and 1.4b.
g Conventional hydroelectric power.
h Solar photovoltaic (PV) electricity net generation in the industrial sector, both utility-scale and distributed (small-scale). See Tables 10.2b and 10.5.
i Electricity retail sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
j Total losses are calculated as the primary energy consumed by the electric power sector minus the energy content of electricity retail sales. Total losses are allocated to the end-use sectors in proportion to each sector's share of total

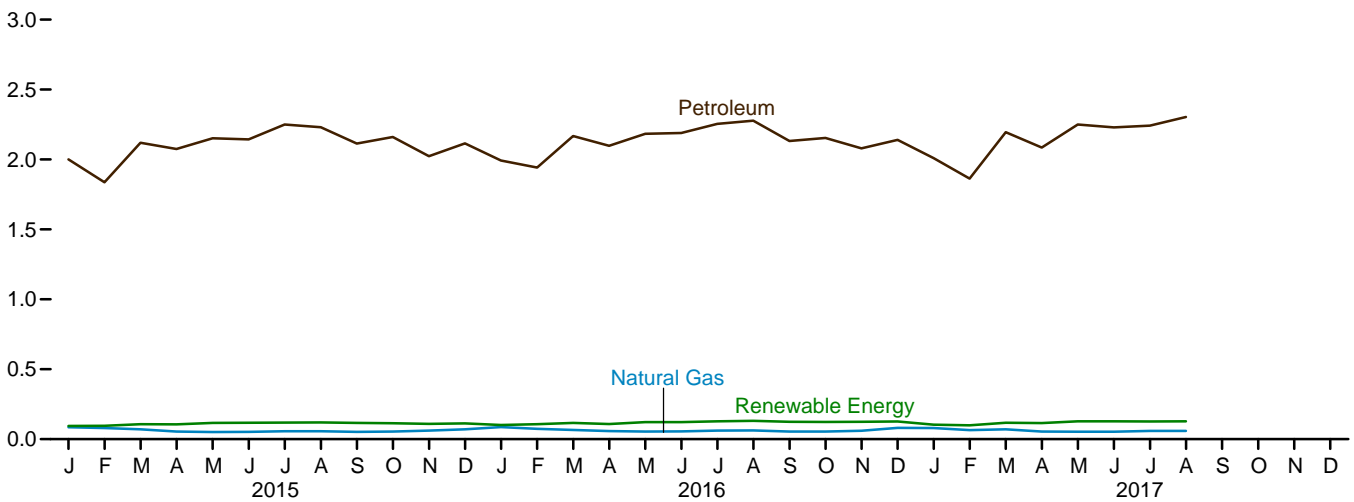
electricity retail sales. See Note 1, "Electrical System Energy Losses," at end of section.
R=Revised. NA=Not available. - =No data reported. (s)=Less than 0.5 trillion Btu.
Notes: • Data are estimates, except for coal totals; hydroelectric power in 1949–1978 and 1989 forward; solar; wind; and electricity retail sales. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. See Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7. • See Note 2, "Energy Consumption Data and Surveys," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.
Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#consumption> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.
Sources: See end of section.

Figure 2.5 Transportation Sector Energy Consumption
(Quadrillion Btu)

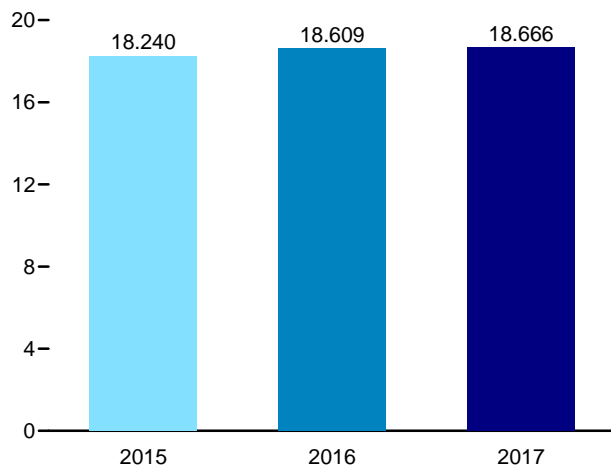
By Major Source, 1949–2016



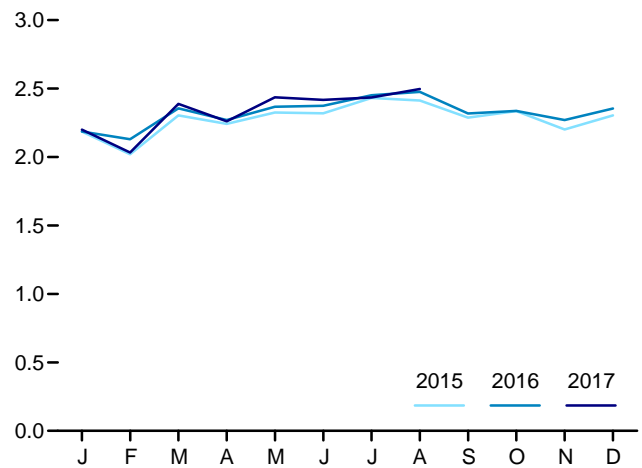
By Major Source, Monthly



Total, January–August



Total, Monthly



Web Page: <http://www.eia.gov/totalenergy/data/monthly/#consumption>.
Source: Table 2.5.

Table 2.5 Transportation Sector Energy Consumption
(Trillion Btu)

	Primary Consumption ^a					Total Primary	Electricity Retail Sales ^e	Electrical System Energy Losses ^f	Total
	Fossil Fuels				Renewable Energy ^b				
	Coal	Natural Gas ^c	Petroleum ^d	Total	Biomass				
1950 Total	1,564	130	6,690	8,383	NA	8,383	23	86	8,492
1955 Total	421	254	8,799	9,474	NA	9,474	20	56	9,550
1960 Total	75	359	10,125	10,560	NA	10,560	10	26	10,596
1965 Total	16	517	11,866	12,399	NA	12,399	10	24	12,432
1970 Total	7	745	15,310	16,062	NA	16,062	11	26	16,098
1975 Total	1	595	17,615	18,210	NA	18,210	10	24	18,245
1980 Total	(g)	650	19,009	19,659	NA	19,659	11	27	19,697
1985 Total	(g)	519	19,472	19,992	50	20,041	14	32	20,088
1990 Total	(g)	680	21,626	22,306	60	22,366	16	37	22,420
1995 Total	(g)	724	22,959	23,683	112	23,796	17	38	23,851
2000 Total	(g)	672	25,689	26,361	135	26,495	18	42	26,555
2001 Total	(g)	658	25,419	26,077	142	26,219	20	43	26,282
2002 Total	(g)	699	25,917	26,616	170	26,785	19	42	26,846
2003 Total	(g)	627	25,969	26,596	230	26,826	23	51	26,900
2004 Total	(g)	602	26,872	27,474	290	27,764	25	54	27,843
2005 Total	(g)	624	27,236	27,860	339	28,199	26	56	28,280
2006 Total	(g)	625	27,538	28,163	475	28,638	25	54	28,717
2007 Total	(g)	663	27,505	28,169	602	28,771	28	60	28,858
2008 Total	(g)	692	25,888	26,580	825	27,404	26	56	27,486
2009 Total	(g)	715	24,955	25,670	935	26,605	27	56	26,687
2010 Total	(g)	719	25,184	25,903	1,075	26,978	26	55	27,059
2011 Total	(g)	734	24,740	25,474	1,158	26,632	26	54	26,712
2012 Total	(g)	780	24,202	24,982	1,162	26,144	25	51	26,219
2013 Total	(g)	887	24,506	25,394	1,278	26,671	26	53	26,750
2014 Total	(g)	760	24,865	25,625	1,292	26,917	26	53	26,996
2015 Total	(g)	745	25,221	25,966	1,325	27,291	26	51	27,368
2015 January	(g)	85	2,000	2,085	94	2,180	2	5	2,186
February	(g)	80	1,837	1,917	95	2,012	2	5	2,020
March	(g)	71	2,120	2,191	107	2,298	2	4	2,304
April	(g)	55	2,075	2,130	105	2,235	2	4	2,242
May	(g)	51	2,152	2,203	116	2,319	2	4	2,325
June	(g)	52	2,144	2,196	117	2,313	2	4	2,319
July	(g)	57	2,250	2,307	118	2,425	2	4	2,431
August	(g)	56	2,231	2,287	120	2,406	2	4	2,413
September	(g)	52	2,113	2,165	116	2,281	2	4	2,287
October	(g)	54	2,161	2,215	114	2,330	2	4	2,336
November	(g)	62	2,024	2,085	110	2,195	2	4	2,201
December	(g)	71	2,115	2,185	113	2,298	2	4	2,304
2016 Total	(g)	745	25,221	25,966	1,325	27,291	26	51	27,368
2016 Total	(g)	767	25,612	26,378	1,433	27,811	26	51	27,888
2016 January	(g)	86	1,992	2,078	102	2,180	2	5	2,186
February	(g)	74	1,942	2,016	107	2,123	2	4	2,129
March	(g)	66	2,168	2,233	116	2,349	2	4	2,355
April	(g)	58	2,098	2,156	108	2,264	2	4	2,270
May	(g)	55	2,184	2,238	122	2,361	2	4	2,367
June	(g)	56	2,190	2,246	121	2,367	2	4	2,374
July	(g)	61	2,255	2,316	128	2,444	2	5	2,451
August	(g)	62	2,277	2,339	131	2,470	2	4	2,476
September	(g)	55	2,133	2,187	124	2,312	2	4	2,318
October	(g)	54	2,154	2,207	123	2,331	2	4	2,337
November	(g)	61	2,080	2,140	124	2,264	2	4	2,270
December	(g)	80	2,140	2,221	127	2,347	2	5	2,354
2017 Total	(g)	767	25,612	26,378	1,433	27,811	26	51	27,888
2017 Total	(g)	80	2,009	2,089	104	2,193	2	5	2,200
2017 January	(g)	80	2,009	2,089	104	2,193	2	5	2,200
February	(g)	64	1,863	1,927	100	2,027	2	4	2,033
March	(g)	70	2,195	2,265	117	2,382	2	4	2,389
April	(g)	54	2,085	2,139	115	2,255	2	4	2,261
May	(g)	53	2,250	2,303	127	2,430	2	4	2,436
June	(g)	53	2,229	2,283	128	2,411	2	4	2,417
July	(g)	59	R 2,242	R 2,302	126	R 2,428	2	4	R 2,434
August	(g)	59	2,303	2,362	128	2,490	2	4	2,496
8-Month Total	(g)	493	17,177	17,670	945	18,615	17	34	18,666
2016 8-Month Total	(g)	517	17,105	17,623	935	18,558	17	34	18,609
2015 8-Month Total	(g)	506	16,809	17,315	873	18,188	18	35	18,240

^a See "Primary Energy Consumption" in Glossary.

^b See Table 10.2b for notes on series components.

^c Natural gas only; does not include supplemental gaseous fuels—see Note 3, "Supplemental Gaseous Fuels," at end of Section 4. Data are for natural gas consumed in the operation of pipelines (primarily in compressors) and small amounts consumed as vehicle fuel—see Table 4.3.

^d Does not include biofuels that have been blended with petroleum—biofuels are included in "Biomass." Includes non-combustion use of lubricants.

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

^f Total losses are calculated as the primary energy consumed by the electric power sector minus the energy content of electricity retail sales. Total losses are allocated to the end-use sectors in proportion to each sector's share of total electricity retail sales. See Note 1, "Electrical System Energy Losses," at end of

section.

^g Beginning in 1978, the small amounts of coal consumed for transportation are reported as industrial sector consumption.

R=Revised, NA=Not available.

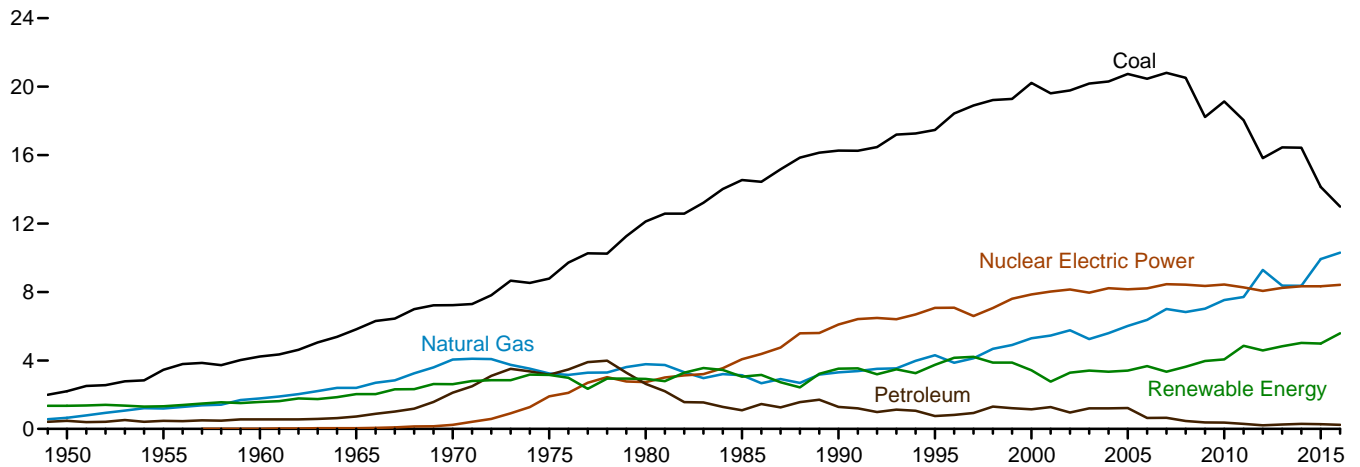
Notes: • Data are estimates, except for coal totals through 1977; and electricity retail sales beginning in 1979. • See Note 2, "Energy Consumption Data and Surveys," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#consumption> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

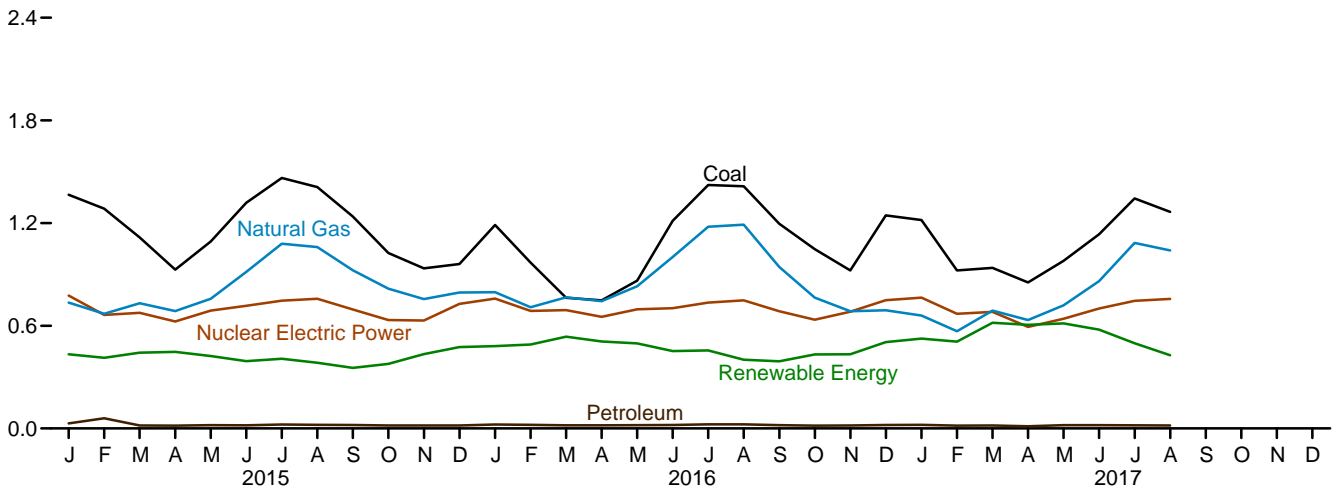
Sources: See end of section.

Figure 2.6 Electric Power Sector Energy Consumption
(Quadrillion Btu)

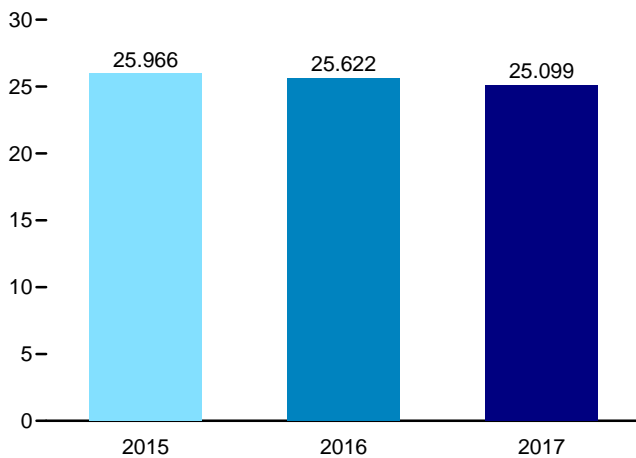
By Major Source, 1949–2016



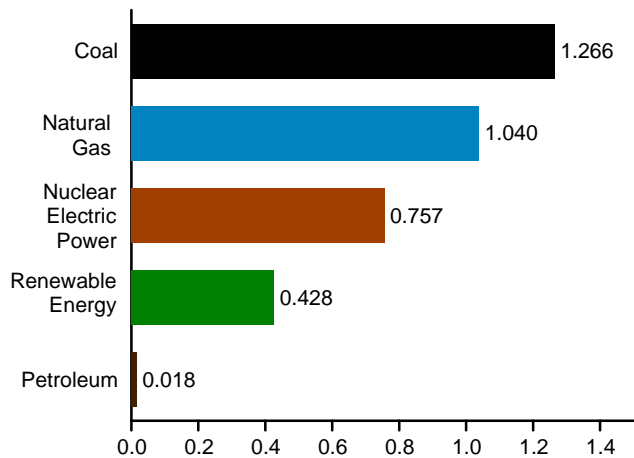
By Major Source, Monthly



Total, January–August



By Major Source, August 2017



Web Page: <http://www.eia.gov/totalenergy/data/monthly/#consumption>.
Source: Table 2.6.

Table 2.6 Electric Power Sector Energy Consumption
(Trillion Btu)

	Primary Consumption ^a												Elec- tricity Net Imports ^f	Total Primary
	Fossil Fuels				Nuclear Electric Power	Renewable Energy ^b								
	Coal	Natural Gas ^c	Petro- leum	Total		Hydro- electric Power ^d	Geo- thermal	Solar ^e	Wind	Bio- mass	Total			
1950 Total	2,199	651	472	3,322	0	1,346	NA	NA	NA	5	1,351	6	4,679	
1955 Total	3,458	1,194	471	5,123	0	1,322	NA	NA	NA	3	1,325	14	6,461	
1960 Total	4,228	1,785	553	6,565	6	1,569	(s)	NA	NA	2	1,571	15	8,158	
1965 Total	5,821	2,395	722	8,938	43	2,026	2	NA	NA	3	2,031	(s)	11,012	
1970 Total	7,227	4,054	2,117	13,399	239	2,600	6	NA	NA	4	2,609	7	16,253	
1975 Total	8,786	3,240	3,166	15,191	1,900	3,122	34	NA	NA	2	3,158	21	20,270	
1980 Total	12,123	3,778	2,634	18,534	2,739	2,867	53	NA	NA	4	2,925	71	24,269	
1985 Total	14,542	3,135	1,090	18,767	4,076	2,937	97	(s)	(s)	14	3,049	140	26,032	
1990 Total^g	16,261	3,309	1,289	20,859	6,104	3,014	161	4	29	317	3,524	8	30,495	
1995 Total	17,466	4,302	755	22,523	7,075	3,149	138	5	33	422	3,747	134	33,479	
2000 Total	20,220	5,293	1,144	26,658	7,862	2,768	144	5	57	453	3,427	115	38,062	
2001 Total	19,614	5,458	1,276	26,348	8,029	2,209	142	6	70	337	2,763	75	37,215	
2002 Total	19,783	5,767	961	26,511	8,145	2,650	147	6	105	380	3,288	72	38,016	
2003 Total	20,185	5,246	1,205	26,636	7,960	2,749	146	5	113	397	3,411	22	38,028	
2004 Total	20,305	5,595	1,201	27,101	8,223	2,655	148	6	142	388	3,339	39	38,701	
2005 Total	20,737	6,015	1,222	27,974	8,161	2,670	147	6	178	406	3,406	85	39,626	
2006 Total	20,462	6,375	637	27,474	8,215	2,839	145	5	264	412	3,665	63	39,417	
2007 Total	20,808	7,005	648	28,461	8,459	2,430	145	6	341	423	3,345	107	40,371	
2008 Total	20,513	6,829	459	27,801	8,426	2,494	146	9	546	435	3,630	112	39,969	
2009 Total	18,225	7,022	382	25,630	8,355	2,650	146	9	721	441	3,967	116	38,069	
2010 Total	19,133	7,528	370	27,031	8,434	2,521	148	12	923	459	4,064	89	39,619	
2011 Total	18,035	7,712	295	26,042	8,269	3,085	149	17	1,167	437	4,855	127	39,293	
2012 Total	15,821	9,287	214	25,322	8,062	2,606	148	40	1,339	453	4,586	161	38,131	
2013 Total	16,451	8,376	255	25,082	8,244	2,529	151	83	1,600	470	4,833	197	38,357	
2014 Total	16,427	8,362	295	25,085	8,338	2,454	151	165	1,726	530	5,026	182	38,629	
2015														
January	1,366	735	29	2,130	777	224	13	11	141	45	433	18	3,357	
February	1,284	670	59	2,013	664	207	12	14	139	41	412	14	3,103	
March	1,116	732	18	1,865	675	225	13	19	143	43	443	19	3,002	
April	928	686	17	1,630	625	208	12	22	166	40	448	20	2,723	
May	1,092	758	19	1,869	688	186	13	23	160	41	423	20	3,002	
June	1,319	915	19	2,252	717	189	12	23	125	44	393	21	3,383	
July	1,464	1,079	23	2,566	747	195	13	24	127	48	407	21	3,741	
August	1,411	1,060	21	2,492	757	177	13	25	122	48	384	22	3,655	
September	1,238	924	20	2,182	695	149	11	20	130	43	354	20	3,251	
October	1,025	817	17	1,860	633	154	12	17	152	41	378	16	2,886	
November	936	756	18	1,710	630	179	12	16	183	44	434	18	2,792	
December	960	794	17	1,771	728	214	13	14	187	47	476	17	2,993	
Total	14,138	9,926	276	24,341	8,337	2,308	148	228	1,776	525	4,985	227	37,890	
2016														
January	1,189	796	23	2,008	758	236	14	14	173	45	481	21	3,269	
February	969	708	21	1,698	686	224	13	22	188	43	490	17	2,892	
March	763	766	18	1,548	692	250	14	25	205	43	536	18	2,794	
April	748	744	18	1,510	652	236	12	27	193	40	508	15	2,686	
May	863	831	19	1,713	696	235	14	33	175	40	496	19	2,924	
June	1,213	1,002	20	2,235	703	212	13	33	152	42	452	23	3,413	
July	1,422	1,178	24	2,625	736	197	13	38	164	45	456	25	3,842	
August	1,415	1,191	24	2,630	748	180	13	36	126	46	401	24	3,803	
September	1,197	944	20	2,160	684	151	14	34	153	41	393	20	3,257	
October	1,048	764	16	1,828	635	160	14	29	190	39	432	18	2,913	
November	923	684	17	1,625	682	175	14	25	180	40	433	21	2,761	
December	1,244	690	20	1,955	749	209	15	21	214	46	505	22	3,231	
Total	12,995	10,299	240	23,535	8,422	2,465	162	337	2,112	509	5,585	242	37,784	
2017														
January	1,218	660	21	1,899	765	257	14	20	189	44	525	16	3,205	
February	923	568	16	1,507	670	228	13	24	202	41	507	12	2,696	
March	938	688	17	1,644	681	280	14	41	238	44	618	12	2,955	
April	853	633	13	1,499	593	271	14	44	237	39	605	15	2,712	
May	979	720	19	1,718	641	298	13	54	208	42	614	14	2,987	
June	1,134	860	19	2,014	701	284	13	58	181	41	577	16	3,308	
July	1,344	1,084	18	2,447	746	243	14	51	146	43	498	20	3,710	
August	1,266	1,040	18	2,323	757	198	14	50	122	44	428	19	3,527	
8-Month Total	8,655	6,253	142	15,050	5,553	2,060	110	342	1,523	338	4,372	124	25,099	
2016 8-Month Total	8,583	7,216	167	15,967	5,671	1,770	106	228	1,375	344	3,823	162	25,622	
2015 8-Month Total	9,978	6,634	204	16,817	5,650	1,611	100	160	1,123	350	3,343	157	25,966	

^a See "Primary Energy Consumption" in Glossary.
^b See Table 10.2c for notes on series components.
^c Natural gas only; excludes the estimated portion of supplemental gaseous fuels. See Note 3, "Supplemental Gaseous Fuels," at end of Section 4.
^d Conventional hydroelectric power.
^e Solar photovoltaic (PV) and solar thermal electricity net generation in the electric power sector. See Tables 10.2c and 10.5.
^f Net imports equal imports minus exports.
^g Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities and independent power producers.
 NA=Not available. (s)=Less than 0.5 trillion Btu.

Notes: • Data are for fuels consumed to produce electricity and useful thermal output. • 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. • See Note 2, "Energy Consumption Data and Surveys," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.
 Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#consumption> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.
 Sources: See end of section.

Table 2.7 U.S. Government Energy Consumption by Agency, Fiscal Years
(Trillion Btu)

Fiscal Year ^a	Agri-culture	Defense	Energy	GSA ^b	HHS ^c	Interior	Justice	NASA ^d	Postal Service	Trans- portation	Veterans Affairs	Other ^e	Total
1975	9.5	1,360.2	50.4	22.3	6.5	9.4	5.9	13.4	30.5	19.3	27.1	10.5	1,565.0
1976	9.3	1,183.3	50.3	20.6	6.7	9.4	5.7	12.4	30.0	19.5	25.0	11.2	1,383.4
1977	8.9	1,192.3	51.6	20.4	6.9	9.5	5.9	12.0	32.7	20.4	25.9	11.9	1,398.5
1978	9.1	1,157.8	50.1	20.4	6.5	9.2	5.9	11.2	30.9	20.6	26.8	12.4	1,360.9
1979	9.2	1,175.8	49.6	19.6	6.4	10.4	6.4	11.1	29.3	19.6	25.7	12.3	1,375.4
1980	8.6	1,183.1	47.4	18.1	6.0	8.5	5.7	10.4	27.2	19.2	24.8	12.3	1,371.2
1981	7.9	1,239.5	47.3	18.0	6.7	7.6	5.4	10.0	27.9	18.8	24.0	11.1	1,424.2
1982	7.6	1,264.5	49.0	18.1	6.4	7.4	5.8	10.1	27.5	19.1	24.2	11.6	1,451.4
1983	7.4	1,248.3	49.5	16.1	6.2	7.7	5.5	10.3	26.5	19.4	24.1	10.8	1,431.8
1984	7.9	1,292.1	51.6	16.2	6.4	8.4	6.4	10.6	27.7	19.8	24.6	10.7	1,482.5
1985	8.4	1,250.6	52.2	20.7	6.0	7.8	8.2	10.9	27.8	19.6	25.1	13.1	1,450.3
1986	6.8	1,222.8	46.9	14.0	6.2	6.9	8.6	11.2	28.0	19.4	25.0	10.8	1,406.7
1987	7.3	1,280.5	48.5	13.1	6.6	6.6	8.1	11.3	28.5	19.0	24.9	11.9	1,466.3
1988	7.8	1,165.8	49.9	12.4	6.4	7.0	9.4	11.3	29.6	18.7	26.3	15.8	1,360.3
1989	8.7	1,274.4	44.2	12.7	6.7	7.1	7.7	12.4	30.3	18.5	26.2	15.6	1,464.7
1990	9.6	1,241.7	43.5	17.5	7.1	7.4	7.0	12.4	30.6	19.0	24.9	17.5	1,438.0
1991	9.6	1,269.3	42.1	14.0	6.2	7.1	8.0	12.5	30.8	19.0	25.1	18.1	1,461.7
1992	9.1	1,104.0	44.3	13.8	6.8	7.0	7.5	12.6	31.7	17.0	25.3	15.7	1,294.8
1993	9.3	1,048.8	43.4	14.1	7.2	7.5	9.1	12.4	33.7	19.4	25.7	16.2	1,246.8
1994	9.4	977.0	42.1	14.0	7.5	7.9	10.3	12.6	35.0	19.8	25.6	17.1	1,178.2
1995	9.0	926.0	47.3	13.7	6.1	6.4	10.2	12.4	36.2	18.7	25.4	17.1	1,128.5
1996	9.1	904.5	44.6	14.5	6.6	4.3	12.1	11.5	36.4	19.6	26.8	17.7	1,107.7
1997	7.4	880.0	43.1	14.4	7.9	6.6	12.0	12.0	40.8	19.1	27.3	20.8	1,091.2
1998	7.9	837.1	31.5	14.1	7.4	6.4	15.8	11.7	39.5	18.5	27.6	19.5	1,037.1
1999	7.8	810.7	27.0	14.4	7.1	7.5	15.4	11.4	39.8	22.6	27.5	19.8	1,010.9
2000	7.4	779.1	30.5	17.6	8.0	7.8	19.7	11.1	43.3	21.2	27.0	20.3	993.1
2001	7.4	787.2	31.1	18.4	8.5	9.5	19.7	10.9	43.4	17.8	27.7	20.7	1,002.3
2002	7.2	837.5	30.7	17.5	8.0	8.2	17.7	10.7	41.6	18.3	27.7	18.4	1,043.4
2003	7.7	895.1	31.9	18.5	10.1	7.3	22.7	10.8	50.9	5.5	30.6	41.0	1,132.3
2004	7.0	960.7	31.4	18.3	8.8	8.7	17.5	9.9	50.5	5.2	29.9	44.0	1,191.7
2005	7.5	933.2	29.6	18.4	9.6	8.6	18.8	10.3	53.5	5.0	30.0	42.1	1,166.4
2006	6.8	843.7	32.9	18.2	9.3	8.1	23.5	10.2	51.8	4.6	29.3	38.1	1,076.4
2007	6.8	864.6	31.5	19.1	9.9	7.5	20.7	10.6	45.8	5.6	30.0	38.1	1,090.2
2008	6.5	910.8	32.1	18.8	10.3	7.1	19.0	10.8	47.1	7.7	29.0	44.1	1,143.2
2009	6.6	874.3	31.1	18.6	10.8	7.9	16.5	10.2	44.2	4.3	29.9	40.4	1,094.8
2010	6.8	889.9	31.7	18.8	10.4	7.3	15.7	10.1	43.3	5.7	30.2	42.9	1,112.7
2011	8.3	890.3	33.1	18.5	10.5	7.3	13.9	10.1	43.0	6.7	30.6	41.7	1,114.1
2012	6.7	828.5	30.3	16.3	10.0	6.7	15.1	8.9	40.8	5.6	29.7	40.6	1,039.3
2013	7.3	749.5	28.9	16.4	10.5	6.2	15.3	8.7	41.9	5.3	29.9	39.3	959.3
2014	6.3	730.6	29.4	17.0	9.5	6.2	15.6	8.3	43.0	5.2	31.4	39.0	941.5
2015	6.2	734.5	30.1	16.9	9.0	6.8	16.2	8.4	44.0	6.0	30.7	37.8	946.5
2016	6.2	709.2	28.9	15.8	8.7	6.4	15.6	8.5	43.9	6.0	30.3	37.6	917.2

^a For 1975 and 1976, the U.S. Government's fiscal year was July 1 through June 30. Beginning in 1977, the U.S. Government's fiscal year is October 1 through September 30 (for example, fiscal year 2014 is October 2013 through September 2014).

^b General Services Administration.

^c Health and Human Services.

^d National Aeronautics and Space Administration.

^e Includes all U.S. government agencies not separately displayed. See <http://ctsedweb.ee.doe.gov/Annual/Report/AgencyReference.aspx> for agency list.

Notes: • Data in this table are developed using conversion factors that often differ from those in Tables A1–A6. • Data include energy consumed at foreign

installations and in foreign operations, including aviation and ocean bunkering, primarily by the U.S. Department of Defense. U.S. Government energy use for electricity generation and uranium enrichment is excluded. • Totals may not equal sum of components due to independent rounding.

Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#consumption> (Excel and CSV files) for all annual data beginning in 1975.

Source: U.S. Department of Energy, Office of Energy Efficiency and Renewable Energy, Federal Energy Management Program. See <http://ctsedweb.ee.doe.gov/Annual/Report/Report.aspx>, "A-1 Total Site-Delivered Energy Use in All End-Use Sectors, by Federal Agency (Billion Btu)" dataset.

Table 2.8 U.S. Government Energy Consumption by Source, Fiscal Years
(Trillion Btu)

Fiscal Year ^a	Coal	Natural Gas ^b	Petroleum					Other Mobility Fuels ^f	Electricity	Purchased Steam and Other ^g	Total	
			Aviation Gasoline	Fuel Oil ^c	Jet Fuel	LPG ^d	Motor Gasoline ^e					Total
1975	77.9	166.2	22.0	376.0	707.4	5.6	63.2	1,174.2	0.0	141.5	5.1	1,565.0
1976	71.3	151.8	11.6	329.7	610.0	4.7	60.4	1,016.4	.0	139.3	4.6	1,383.4
1977	68.4	141.2	8.8	348.5	619.2	4.1	61.4	1,042.1	.0	141.1	5.7	1,398.5
1978	66.0	144.7	6.2	332.3	601.1	3.0	60.1	1,002.9	.0	141.0	6.4	1,360.9
1979	65.1	148.9	4.7	327.1	618.6	3.7	59.1	1,013.1	.0	141.2	7.1	1,375.4
1980	63.5	147.3	4.9	307.7	638.7	3.8	56.5	1,011.6	.2	141.9	6.8	1,371.2
1981	65.1	142.2	4.6	351.3	653.3	3.5	53.2	1,066.0	.2	144.5	6.2	1,424.2
1982	68.6	146.2	3.6	349.4	672.7	3.7	53.1	1,082.5	.2	147.5	6.2	1,451.4
1983	62.4	147.8	2.6	329.5	673.4	3.8	51.6	1,060.8	.2	151.5	9.0	1,431.8
1984	65.3	157.4	1.9	342.9	693.7	3.9	51.2	1,093.6	.2	155.9	10.1	1,482.5
1985	64.8	149.9	1.9	292.6	705.7	3.8	50.4	1,054.3	.2	167.2	13.9	1,450.3
1986	63.8	140.9	1.4	271.6	710.2	3.6	45.3	1,032.1	.3	155.8	13.7	1,406.7
1987	67.0	145.6	1.0	319.5	702.3	3.6	43.1	1,069.5	.4	169.9	13.9	1,466.3
1988	60.2	144.6	6.0	284.8	617.2	2.7	41.2	951.9	.4	171.2	32.0	1,360.3
1989	48.7	152.4	.8	245.3	761.7	3.5	41.1	1,052.4	2.2	188.6	20.6	1,464.7
1990	44.3	159.4	.5	245.2	732.4	3.8	37.2	1,019.1	2.6	193.6	19.1	1,438.0
1991	45.9	154.1	.4	232.6	774.5	3.0	34.1	1,044.7	6.0	192.7	18.3	1,461.7
1992	51.7	151.2	1.0	200.6	628.2	3.0	35.6	868.4	8.4	192.5	22.5	1,294.8
1993	38.3	152.9	.7	187.0	612.4	3.5	34.5	838.1	5.8	193.1	18.6	1,246.8
1994	35.0	143.9	.6	198.5	550.7	3.2	29.5	782.6	7.7	190.9	18.2	1,178.2
1995	31.7	149.4	.3	178.4	522.3	3.0	31.9	735.9	8.4	184.8	18.2	1,128.5
1996	23.3	147.3	.2	170.5	513.0	3.1	27.6	714.4	18.7	184.0	20.1	1,107.7
1997	22.5	153.8	.3	180.0	475.7	2.6	39.0	697.6	14.5	183.6	19.2	1,091.2
1998	23.9	140.4	.2	174.5	445.5	3.5	43.0	666.8	5.9	181.4	18.8	1,037.1
1999	21.2	137.4	.1	162.1	444.7	2.4	41.1	650.4	.4	180.0	21.5	1,010.9
2000	22.7	133.8	.2	171.3	403.1	2.5	43.9	621.0	1.8	193.6	20.2	993.1
2001	18.8	133.7	.2	176.9	415.2	3.1	42.5	638.0	4.8	188.4	18.6	1,002.3
2002	16.9	133.7	.2	165.6	472.9	2.8	41.3	682.8	3.2	188.3	18.5	1,043.4
2003	18.1	135.5	.3	190.8	517.9	3.2	46.3	758.4	3.3	193.8	23.2	1,132.3
2004	17.4	135.3	.2	261.4	508.2	2.9	44.1	816.9	3.1	197.1	22.0	1,191.7
2005	17.1	135.7	.4	241.4	492.2	3.4	48.8	786.1	5.6	197.6	24.3	1,166.4
2006	23.5	132.6	.6	209.3	442.6	2.7	48.3	703.6	2.1	196.7	18.2	1,076.4
2007	20.4	131.5	.4	212.9	461.1	2.7	46.5	723.7	2.9	194.9	16.7	1,090.2
2008	20.8	129.6	.4	198.4	525.4	2.3	49.0	775.4	3.6	196.1	17.7	1,143.2
2009	20.3	131.7	.3	166.4	505.7	3.2	48.3	723.9	10.1	191.3	17.7	1,094.8
2010	20.0	130.1	.4	157.8	535.8	2.5	51.3	747.7	3.0	193.7	18.2	1,112.7
2011	18.5	124.7	.9	166.5	533.6	2.0	52.7	755.8	2.7	193.2	19.1	1,114.1
2012	15.9	116.2	.4	148.6	493.5	1.7	50.1	694.4	3.1	187.2	22.5	1,039.3
2013	14.3	122.5	.7	140.0	424.0	1.9	46.6	613.2	2.8	184.7	21.8	959.3
2014	13.5	125.6	.3	133.5	414.3	1.8	44.9	594.8	3.6	182.1	21.9	941.5
2015	12.6	123.3	.3	134.4	418.9	1.8	46.8	602.2	3.7	184.4	20.3	946.5
2016	10.2	115.4	.3	129.7	403.9	1.7	46.5	582.2	3.6	184.5	21.4	917.2

^a For 1975 and 1976, the U.S. Government's fiscal year was July 1 through June 30. Beginning in 1977, the U.S. Government's fiscal year is October 1 through September 30 (for example, fiscal year 2014 is October 2013 through September 2014).

^b Natural gas, plus a small amount of supplemental gaseous fuels.

^c Distillate fuel oil, including diesel fuel; and residual fuel oil, including Navy Special.

^d Liquefied petroleum gases, primarily propane.

^e Includes E10 (a mixture of 10% ethanol and 90% motor gasoline) and E15 (a mixture of 15% ethanol and 85% motor gasoline).

^f Other types of fuel used in vehicles and equipment. Primarily includes alternative fuels such as compressed natural gas (CNG); liquefied natural gas (LNG); E85 (a mixture of 85% ethanol and 15% motor gasoline); B20 (a mixture of 20% biodiesel and 80% diesel fuel); B100 (100% biodiesel); hydrogen; and methanol.

^g Other types of energy used in facilities. Primarily includes chilled water, but also includes small amounts of renewable energy such as wood and solar thermal.

Notes: • Data in this table are developed using conversion factors that often differ from those in Tables A1–A6. • Data include energy consumed at foreign installations and in foreign operations, including aviation and ocean bunkering, primarily by the U.S. Department of Defense. U.S. Government energy use for electricity generation and uranium enrichment is excluded. • Totals may not equal sum of components due to independent rounding.

Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#consumption> (Excel and CSV files) for all annual data beginning in 1975.

Source: U.S. Department of Energy, Office of Energy Efficiency and Renewable Energy, Federal Energy Management Program. See <http://ctsedwweb.ee.doe.gov/Annual/Report/Report.aspx>, "A-5 Historical Federal Energy Consumption and Cost Data by Agency and Energy Type (FY 1975 to Present)" dataset.

Energy Consumption by Sector

Note 1. Electrical System Energy Losses. Electrical system energy losses are calculated as the difference between total primary consumption by the electric power sector (see Table 2.6) and the total energy content of electricity retail sales (see Tables 7.6 and A6). Most of these losses occur at steam-electric power plants (conventional and nuclear) in the conversion of heat energy into mechanical energy to turn electric generators. The loss is a thermodynamically necessary feature of the steam-electric cycle. Part of the energy input-to-output losses is a result of imputing fossil energy equivalent inputs for hydroelectric, geothermal, solar thermal, photovoltaic, and wind energy sources. In addition to conversion losses, other losses include power plant use of electricity, transmission and distribution of electricity from power plants to end-use consumers (also called "line losses"), and unaccounted-for electricity. Total losses are allocated to the end-use sectors in proportion to each sector's share of total electricity sales. Overall, about two thirds of total energy input is lost in conversion. Currently, of electricity generated, approximately 5% is lost in plant use and 7% is lost in transmission and distribution.

Note 2. Energy Consumption Data and Surveys. Most of the data in this section of the *Monthly Energy Review (MER)* are developed from a group of energy-related surveys, typically called "supply surveys," conducted by the U.S. Energy Information Administration (EIA). Supply surveys are directed to suppliers and marketers of specific energy sources. They measure the quantities of specific energy sources produced, or the quantities supplied to the market, or both. The data obtained from EIA's supply surveys are integrated to yield the summary consumption statistics published in this section (and in Section 1) of the MER.

Users of EIA's energy consumption statistics should be aware of a second group of energy-related surveys, typically called "consumption surveys." Consumption surveys gather information on the types of energy consumed by end users of energy, along with the characteristics of those end users that can be associated with energy use. For example, the "Manufacturing Energy Consumption Survey" belongs to the consumption survey group because it collects information directly from end users (the manufacturing establishments). There are important differences between the supply and consumption surveys that need to be taken into account in any analysis that uses both data sources. For information on those differences, see "Energy Consumption by End-Use Sector, A Comparison of Measures by Consumption and Supply Surveys," DOE/EIA-0533, U.S. Energy Information Administration, Washington, DC, April 6, 1990.

Table 2.2 Sources

Coal

1949–2007: Residential sector coal consumption data from Table 6.2 are converted to Btu by multiplying by the

residential and commercial sectors coal consumption heat content factors in Table A5.

Natural Gas

1949–1979: Residential sector natural gas (including supplemental gaseous fuels) consumption data from Table 4.3 are converted to Btu by multiplying by the natural gas end-use sectors consumption heat content factors in Table A4.

1980 forward: Residential sector natural gas (including supplemental gaseous fuels) consumption data from Table 4.3 are converted to Btu by multiplying by the natural gas end-use sectors consumption heat content factors in Table A4. The residential sector portion of supplemental gaseous fuels data in Btu is estimated using the method described in Note 3, "Supplemental Gaseous Fuels," at the end of Section 4. Residential sector natural gas (excluding supplemental gaseous fuels) consumption is equal to residential sector natural gas (including supplemental gaseous fuels) consumption minus the residential sector portion of supplemental gaseous fuels.

Petroleum

1949 forward: Table 3.8a.

Fossil Fuels Total

1949–2007: Residential sector total fossil fuels consumption is the sum of the residential sector consumption values for coal, natural gas, and petroleum.

2008 forward: Residential sector total fossil fuels consumption is the sum of the residential sector consumption values for natural gas and petroleum.

Renewable Energy

1949 forward: Table 10.2a.

Total Primary Energy Consumption

1949 forward: Residential sector total primary energy consumption is the sum of the residential sector consumption values for fossil fuels and renewable energy.

Electricity Retail Sales

1949 forward: Residential sector electricity retail sales from Table 7.6 are converted to Btu by multiplying by the electricity heat content factor in Table A6.

Electrical System Energy Losses

1949 forward: Total electrical system energy losses are equal to electric power sector total primary energy consumption from Table 2.6 minus total electricity retail sales from Table 7.6 (converted to Btu by multiplying by the electricity heat content factor in Table A6). Total electrical system energy losses are allocated to the residential sector in proportion to the residential sector's share of total electricity retail sales from Table 7.6. See Note 1, "Electrical System Energy Losses."

Total Energy Consumption

1949 forward: Residential sector total energy consumption is the sum of the residential sector consumption values for

total primary energy, electricity retail sales, and electrical system energy losses.

Table 2.3 Sources

Coal

1949 forward: Commercial sector coal consumption data from Table 6.2 are converted to Btu by multiplying by the residential and commercial sectors coal consumption heat content factors in Table A5.

Natural Gas

1949–1979: Commercial sector natural gas (including supplemental gaseous fuels) consumption data from Table 4.3 are converted to Btu by multiplying by the natural gas end-use sectors consumption heat content factors in Table A4.

1980 forward: Commercial sector natural gas (including supplemental gaseous fuels) consumption data from Table 4.3 are converted to Btu by multiplying by the natural gas end-use sectors consumption heat content factors in Table A4. The commercial sector portion of supplemental gaseous fuels data in Btu is estimated using the method described in Note 3, “Supplemental Gaseous Fuels,” at the end of Section 4. Commercial sector natural gas (excluding supplemental gaseous fuels) consumption is equal to commercial sector natural gas (including supplemental gaseous fuels) consumption minus the commercial sector portion of supplemental gaseous fuels.

Petroleum

1949–1992: Table 3.8a.

1993–2008: The commercial sector share of motor gasoline consumption is equal to commercial sector motor gasoline consumption from Table 3.7a divided by motor gasoline product supplied from Table 3.5. Commercial sector fuel ethanol (including denaturant) consumption is equal to total fuel ethanol (including denaturant) consumption from Table 10.3 multiplied by the commercial sector share of motor gasoline consumption. Commercial sector petroleum (excluding biofuels) consumption is equal to commercial sector petroleum (including biofuels) consumption from Table 3.8a minus commercial sector fuel ethanol (including denaturant) consumption.

2009 forward: Commercial sector fuel ethanol (minus denaturant) consumption is equal to total fuel ethanol (minus denaturant) consumption from Table 10.3 multiplied by the commercial sector share of motor gasoline consumption (see 1993–2008 sources above). Commercial sector petroleum (excluding biofuels) consumption is equal to commercial sector petroleum (including biofuels) consumption from Table 3.8a minus commercial sector fuel ethanol (minus denaturant) consumption.

Fossil Fuels Total

1949 forward: Commercial sector total fossil fuels consumption is the sum of the commercial sector consumption values for coal, natural gas, and petroleum.

Renewable Energy

1949 forward: Table 10.2a.

Total Primary Energy Consumption

1949 forward: Commercial sector total primary energy consumption is the sum of the commercial sector consumption values for fossil fuels and renewable energy.

Electricity Retail Sales

1949 forward: Commercial sector electricity retail sales from Table 7.6 are converted to Btu by multiplying by the electricity heat content factor in Table A6.

Electrical System Energy Losses

1949 forward: Total electrical system energy losses are equal to electric power sector total primary energy consumption from Table 2.6 minus total electricity retail sales from Table 7.6 (converted to Btu by multiplying by the electricity heat content factor in Table A6). Total electrical system energy losses are allocated to the commercial sector in proportion to the commercial sector’s share of total electricity retail sales from Table 7.6. See Note 1, “Electrical System Energy Losses.”

Total Energy Consumption

1949 forward: Commercial sector total energy consumption is the sum of the commercial sector consumption values for total primary energy, electricity retail sales, and electrical system energy losses.

Table 2.4 Sources

Coal

1949 forward: Coke plants coal consumption from Table 6.2 is converted to Btu by multiplying by the coke plants coal consumption heat content factors in Table A5. Other industrial coal consumption from Table 6.2 is converted to Btu by multiplying by the other industrial coal consumption heat content factors in Table A5. Industrial sector coal consumption is equal to coke plants coal consumption and other industrial coal consumption.

Natural Gas

1949–1979: Industrial sector natural gas (including supplemental gaseous fuels) consumption data from Table 4.3 are converted to Btu by multiplying by the natural gas end-use sectors consumption heat content factors in Table A4.

1980 forward: Industrial sector natural gas (including supplemental gaseous fuels) consumption data from Table 4.3 are converted to Btu by multiplying by the natural gas end-use sectors consumption heat content factors in Table A4. The industrial sector portion of supplemental gaseous fuels data in Btu is estimated using the method described in Note 3, “Supplemental Gaseous Fuels,” at the end of Section 4. Industrial sector natural gas (excluding supplemental gaseous fuels) consumption is equal to industrial sector natural gas (including supplemental gaseous fuels) consumption minus the industrial sector portion of supplemental gaseous fuels.

Petroleum

1949–1992: Table 3.8b.

1993–2008: The industrial sector share of motor gasoline consumption is equal to industrial sector motor gasoline consumption from Table 3.7b divided by motor gasoline product supplied from Table 3.5. Industrial sector fuel ethanol (including denaturant) consumption is equal to total fuel ethanol (including denaturant) consumption from Table 10.3 multiplied by the industrial sector share of motor gasoline consumption. Industrial sector petroleum (excluding biofuels) consumption is equal to industrial sector petroleum (including biofuels) consumption from Table 3.8b minus industrial sector fuel ethanol (including denaturant) consumption.

2009 forward: Industrial sector fuel ethanol (minus denaturant) consumption is equal to total fuel ethanol (minus denaturant) consumption from Table 10.3 multiplied by the industrial sector share of motor gasoline consumption (see 1993–2008 sources above). Industrial sector petroleum (excluding biofuels) consumption is equal to industrial sector petroleum (including biofuels) consumption from Table 3.8b minus industrial sector fuel ethanol (minus denaturant) consumption.

Coal Coke Net Imports

1949 forward: Coal coke net imports are equal to coal coke imports from Table 1.4a minus coal coke exports from Table 1.4b.

Fossil Fuels Total

1949 forward: Industrial sector total fossil fuels consumption is the sum of the industrial sector consumption values for coal, natural gas, and petroleum, plus coal coke net imports.

Renewable Energy

1949 forward: Table 10.2b.

Total Primary Energy Consumption

1949 forward: Industrial sector total primary energy consumption is the sum of the industrial sector consumption values for fossil fuels and renewable energy.

Electricity Retail Sales

1949 forward: Industrial sector electricity retail sales from Table 7.6 are converted to Btu by multiplying by the electricity heat content factor in Table A6.

Electrical System Energy Losses

1949 forward: Total electrical system energy losses are equal to electric power sector total primary energy consumption from Table 2.6 minus total electricity retail sales from Table 7.6 (converted to Btu by multiplying by the electricity heat content factor in Table A6). Total electrical system energy losses are allocated to the industrial sector in proportion to the industrial sector's share of total electricity retail sales from Table 7.6. See Note 1, "Electrical System Energy Losses."

Total Energy Consumption

1949 forward: Industrial sector total energy consumption is the sum of the industrial sector consumption values for total primary energy, electricity retail sales, and electrical system energy losses.

Table 2.5 Sources

Coal

1949–1977: Transportation sector coal consumption data from Table 6.2 are converted to Btu by multiplying by the other industrial sector coal consumption heat content factors in Table A5.

Natural Gas

1949 forward: Transportation sector natural gas consumption data from Table 4.3 are converted to Btu by multiplying by the natural gas end-use sectors consumption heat content factors in Table A4.

Petroleum

1949–1992: Table 3.8c.

1993–2008: The transportation sector share of motor gasoline consumption is equal to transportation sector motor gasoline consumption from Table 3.7c divided by motor gasoline product supplied from Table 3.5. Transportation sector fuel ethanol (including denaturant) consumption is equal to total fuel ethanol (including denaturant) consumption from Table 10.3 multiplied by the transportation sector share of motor gasoline consumption. Transportation sector petroleum (excluding biofuels) consumption is equal to transportation sector petroleum (including biofuels) consumption from Table 3.8c minus transportation sector fuel ethanol (including denaturant) consumption.

2009 forward: Transportation sector fuel ethanol (minus denaturant) consumption is equal to total fuel ethanol (minus denaturant) consumption from Table 10.3 multiplied by the transportation sector share of motor gasoline consumption (see 1993–2008 sources above). Transportation sector petroleum (excluding biofuels) consumption is equal to: transportation sector petroleum (including biofuels) consumption from Table 3.8c; minus transportation sector fuel ethanol (minus denaturant) consumption; minus refinery and blender net inputs of renewable fuels (excluding fuel ethanol) from U.S. Energy Information Administration, *Petroleum Supply Annual/Petroleum Supply Monthly*, Table 1 (for biomass-based diesel fuel, the data are converted to Btu by multiplying by the biodiesel heat content factor in Table A1; for other renewable diesel fuel, the data are converted to Btu by multiplying by the other renewable diesel fuel heat content factor in Table A1).

Fossil Fuels Total

1949–1977: Transportation sector total fossil fuels consumption is the sum of the transportation sector consumption values for coal, natural gas, and petroleum.

1978 forward: Transportation sector total fossil fuels consumption is the sum of the transportation sector consumption values for natural gas and petroleum.

Renewable Energy

1981 forward: Table 10.2b.

Total Primary Energy Consumption

1949–1980: Transportation sector total primary energy consumption is equal to transportation sector fossil fuels consumption.

1981 forward: Transportation sector total primary energy consumption is the sum of the transportation sector consumption values for fossil fuels and renewable energy.

Electricity Retail Sales

1949 forward: Transportation sector electricity retail sales from Table 7.6 are converted to Btu by multiplying by the electricity heat content factor in Table A6.

Electrical System Energy Losses

1949 forward: Total electrical system energy losses are equal to electric power sector total primary energy consumption from Table 2.6 minus total electricity retail sales from Table 7.6 (converted to Btu by multiplying by the electricity heat content factor in Table A6). Total electrical system energy losses are allocated to the transportation sector in proportion to the transportation sector's share of total electricity retail sales from Table 7.6. See Note 1, "Electrical System Energy Losses."

Total Energy Consumption

1949 forward: Transportation sector total energy consumption is the sum of the transportation sector consumption values for total primary energy, electricity retail sales, and electrical system energy losses.

Table 2.6 Sources

Coal

1949 forward: Electric power sector coal consumption data from Table 6.2 are converted to Btu by multiplying by the electric power sector coal consumption heat content factors in Table A5.

Natural Gas

1949–1979: Electric power sector natural gas (including supplemental gaseous fuels) consumption data from Table 4.3 are converted to Btu by multiplying by the natural gas electric power sector consumption heat content factors in Table A4.

1980 forward: Electric power sector natural gas (including supplemental gaseous fuels) consumption data from Table 4.3 are converted to Btu by multiplying by the natural gas electric power sector consumption heat content factors in Table A4. The electric power sector portion of supplemental gaseous fuels data in Btu is estimated using the method described in Note 3, "Supplemental Gaseous Fuels," at the end of Section 4. Electric power sector natural gas (excluding supplemental gaseous fuels) consumption is equal to electric power sector natural gas (including supplemental gaseous fuels) consumption minus the electric power sector portion of supplemental gaseous fuels.

Petroleum

1949 forward: Table 3.8c.

Fossil Fuels Total

1949 forward: Electric power sector total fossil fuels consumption is the sum of the electric power sector consumption values for coal, natural gas, and petroleum.

Nuclear Electric Power

1949 forward: Nuclear electricity net generation data from Table 7.2a are converted to Btu by multiplying by the nuclear heat rate factors in Table A6.

Renewable Energy

1949 forward: Table 10.2c.

Electricity Net Imports

1949 forward: Electricity net imports are equal to electricity imports from Table 1.4a minus electricity exports from Table 1.4b.

Total Primary Energy Consumption

1949 forward: Electric power sector total primary energy consumption is the sum of the electric power sector consumption values for fossil fuels, nuclear electric power, and renewable energy, plus electricity net imports.

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