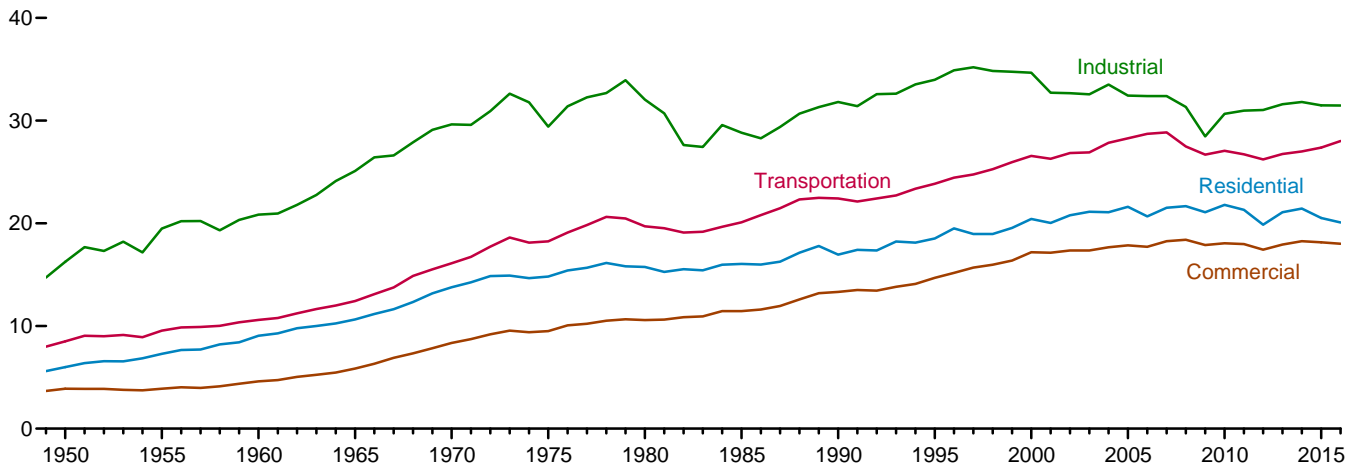


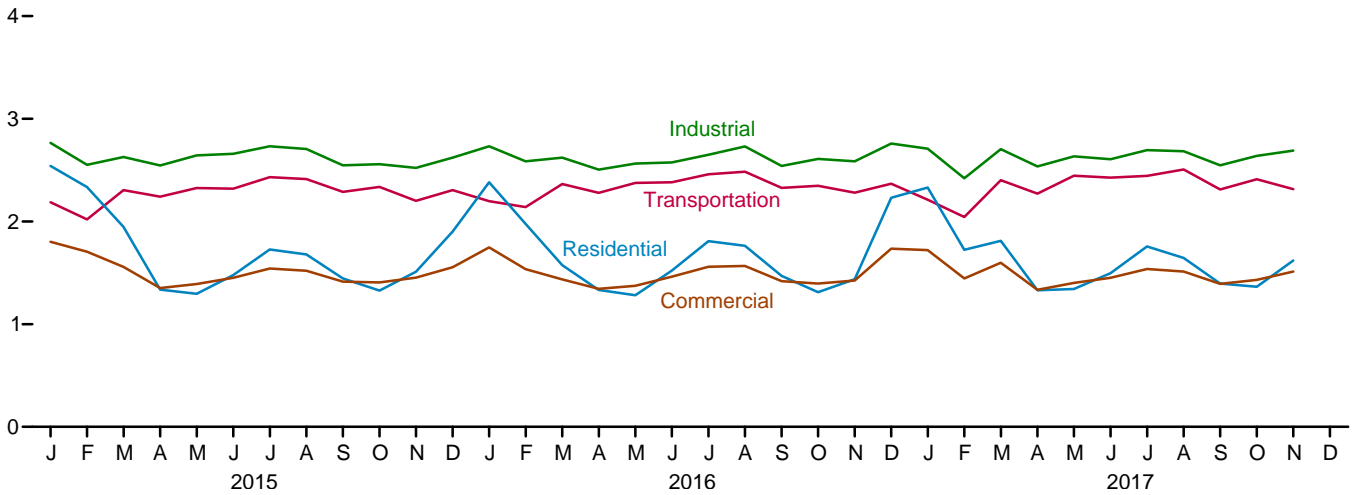
2. Energy Consumption by Sector

Figure 2.1 Energy Consumption by Sector
(Quadrillion Btu)

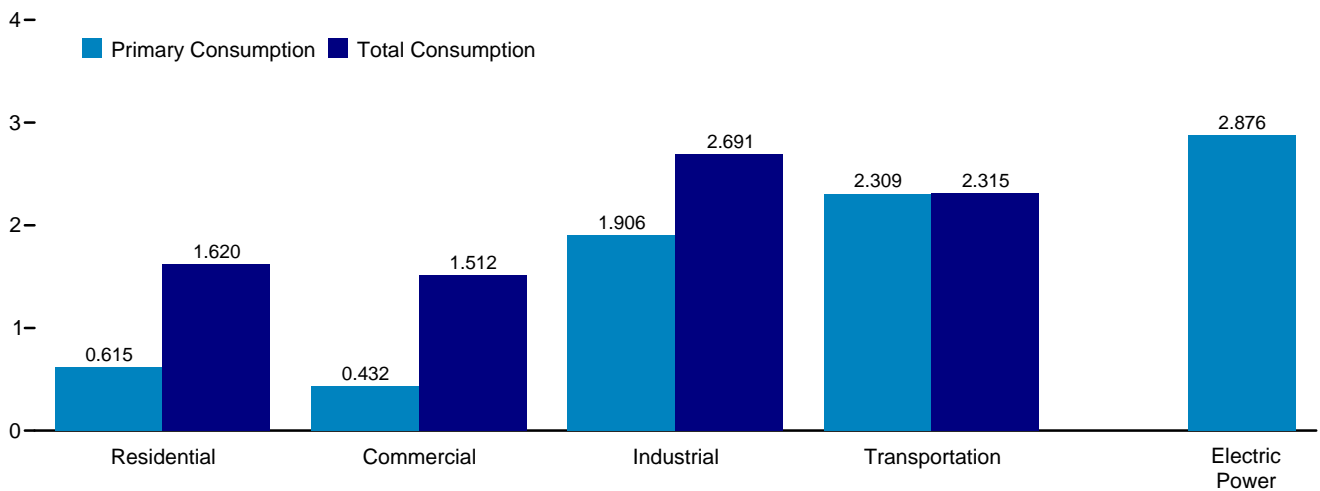
Total Consumption by End-Use Sector, 1949–2016



Total Consumption by End-Use Sector, Monthly



By Sector, November 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 ^f
	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	38,700	-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	18,958	R 20,413	R 30,661	26,978	27,059	39,619	7	R 97,580
2011 Total	6,393	21,302	4,063	17,979	R 20,588	R 30,975	26,632	26,712	39,293	8	R 96,975
2012 Total	5,672	19,857	3,725	17,422	R 20,961	R 31,034	26,144	26,219	38,131	2	R 94,535
2013 Total	6,706	21,089	4,164	17,932	R 21,444	R 31,591	26,671	26,750	38,357	-1	R 97,341
2014 Total	6,989	21,428	4,380	18,254	R 21,572	R 31,808	26,917	26,996	38,629	6	R 98,493
2015											
January	1,137	2,540	R 666	1,803	R 1,954	R 2,765	2,180	R 2,187	3,357	-1	R 9,294
February	1,083	2,335	639	1,706	R 1,776	R 2,552	R 2,013	2,020	3,103	1	R 8,614
March	795	1,947	R 498	1,558	R 1,845	R 2,628	2,298	R 2,305	3,002	-2	R 8,437
April	444	1,336	R 322	1,352	R 1,750	R 2,546	R 2,236	2,242	2,723	-3	R 7,472
May	304	1,295	251	1,390	R 1,779	R 2,643	2,319	R 2,326	3,002	-1	R 7,654
June	232	1,479	R 215	1,451	R 1,765	R 2,659	R 2,314	R 2,320	3,383	2	R 7,911
July	222	1,728	R 218	1,543	R 1,828	R 2,732	2,425	R 2,432	3,741	5	R 8,440
August	221	1,680	R 222	1,519	R 1,814	R 2,706	R 2,407	2,413	3,655	5	R 8,323
September	220	1,445	R 220	1,414	R 1,719	R 2,547	R 2,282	R 2,288	3,251	3	R 7,696
October	359	1,327	R 306	1,406	R 1,747	R 2,558	2,330	2,336	2,886	-2	R 7,627
November	573	1,511	R 399	1,453	R 1,728	R 2,523	R 2,196	R 2,202	2,792	-3	R 7,686
December	778	1,902	479	1,554	R 1,835	R 2,622	R 2,299	R 2,305	2,993	-2	R 8,380
Total	6,367	20,520	R 4,435	R 18,151	R 21,541	R 31,485	R 27,299	R 27,376	37,890	1	R 97,533
2016											
January	1,050	2,382	R 625	1,748	R 1,929	R 2,732	R 2,191	R 2,198	3,265	4	R 9,065
February	848	1,976	R 529	1,536	R 1,838	R 2,585	R 2,134	R 2,141	2,888	(s)	R 8,238
March	595	1,574	R 403	1,436	R 1,848	R 2,622	R 2,359	R 2,365	2,793	-4	R 7,993
April	454	1,333	R 327	1,343	R 1,722	R 2,505	R 2,273	R 2,279	2,685	-3	R 7,459
May	317	1,282	R 263	1,374	R 1,729	R 2,564	R 2,370	R 2,376	2,916	-1	R 7,595
June	230	1,521	R 221	1,462	R 1,712	R 2,575	R 2,375	R 2,382	3,402	5	R 7,946
July	220	1,809	R 221	1,559	R 1,753	R 2,649	R 2,453	R 2,459	3,831	8	R 8,485
August	206	1,763	R 223	1,567	R 1,843	R 2,730	R 2,478	R 2,484	3,794	9	R 8,553
September	223	1,470	R 229	1,419	R 1,739	R 2,541	R 2,321	R 2,327	3,245	5	R 7,761
October	317	1,311	R 288	1,395	R 1,810	R 2,609	R 2,341	R 2,347	2,906	2	R 7,664
November	512	1,438	R 381	1,425	R 1,807	R 2,586	R 2,274	R 2,280	2,755	(s)	R 7,729
December	972	2,231	R 592	1,735	R 1,943	R 2,758	R 2,361	R 2,367	3,224	4	R 9,095
Total	5,942	20,083	R 4,301	R 18,002	R 21,674	R 31,462	R 27,931	R 28,006	37,705	R 30	R 97,583
2017											
January	1,013	2,330	R 608	1,721	R 1,935	R 2,709	R 2,205	R 2,212	3,211	4	R 9,976
February	726	1,724	R 466	1,446	R 1,710	R 2,420	R 2,038	R 2,044	2,695	-1	R 7,633
March	733	1,811	R 484	1,598	R 1,894	R 2,704	R 2,395	R 2,401	3,009	-1	R 8,515
April	411	1,330	R 309	1,334	R 1,769	R 2,536	R 2,265	R 2,271	2,717	-2	R 7,469
May	321	1,343	R 270	1,402	R 1,806	R 2,634	R 2,440	R 2,446	2,989	(s)	R 7,825
June	246	1,497	R 231	1,451	R 1,762	R 2,606	R 2,421	R 2,427	3,321	3	R 7,985
July	222	R 1,756	R 219	1,538	R 1,827	R 2,695	R 2,437	R 2,444	R 3,728	R 6	R 8,439
August	218	R 1,644	R 228	1,512	R 1,821	R 2,684	R 2,501	R 2,507	R 3,580	R 5	R 8,352
September	229	R 1,395	231	1,392	R 1,760	R 2,547	R 2,305	R 2,311	R 3,120	1	R 7,645
October	R 329	R 1,363	294	1,431	R 1,840	R 2,639	R 2,405	R 2,411	R 2,977	-5	R 7,839
November	615	1,620	432	1,512	1,906	2,691	2,309	2,315	2,876	-2	8,136
11-Month Total	5,062	17,815	3,771	16,336	20,029	28,865	25,719	25,789	34,223	9	88,813
2016 11-Month Total	4,971	17,860	3,709	16,264	19,731	28,700	25,570	25,638	34,481	26	88,488
2015 11-Month Total	5,590	18,623	3,957	16,595	19,705	28,859	25,000	25,071	34,896	4	89,153

^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.

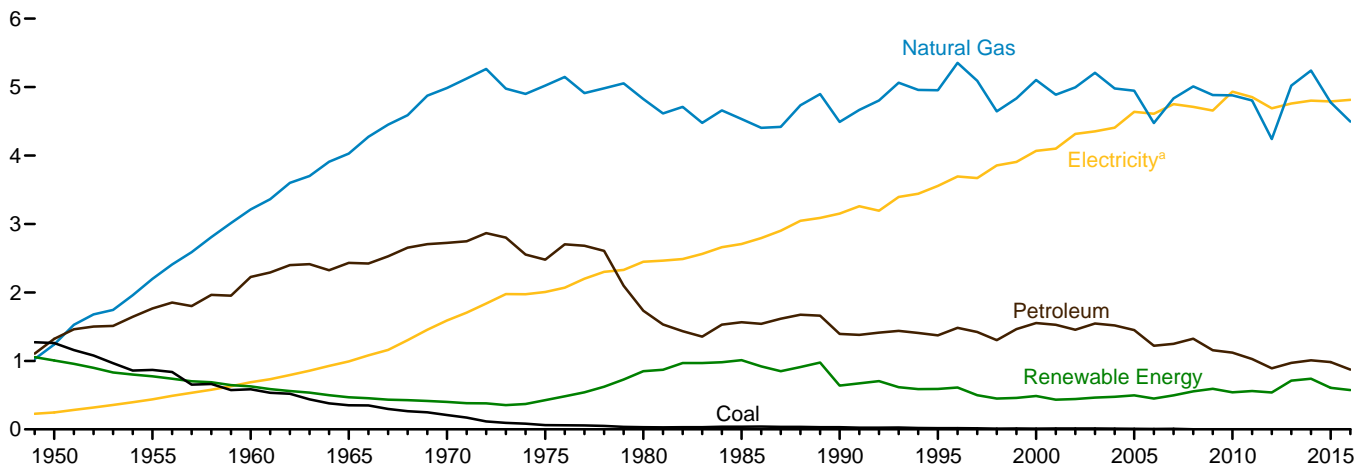
Notes: • Data are estimates, except for the electric power sector. • See Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7. • See Note 2, "Energy Consumption Data and Surveys," at end of section. • Totals may not equal sum of components due to independent rounding. • 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.

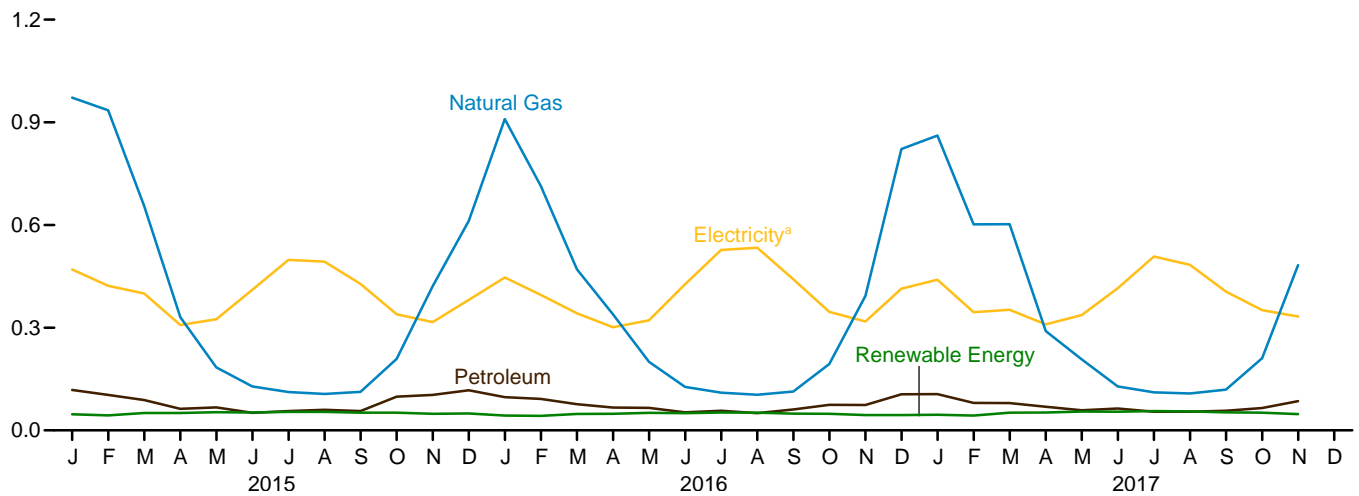
• **Primary Total:** Table 1.3.

Figure 2.2 Residential Sector Energy Consumption
(Quadrillion Btu)

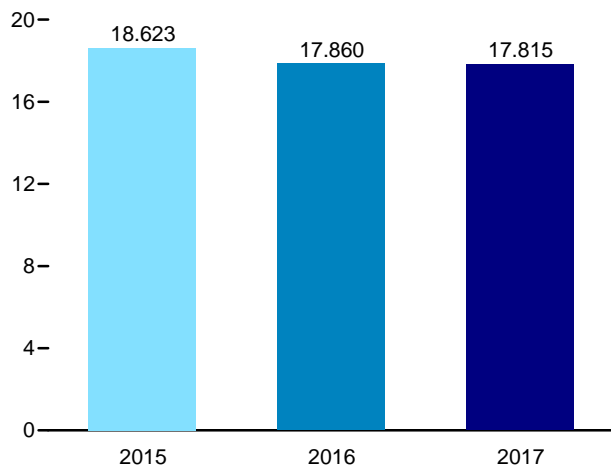
By Major Source, 1949–2016



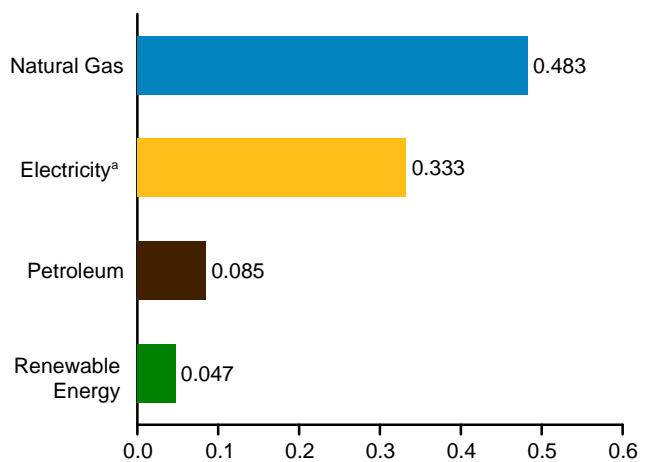
By Major Source, Monthly



Total, January–November



By Major Source, November 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)

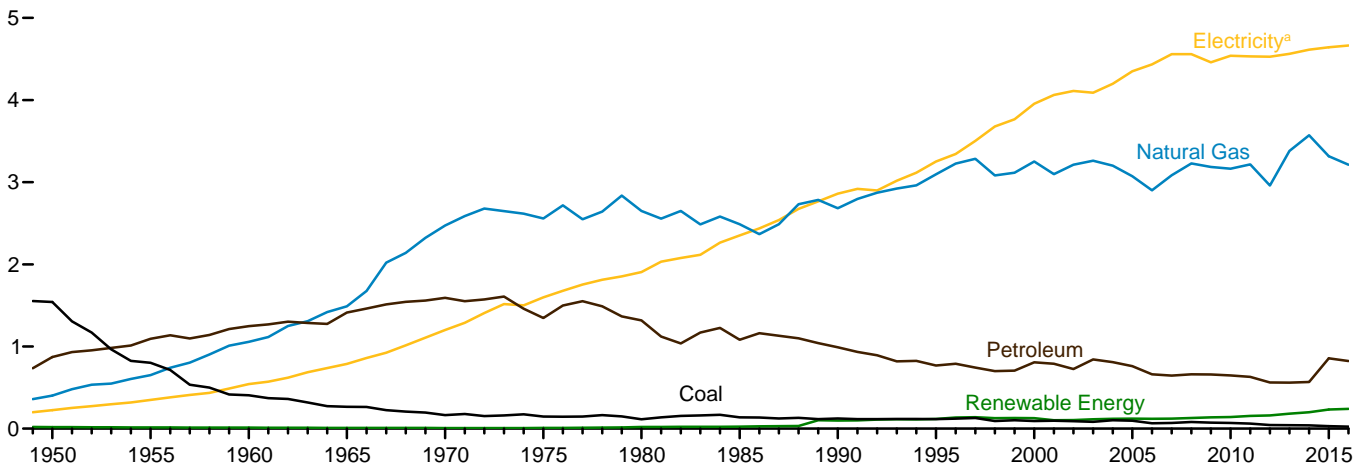
	Primary Consumption ^a									Electricity Retail Sales ^e	Electrical System Energy Losses ^f	Total
	Fossil Fuels				Renewable Energy ^b				Total Primary			
	Coal	Natural Gas ^c	Petroleum	Total	Geo-thermal	Solar ^d	Bio-mass	Total				
1950 Total	1,261	1,240	1,322	3,824	NA	NA	1,006	1,006	4,829	246	913	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	10,339
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	NA	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	19,557
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	129	51	180	3	13	36	52	232	410	1,036	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	97	1,007	3	8	32	43	1,050	447	886	2,382
February	NA	714	92	806	3	10	30	42	848	396	733	1,976
March	NA	471	76	547	3	13	32	48	595	342	637	1,574
April	NA	339	67	406	3	15	31	48	454	301	578	1,333
May	NA	200	66	266	3	16	32	51	317	321	643	1,282
June	NA	127	53	179	3	17	31	50	230	427	864	1,521
July	NA	110	57	168	3	17	32	52	220	527	1,062	1,809
August	NA	104	50	154	3	17	32	52	206	534	1,023	1,763
September	NA	113	61	175	3	15	31	49	223	441	805	1,470
October	NA	194	75	268	3	13	32	48	317	346	648	1,311
November	NA	393	74	467	3	11	31	45	512	318	608	1,438
December	NA	822	106	927	3	10	32	45	972	414	844	2,231
Total	NA	4,496	873	5,369	40	161	373	573	5,942	4,815	9,326	20,083
2017 January	NA	861	106	967	3	10	32	46	1,013	440	877	2,330
February	NA	602	80	682	3	11	29	43	726	345	654	1,724
March	NA	602	80	682	3	16	32	51	733	352	726	1,811
April	NA	290	69	359	3	18	31	52	411	310	609	1,330
May	NA	208	58	266	3	19	32	55	321	337	685	1,343
June	NA	128	64	192	3	20	31	54	246	416	835	1,497
July	NA	111	54	166	3	20	32	56	222	508	^R 1,027	^R 1,756
August	NA	108	55	162	3	20	32	56	218	484	^R 943	^R 1,644
September	NA	119	57	176	3	18	31	52	229	405	^R 761	^R 1,395
October	NA	^R 211	^R 65	^R 276	3	16	32	52	^R 328	351	684	^R 1,363
November	NA	483	85	568	3	13	31	47	615	333	672	1,620
11-Month Total ...	NA	3,723	774	4,497	36	180	349	565	5,062	4,281	8,472	17,815
2016 11-Month Total ...	NA	3,674	768	4,442	36	151	341	528	4,971	4,401	8,489	17,860
2015 11-Month Total ...	NA	4,166	866	5,032	36	119	403	558	5,590	4,410	8,623	18,623

^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

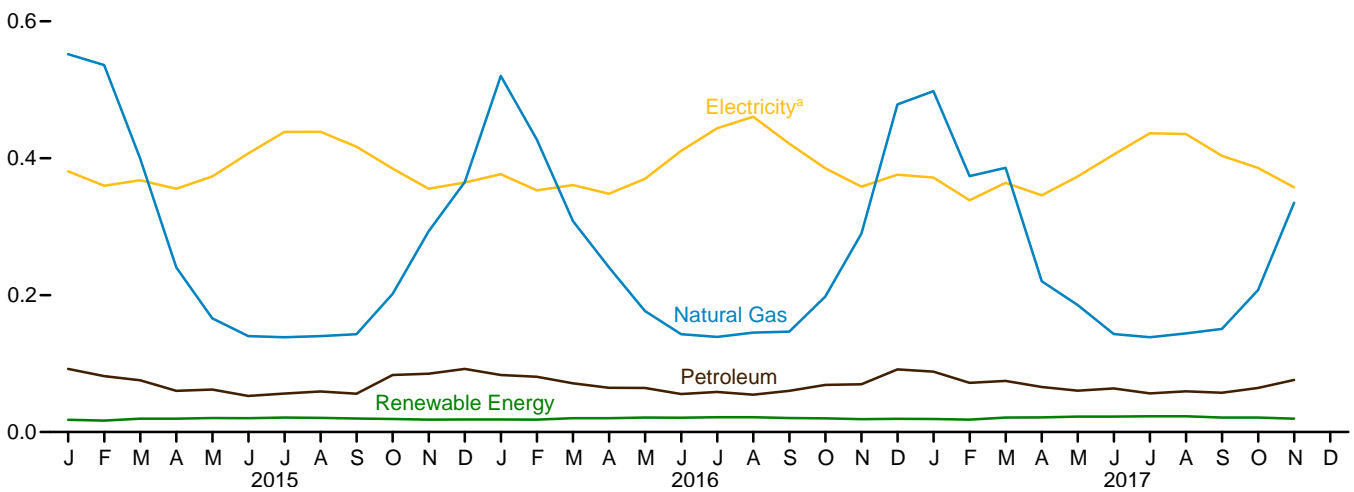
electricity retail sales. See Note 1, "Electrical System Energy Losses," at end of section.
R=Revised. NA=Not available.
Notes: • Data are estimates, except for electricity retail sales. • See Note 2, "Energy Consumption Data and Surveys," at end of section. • Totals may not equal sum of components due 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)

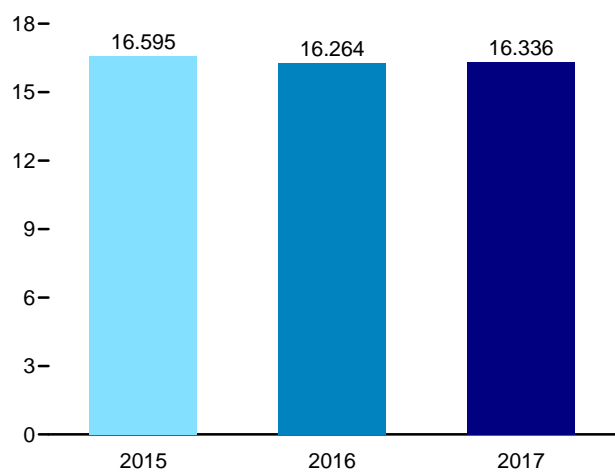
By Major Source, 1949–2016



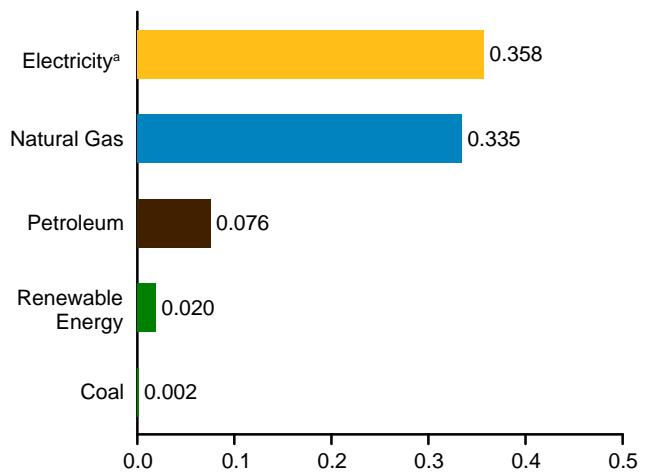
By Major Source, Monthly



Total, January–November



By Major Source, November 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)

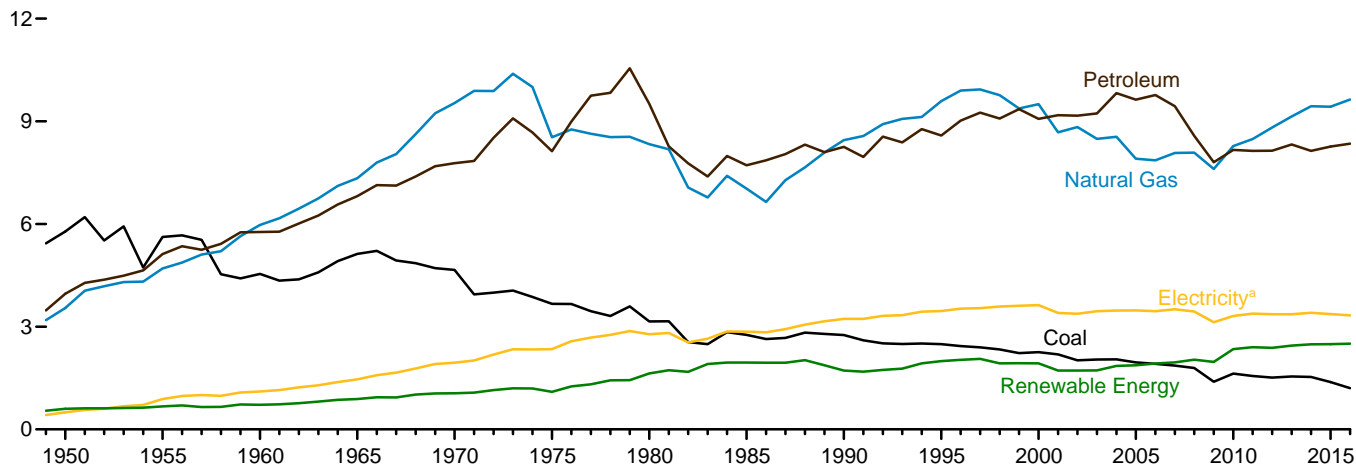
	Primary Consumption ^a										Total Primary	Elec- tricity Retail Sales ^g	Electrical System Energy Losses ^h	Total
	Fossil Fuels				Renewable Energy ^b									
	Coal	Natural Gas ^c	Petro- leum ^d	Total	Hydro- electric Power ^e	Geo- thermal	Solar ^f	Wind	Bio- mass	Total				
1950 Total	1,542	401	872	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	R 92	R 648	(s)	2	3	(s)	13	18	R 666	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	R 19	R 498	368	692	R 1,558
April	2	240	R 60	303	(s)	2	5	(s)	13	20	R 322	355	674	R 1,352
May	2	166	R 62	R 230	(s)	2	6	(s)	13	21	251	373	767	R 1,390
June	2	140	53	R 195	(s)	2	6	(s)	13	20	R 215	407	829	R 1,451
July	2	138	R 56	197	(s)	2	6	(s)	R 13	21	R 218	438	886	1,543
August	2	140	R 59	201	(s)	2	6	(s)	13	21	R 222	439	859	R 1,519
September	2	143	R 56	201	(s)	2	5	(s)	13	20	R 220	417	776	1,414
October	2	202	R 83	R 287	(s)	2	5	(s)	13	19	R 306	385	715	R 1,406
November	2	293	R 85	R 381	(s)	2	4	(s)	13	18	R 399	355	698	1,453
December	3	365	R 92	R 460	(s)	2	3	(s)	13	18	479	365	711	1,554
Total	31	3,316	R 856	R 4,203	(s)	20	57	1	154	232	R 4,435	4,643	9,073	R 18,151
2016 January	3	520	R 83	R 607	(s)	2	3	(s)	13	18	R 625	377	747	R 1,748
February	3	427	R 81	R 511	(s)	2	4	(s)	12	18	R 529	353	654	R 1,536
March	3	308	R 71	R 382	(s)	2	5	(s)	13	20	R 403	361	672	R 1,436
April	R 1	241	R 65	R 307	(s)	2	6	(s)	13	20	R 327	348	668	R 1,343
May	1	177	R 64	R 242	(s)	2	6	(s)	13	21	R 263	370	741	R 1,374
June	R 2	143	R 56	R 200	(s)	2	6	(s)	13	21	R 221	411	831	R 1,462
July	1	139	R 59	R 199	(s)	2	6	(s)	R 13	22	R 221	444	895	R 1,559
August	1	145	R 55	R 201	(s)	2	6	(s)	R 13	22	R 223	461	883	R 1,567
September	1	147	R 60	R 208	(s)	2	6	(s)	13	20	R 220	421	769	R 1,419
October	2	198	R 69	R 268	(s)	2	5	(s)	13	20	R 288	385	721	R 1,395
November	2	290	R 70	R 362	(s)	2	4	(s)	13	19	R 381	358	685	R 1,425
December	3	479	R 81	R 673	(s)	2	4	(s)	13	19	R 592	376	767	R 1,735
Total	24	3,213	R 823	R 4,060	2	20	62	1	R 156	R 241	R 4,301	4,665	9,036	R 18,002
2017 January	3	498	R 88	R 589	(s)	2	4	(s)	13	19	R 608	372	741	R 1,721
February	2	374	R 72	R 448	(s)	2	4	(s)	12	18	R 466	338	641	R 1,446
March	2	386	R 75	R 463	(s)	2	6	(s)	13	21	R 484	364	750	R 1,598
April	1	220	R 66	R 288	(s)	2	7	(s)	R 12	21	R 309	346	680	R 1,334
May	1	185	R 60	R 247	(s)	2	8	(s)	13	23	R 270	373	759	R 1,402
June	1	143	R 64	R 208	(s)	2	8	(s)	13	23	R 231	405	815	R 1,451
July	1	R 138	R 56	R 196	(s)	2	8	(s)	13	23	R 219	436	R 882	R 1,538
August	1	144	R 60	R 205	(s)	2	8	(s)	13	23	R 228	435	R 848	R 1,512
September	1	151	R 57	R 209	(s)	2	7	(s)	12	21	231	404	R 757	R 1,392
October	1	207	65	273	(s)	2	6	(s)	13	21	294	386	751	1,431
November	2	335	76	412	(s)	2	5	(s)	13	20	432	358	722	1,512
11-Month Total ...	18	2,782	738	3,538	2	18	72	1	140	233	3,771	4,217	8,347	16,336
2016 11-Month Total ...	21	2,735	732	3,488	2	18	58	1	143	221	3,709	4,289	8,266	16,264
2015 11-Month Total ...	28	2,951	764	3,744	(s)	18	53	1	141	214	3,957	4,278	8,360	16,595

^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

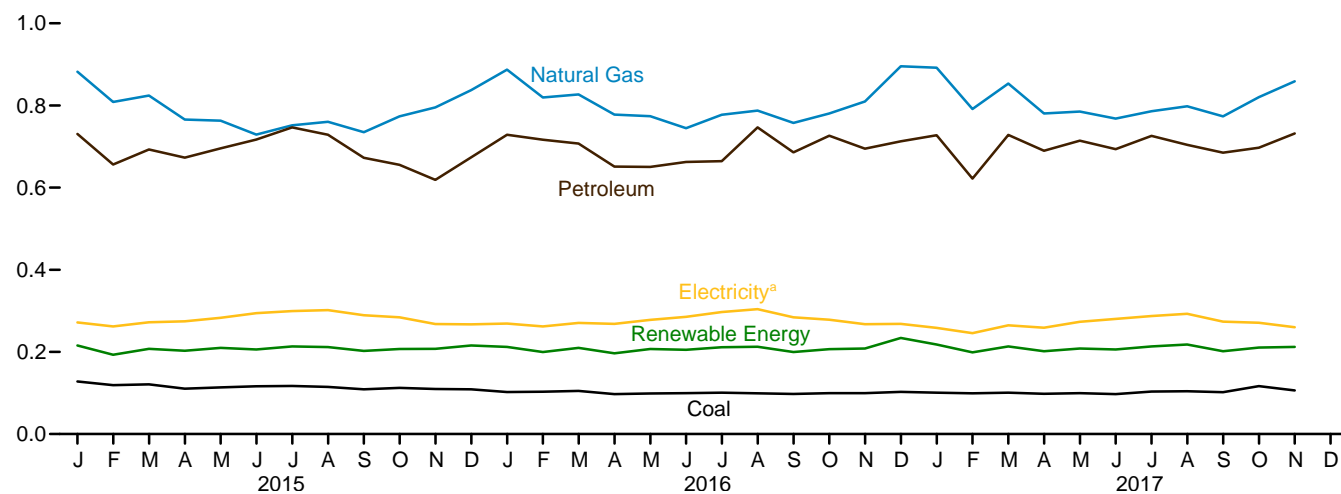
section.
R=Revised. NA=Not available. —=No data reported. (s)=Less than 0.5 trillion Btu.
Notes: • Data are estimates, except for coal totals beginning in 2008; hydroelectric power; solar; wind; and electricity retail sales beginning in 1979.
• The commercial sector includes commercial combined-heat-and-power (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)

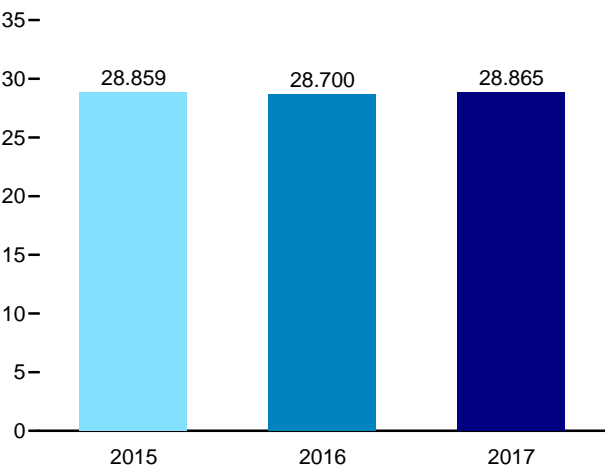
By Major Source, 1949–2016



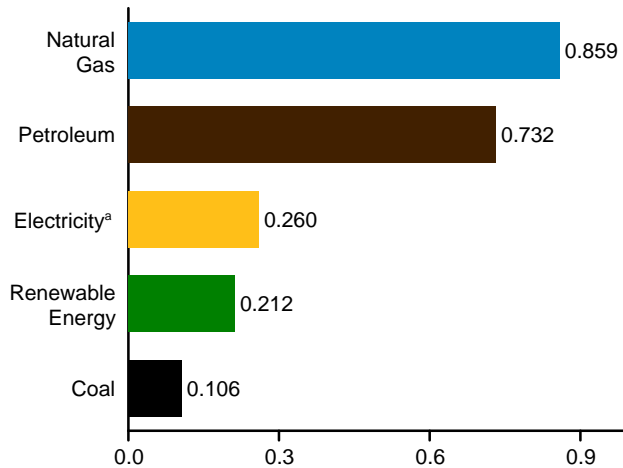
By Major Source, Monthly



Total, January–November



By Major Source, November 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)

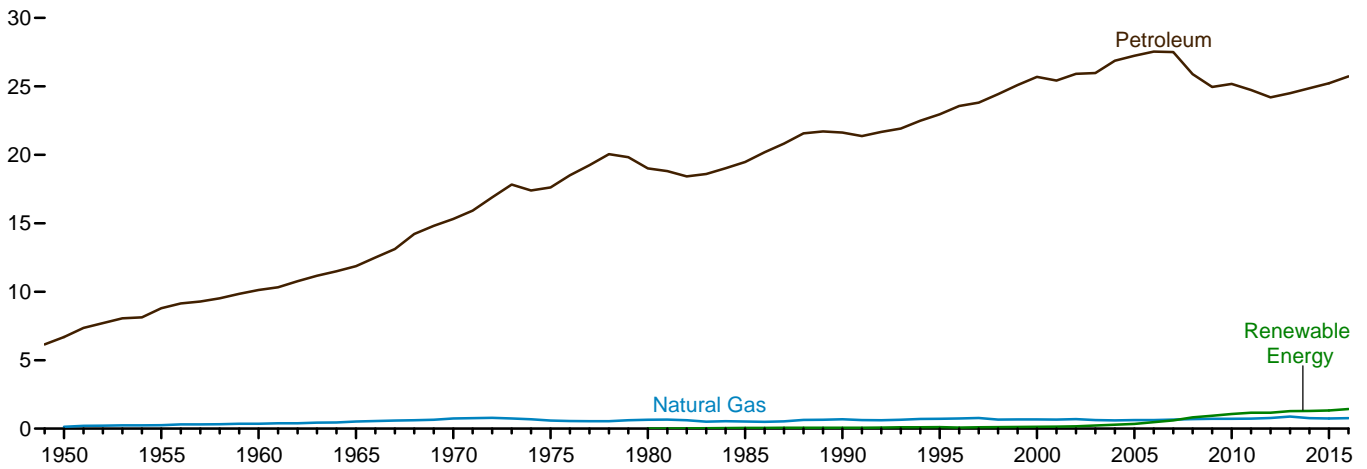
	Primary Consumption ^a										Total Primary	Electricity Retail Sales ⁱ	Electrical System Energy Losses ^j	Total ^f
	Fossil Fuels ^b				Renewable Energy ^c									
	Coal	Natural Gas ^d	Petroleum ^e	Total ^f	Hydroelectric Power ^g	Geothermal	Solar ^h	Wind	Biomass	Total				
1950 Total	5,781	3,546	3,960	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	2	(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	—	R 2,320	R 2,343	R 20,413	3,314	6,934	R 30,661
2011 Total	1,561	8,481	8,135	18,187	17	4	4	(s)	R 2,375	R 2,401	R 20,588	3,382	7,005	R 30,975
2012 Total	1,513	8,819	8,143	18,479	22	4	7	(s)	R 2,349	R 2,382	R 20,861	3,363	6,810	R 31,034
2013 Total	1,546	9,140	8,326	18,995	33	4	9	(s)	R 2,403	R 2,449	R 21,444	3,362	6,785	R 31,591
2014 Total	1,530	9,441	8,138	19,088	12	4	11	1	R 2,456	R 2,484	R 21,572	3,404	6,832	R 31,808
2015 January	128	882	731	1,739	1	(s)	1	(s)	R 213	R 215	R 1,954	272	539	R 2,765
February	119	809	656	1,583	1	(s)	1	(s)	R 191	R 193	R 1,776	262	515	R 2,552
March	121	824	693	1,637	1	(s)	1	(s)	R 205	R 207	R 1,845	272	512	R 2,628
April	110	766	673	1,547	1	(s)	1	(s)	R 200	R 203	R 1,750	275	521	R 2,546
May	114	763	696	1,570	1	(s)	1	(s)	R 207	R 210	R 1,779	283	581	R 2,643
June	116	729	717	1,559	1	(s)	1	(s)	R 203	R 206	R 1,765	294	599	R 2,659
July	117	752	747	1,615	1	(s)	1	(s)	R 210	R 213	R 1,828	299	605	R 2,732
August	115	760	729	1,602	1	(s)	1	(s)	R 209	R 212	R 1,814	302	591	R 2,706
September	109	735	673	1,517	1	(s)	1	(s)	R 200	R 203	R 1,719	289	538	R 2,547
October	112	774	655	1,540	1	(s)	1	(s)	R 204	R 207	R 1,747	284	528	R 2,558
November	110	795	619	1,521	1	(s)	1	(s)	R 205	R 207	R 1,728	268	526	R 2,523
December	109	837	674	1,619	1	(s)	1	(s)	R 213	R 215	R 1,835	267	520	R 2,622
Total	1,380	9,426	8,262	19,049	13	4	14	(s)	R 2,460	R 2,491	R 21,541	3,366	6,578	R 31,482
2016 January	102	887	729	1,717	1	(s)	1	(s)	R 209	R 212	R 1,929	269	533	R 2,732
February	103	819	717	1,639	1	(s)	1	(s)	R 197	R 200	R 1,838	262	485	R 2,585
March	105	827	707	1,639	1	(s)	2	(s)	R 206	R 210	R 1,848	270	504	R 2,622
April	97	778	651	1,525	1	(s)	2	(s)	R 193	R 196	R 1,722	268	515	R 2,505
May	R 99	774	650	1,522	1	(s)	2	(s)	R 204	R 207	R 1,729	278	557	R 2,564
June	R 100	745	663	1,507	1	(s)	2	(s)	R 202	R 205	R 1,712	285	578	R 2,575
July	R 101	777	665	1,541	1	(s)	2	(s)	R 208	R 211	R 1,753	297	599	R 2,649
August	99	788	746	1,631	1	(s)	2	(s)	R 209	R 213	R 1,843	304	583	R 2,730
September	R 98	758	686	1,539	1	(s)	2	(s)	R 197	R 200	R 1,739	284	518	R 2,541
October	99	780	726	1,603	1	(s)	2	(s)	R 204	R 207	R 1,810	278	521	R 2,609
November	99	810	695	1,599	1	(s)	1	(s)	R 206	R 208	R 1,807	268	512	R 2,586
December	R 103	896	713	1,709	1	(s)	1	(s)	R 231	R 234	R 1,943	268	547	R 2,758
Total	R 1,205	9,638	8,347	19,171	12	4	19	1	R 2,467	R 2,503	R 21,674	3,333	6,456	R 31,462
2017 January	R 101	892	727	1,717	1	(s)	1	(s)	R 215	R 218	R 1,935	259	515	R 2,709
February	99	791	622	1,511	1	(s)	1	(s)	R 196	R 199	R 1,710	245	465	R 2,420
March	R 101	853	R 728	R 1,681	1	(s)	2	(s)	R 210	R 213	R 1,894	265	545	R 2,704
April	98	780	690	1,567	1	(s)	2	(s)	R 198	R 202	R 1,769	259	509	R 2,536
May	99	785	714	1,597	1	(s)	2	(s)	R 204	R 208	R 1,806	273	555	R 2,634
June	97	768	694	1,556	1	(s)	2	(s)	R 202	R 206	R 1,762	280	563	R 2,606
July	R 104	786	726	1,614	1	(s)	3	(s)	R 209	R 213	R 1,827	287	R 581	R 2,695
August	104	798	704	1,603	1	(s)	2	(s)	R 214	R 218	R 1,821	293	R 571	R 2,684
September	R 102	773	685	1,558	1	(s)	2	(s)	R 198	R 202	R 1,760	274	R 513	R 2,547
October	117	820	R 697	R 1,630	1	(s)	2	(s)	R 207	R 210	R 1,840	271	528	R 2,639
November	106	859	732	1,694	1	(s)	2	(s)	209	212	1,906	260	525	2,691
11-Month Total	1,127	8,907	7,719	17,728	12	4	22	1	2,263	2,301	20,029	2,965	5,870	28,865
2016 11-Month Total	1,103	8,743	7,634	17,463	11	4	18	1	2,235	2,269	19,731	3,064	5,904	28,700
2015 11-Month Total	1,271	8,588	7,588	17,430	12	4	13	(s)	2,247	2,276	19,705	3,099	6,055	28,859

^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

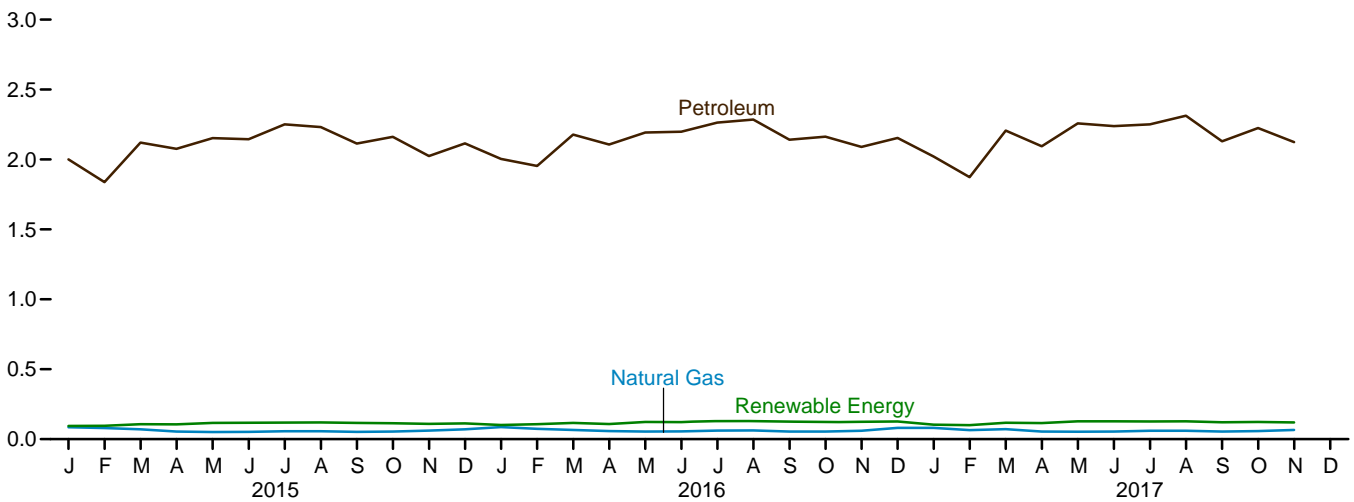
electricity retail sales. See Note 1, "Electrical System Energy Losses," at end of section.
R=Revised. NA=Not available. —=No data reported. (s)=Less than 0.5 trillion Btu.
Notes: • Data are estimates, except for coal totals; hydroelectric power in 1949–1978 and 1989 forward; solar; wind; and electricity 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)

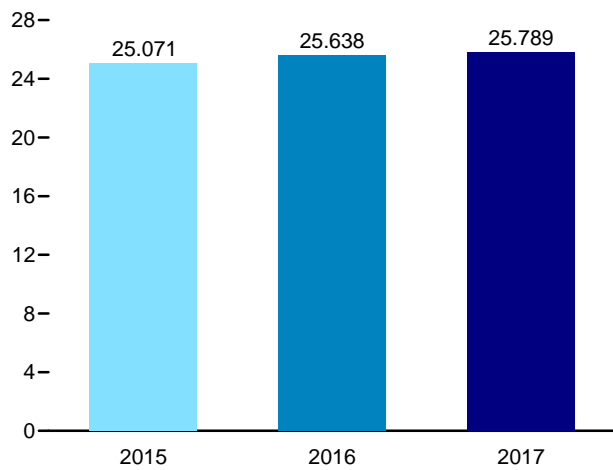
By Major Source, 1949–2016



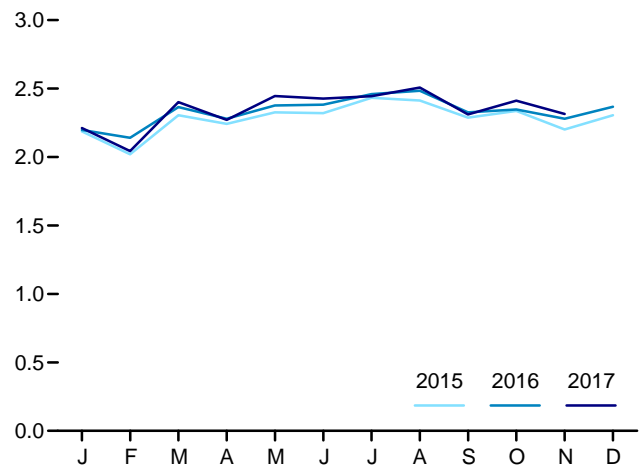
By Major Source, Monthly



Total, January–November



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						Electricity Retail Sales ^e	Electrical System Energy Losses ^f	Total
	Fossil Fuels				Renewable Energy ^b	Total Primary			
	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 January	(g)	85	R 2,001	R 2,086	94	2,180	2	5	R 2,187
February	(g)	80	R 1,838	R 1,918	95	R 2,013	2	5	R 2,020
March	(g)	71	R 2,120	R 2,191	107	R 2,298	2	4	R 2,305
April	(g)	55	R 2,076	R 2,131	105	R 2,236	2	4	R 2,242
May	(g)	51	R 2,153	R 2,203	116	R 2,319	2	4	R 2,326
June	(g)	52	R 2,145	R 2,196	117	R 2,314	2	4	R 2,320
July	(g)	57	R 2,251	R 2,307	118	R 2,425	2	4	R 2,432
August	(g)	56	R 2,231	R 2,287	120	R 2,407	2	4	R 2,413
September	(g)	52	R 2,114	R 2,166	116	R 2,282	2	4	R 2,288
October	(g)	54	R 2,161	R 2,216	114	R 2,330	2	4	R 2,336
November	(g)	62	R 2,024	R 2,086	110	R 2,196	2	4	R 2,202
December	(g)	71	R 2,115	R 2,186	113	R 2,299	2	4	R 2,305
Total	(g)	745	R 25,228	R 25,973	R 1,326	R 27,299	26	51	R 27,376
2016 January	(g)	86	R 2,004	R 2,090	102	R 2,191	2	4	R 2,198
February	(g)	74	R 1,953	R 2,027	107	R 2,134	2	4	R 2,141
March	(g)	66	R 2,177	R 2,243	116	R 2,359	2	4	R 2,365
April	(g)	58	R 2,107	R 2,165	108	R 2,273	2	4	R 2,279
May	(g)	55	R 2,193	R 2,248	122	R 2,370	2	4	R 2,376
June	(g)	56	R 2,198	R 2,254	R 122	R 2,375	2	4	R 2,382
July	(g)	61	R 2,263	R 2,325	128	R 2,453	2	4	R 2,459
August	(g)	62	R 2,286	R 2,348	131	R 2,478	2	4	R 2,484
September	(g)	55	R 2,142	R 2,196	124	R 2,321	2	4	R 2,327
October	(g)	54	R 2,164	R 2,218	123	R 2,341	2	4	R 2,347
November	(g)	61	R 2,090	R 2,150	124	R 2,274	2	4	R 2,280
December	(g)	80	R 2,153	R 2,234	127	R 2,361	2	5	R 2,367
Total	(g)	767	R 25,730	R 26,496	R 1,434	R 27,931	26	50	R 28,006
2017 January	(g)	80	R 2,022	R 2,102	104	R 2,205	2	5	R 2,212
February	(g)	65	R 1,873	R 1,938	100	R 2,038	2	4	R 2,044
March	(g)	71	R 2,206	R 2,278	117	R 2,395	2	5	R 2,401
April	(g)	54	R 2,095	R 2,149	R 116	R 2,265	2	4	R 2,271
May	(g)	54	R 2,259	R 2,312	127	R 2,440	2	4	R 2,446
June	(g)	54	R 2,239	R 2,293	128	R 2,421	2	4	R 2,427
July	(g)	60	R 2,251	R 2,311	126	R 2,437	2	4	R 2,444
August	(g)	60	R 2,312	R 2,373	128	R 2,501	2	4	R 2,507
September	(g)	54	R 2,130	R 2,184	121	R 2,305	2	4	R 2,311
October	(g)	57	R 2,224	R 2,282	123	R 2,405	2	4	R 2,411
November	(g)	66	R 2,124	R 2,190	119	R 2,309	2	4	R 2,315
11-Month Total ...	(g)	676	23,735	24,411	1,309	25,719	23	46	25,789
2016 11-Month Total ...	(g)	686	23,576	24,263	1,307	25,570	23	45	25,638
2015 11-Month Total ...	(g)	674	23,113	23,787	1,213	25,000	24	47	25,071

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.

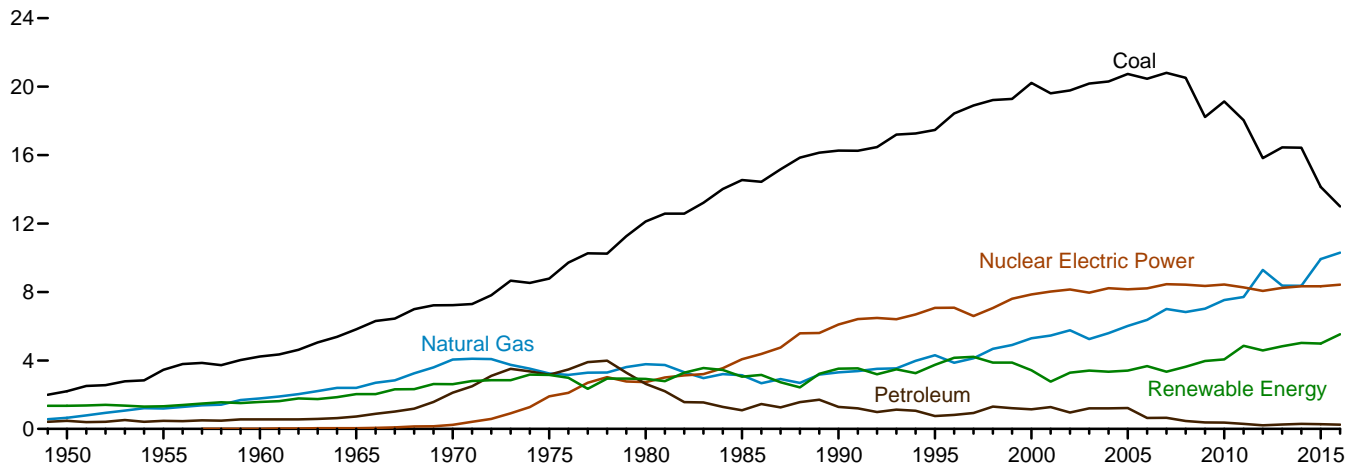
Notes: • Data are estimates, except for coal totals through 1977; and electricity retail sales beginning in 1979. • See Note 2, "Energy Consumption Data and Surveys," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the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

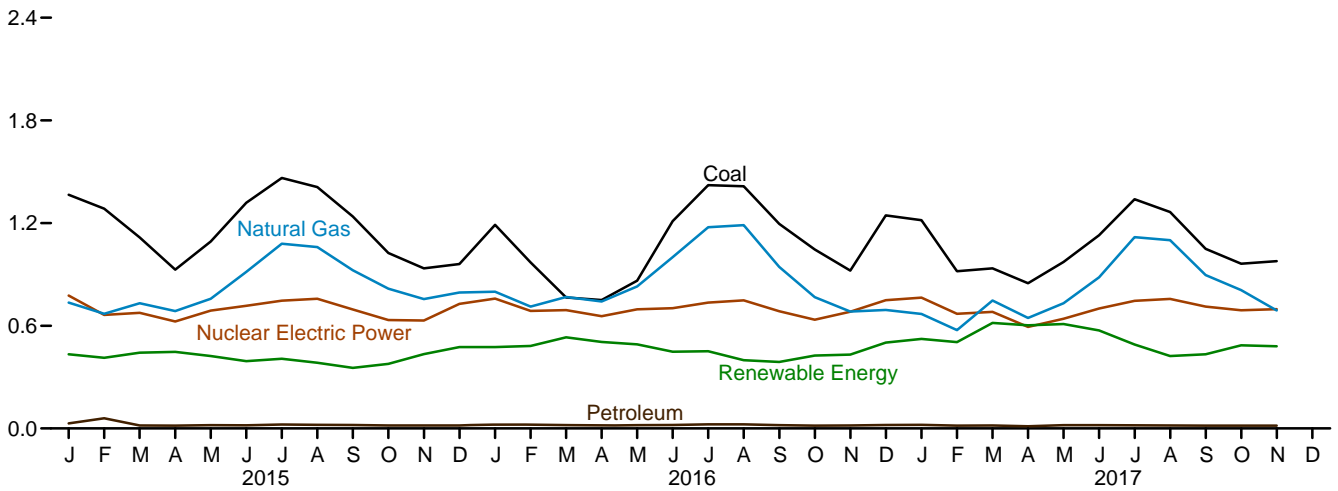
Sources: See end of section.

Figure 2.6 Electric Power Sector Energy Consumption
(Quadrillion Btu)

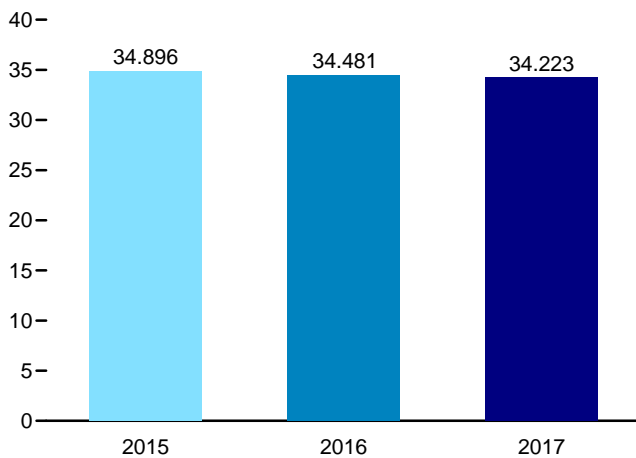
By Major Source, 1949–2016



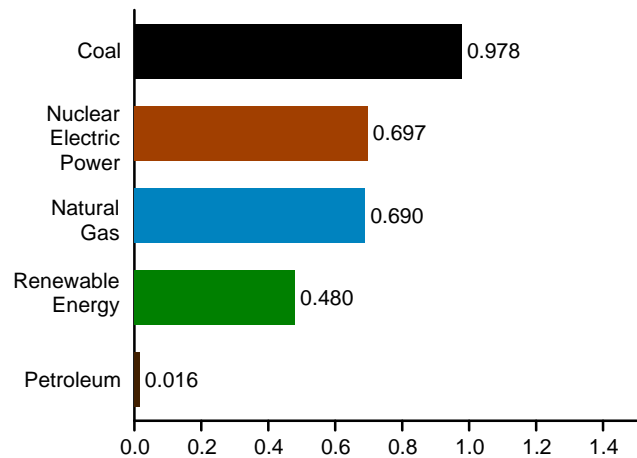
By Major Source, Monthly



Total, January–November



By Major Source, November 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 ^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	1,190	799	23	2,012	759	235	12	13	170	44	475	19	3,265	
February	970	712	22	1,704	687	222	11	20	186	43	482	16	2,888	
March	765	768	18	1,552	692	251	12	24	202	43	533	16	2,793	
April	750	741	19	1,510	656	238	11	26	192	39	506	13	2,685	
May	863	830	19	1,712	696	234	12	31	174	40	491	16	2,916	
June	1,211	1,001	20	2,232	703	213	12	32	150	41	448	19	3,402	
July	1,422	1,176	24	2,622	736	197	12	36	163	44	451	22	3,831	
August	1,415	1,188	24	2,627	748	180	12	36	125	45	399	20	3,794	
September	1,195	944	20	2,158	685	150	12	33	151	41	388	13	3,245	
October	1,046	767	16	1,830	635	159	12	29	188	37	426	16	2,906	
November	923	683	18	1,623	682	173	13	25	179	42	432	19	2,755	
December	1,245	692	20	1,958	750	207	13	22	213	46	501	15	3,224	
Total	12,996	10,301	244	23,542	8,427	2,459	146	328	2,094	505	5,531	206	37,705	
2017 January	1,217	669	21	1,907	765	256	13	20	190	45	523	16	3,211	
February	919	574	16	1,509	670	225	11	23	204	41	504	12	2,695	
March	935	747	17	1,699	681	278	13	40	240	46	616	12	3,009	
April	849	646	13	1,507	593	269	13	43	237	40	602	15	2,717	
May	973	732	19	1,723	641	296	12	52	209	42	610	14	2,989	
June	1,129	883	19	2,032	701	279	12	57	181	43	573	16	3,321	
July	1,339	1,118	18	2,476	746	236	13	50	146	46	491	R 15	R 3,728	
August	1,264	1,100	17	2,382	757	195	13	49	121	46	423	R 17	R 3,580	
September	1,049	896	17	1,962	712	174	12	47	160	41	433	R 13	R 3,120	
October	963	809	16	1,787	690	158	12	44	229	43	485	15	R 2,977	
November	978	690	16	1,683	697	182	12	28	215	43	480	16	2,275	
11-Month Total	11,615	8,863	189	20,666	7,653	2,548	135	453	2,132	474	5,742	162	34,223	
2016 11-Month Total	11,751	9,608	224	21,583	7,677	2,252	133	306	1,880	460	5,030	191	34,481	
2015 11-Month Total	13,178	9,131	259	22,568	7,609	2,093	136	214	1,589	478	4,509	210	34,896	

^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.
R=Revised. 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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