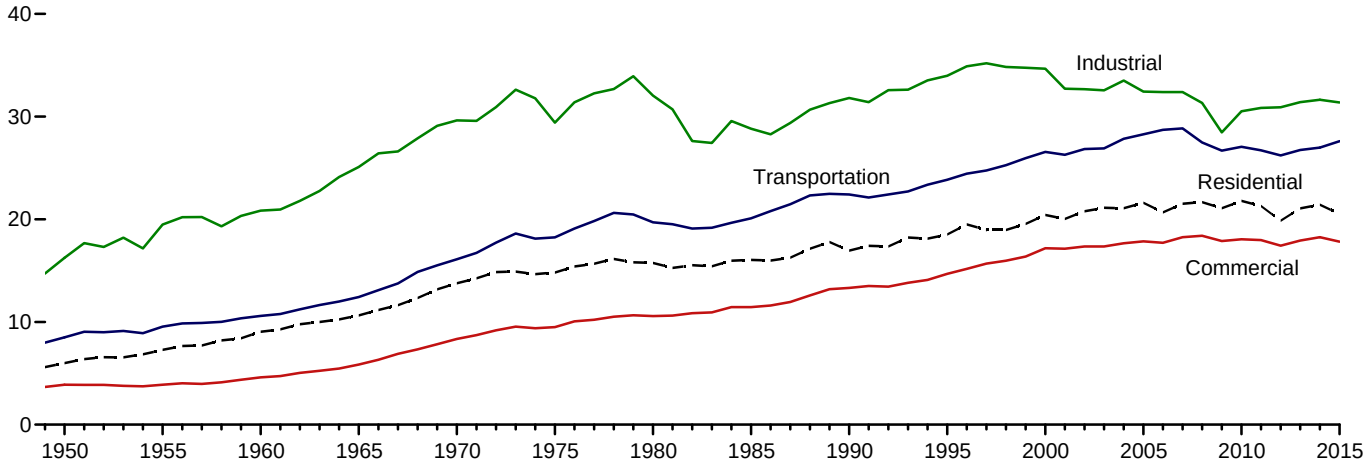
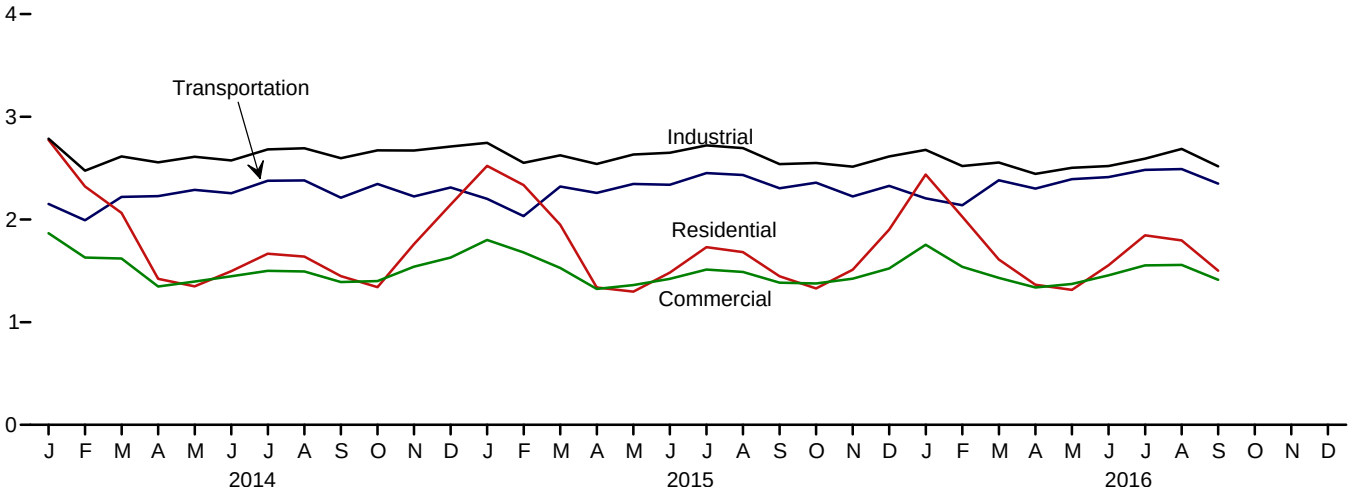
2. Energy Consumption by Sector

Figure 2.1 Energy Consumption by Sector
(Quadrillion Btu)

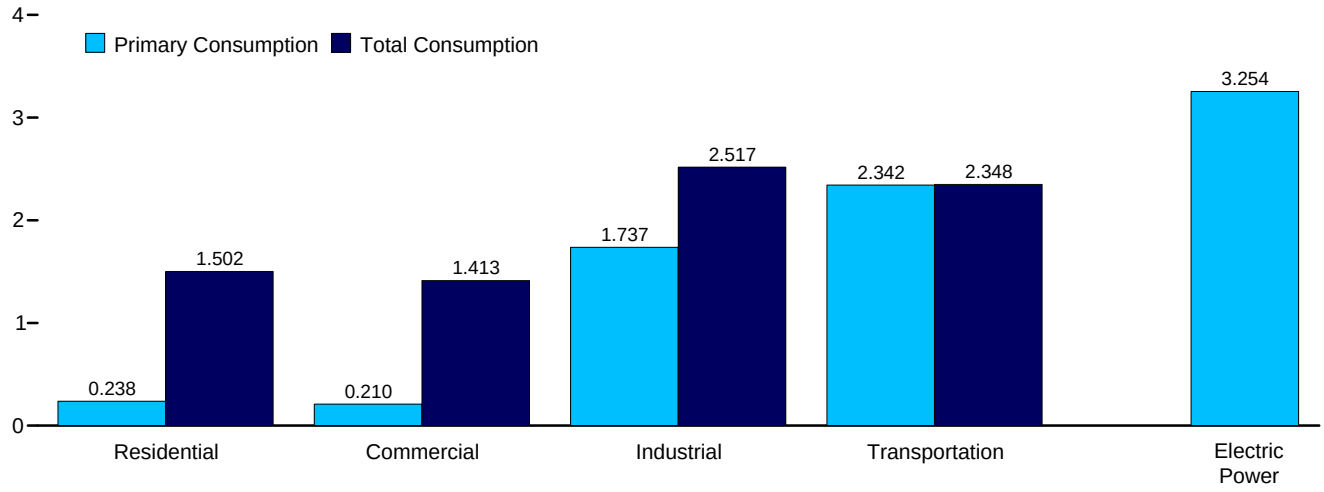
Total Consumption by End-Use Sector, 1949–2015



Total Consumption by End-Use Sector, Monthly



By Sector, September 2016



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]	Primary[e]		
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**	[d] **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**	**97,917**
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)**	**99,484**
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**	**20,278**	**30,526**	**26,978**	**27,059**	**39,619**	**7**	**97,444**
2011 Total	**6,392**	**21,300**	**4,062**	**17,979**	**20,456**	**30,843**	**26,632**	**26,712**	**39,293**	**8**	**96,842**
2012 Total	**5,672**	**19,858**	**3,725**	**17,422**	**20,742**	**30,915**	**26,144**	**26,219**	**38,131**	**2**	**94,416**
2013 Total	**6,704**	**21,067**	**4,163**	**17,932**	[R] **21,263**	[R] **31,409**	[R] **26,671**	[R] **26,750**	**38,357**	**-1**	[R] **97,157**
2014 January	1,238	2,774	672	1,866	1,947	2,787	2,144	2,151	3,578	4	9,583
February	1,038	2,321	587	1,629	1,723	2,476	1,986	1,993	3,085	3	8,421
March	881	2,064	513	1,620	1,781	2,615	2,213	2,220	3,130	(s)	8,519
April	491	1,422	314	1,348	1,744	2,556	2,220	2,227	2,785	-3	7,550
May	343	1,348	244	1,395	1,714	2,610	2,282	2,289	3,059	-1	7,641
June	257	1,496	204	1,446	1,675	2,575	2,249	2,255	3,387	2	7,775
July	244	1,666	198	1,499	1,765	2,682	2,370	2,376	3,647	4	8,228
August	240	1,639	199	1,493	1,768	2,693	2,373	2,380	3,626	4	8,209
September	266	1,448	217	1,391	1,761	2,597	2,206	2,212	3,198	1	7,648
October	366	1,341	275	1,400	1,827	2,673	2,340	2,346	2,951	-3	7,756
November	714	1,759	445	1,541	1,819	2,671	2,218	2,225	3,000	-3	8,194
December	903	2,145	518	1,629	1,887	2,711	2,306	2,312	3,183	-3	8,794
Total	**6,980**	**21,419**	**4,385**	**18,259**	**21,411**	**31,647**	**26,907**	**26,986**	**38,629**	**6**	**98,317**
2015 January	1,134	[R] 2,522	639	[R] 1,800	1,945	[R] 2,747	[R] 2,195	2,201	[R] 3,357	[R] 2	[R] 9,271
February	1,081	[R] 2,335	614	[R] 1,679	[R] 1,774	[R] 2,551	2,025	2,032	[R] 3,103	3	[R] 8,599
March	795	[R] 1,948	471	[R] 1,528	[R] 1,840	[R] 2,624	2,315	[R] 2,321	[R] 3,002	[R] (s)	[R] 8,422
April	445	[R] 1,338	296	[R] 1,324	1,743	[R] 2,540	[R] 2,253	2,259	[R] 2,723	-2	[R] 7,459
May	305	[R] 1,297	223	[R] 1,361	[R] 1,768	[R] 2,633	2,340	2,347	[R] 3,002	(s)	[R] 7,637
June	234	[R] 1,482	[R] 189	[R] 1,423	1,755	[R] 2,649	2,332	2,339	[R] 3,383	3	[R] 7,896
July	[R] 224	[R] 1,731	190	[R] 1,513	[R] 1,816	[R] 2,722	2,445	2,452	[R] 3,741	6	[R] 8,423
August	222	[R] 1,683	194	[R] 1,489	[R] 1,802	[R] 2,695	[R] 2,428	2,434	[R] 3,655	6	[R] 8,307
September	[R] 221	[R] 1,447	[R] 194	[R] 1,385	1,711	[R] 2,539	[R] 2,298	2,304	[R] 3,251	4	[R] 7,680
October	358	[R] 1,328	[R] 278	[R] 1,376	[R] 1,737	[R] 2,550	2,352	2,358	[R] 2,886	-1	[R] 7,612
November	[R] 572	[R] 1,511	[R] 372	[R] 1,424	[R] 1,718	[R] 2,514	[R] 2,219	2,225	[R] 2,792	-1	[R] 7,672
December	777	[R] 1,902	[R] 450	[R] 1,523	[R] 1,825	[R] 2,613	2,321	2,327	[R] 2,993	-1	[R] 8,365
Total	[R] **6,368**	[R] **20,521**	[R] **4,109**	[R] **17,825**	[R] **21,435**	[R] **31,379**	[R] **27,523**	[R] **27,600**	[R] **37,890**	[R] **19**	[R] **97,344**
2016 January	1,092	[R] 2,438	622	[R] 1,753	[R] 1,896	[R] 2,677	2,199	2,206	[R] 3,265	3	[R] 9,077
February	885	[R] 2,027	[R] 524	[R] 1,538	[R] 1,793	[R] 2,521	2,133	2,139	[R] 2,890	(s)	[R] 8,225
March	619	[R] 1,611	390	[R] 1,432	[R] 1,804	[R] 2,555	2,376	2,382	[R] 2,792	-4	[R] 7,976
April	476	[R] 1,365	314	[R] 1,338	[R] 1,680	[R] 2,445	2,295	2,301	[R] 2,684	-2	[R] 7,447
May	336	[R] 1,315	248	[R] 1,372	[R] 1,689	[R] 2,504	2,386	2,392	[R] 2,924	-1	[R] 7,582
June	245	[R] 1,554	201	[R] 1,456	[R] 1,680	[R] 2,521	2,407	2,414	[R] 3,412	4	[R] 7,949
July	236	[R] 1,846	202	[R] 1,554	[R] 1,721	[R] 2,592	2,477	2,484	[R] 3,840	7	[R] 8,482
August	220	[R] 1,796	[R] 201	[R] 1,558	[R] 1,825	[R] 2,687	2,484	2,490	[R] 3,801	5	[R] 8,536
September	238	1,502	210	1,413	1,737	2,517	2,342	2,348	3,254	3	7,784
9-Month Total	**4,346**	**15,452**	**2,912**	**13,413**	**15,823**	**23,019**	**21,099**	**21,156**	**28,861**	**17**	**73,058**
2015 9-Month Total	**4,661**	**15,783**	**3,009**	**13,501**	**16,154**	**23,700**	**20,631**	**20,689**	**29,218**	**21**	**73,694**
2014 9-Month Total	**4,999**	**16,178**	**3,147**	**13,688**	**15,877**	**23,591**	**20,043**	**20,103**	**29,494**	**14**	**73,574**

[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.

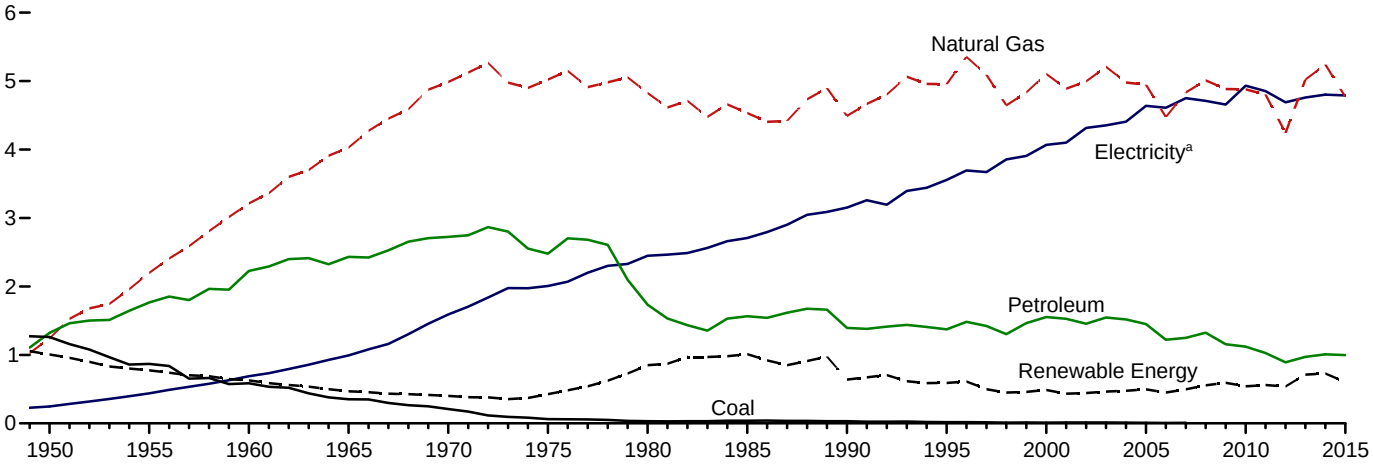
Notes: • Data are estimates, except for the electric power sector. • See Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7. • See Note 2, "Energy Consumption Data and Surveys," at end of section. • Totals may not equal sum of components due to independent rounding.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

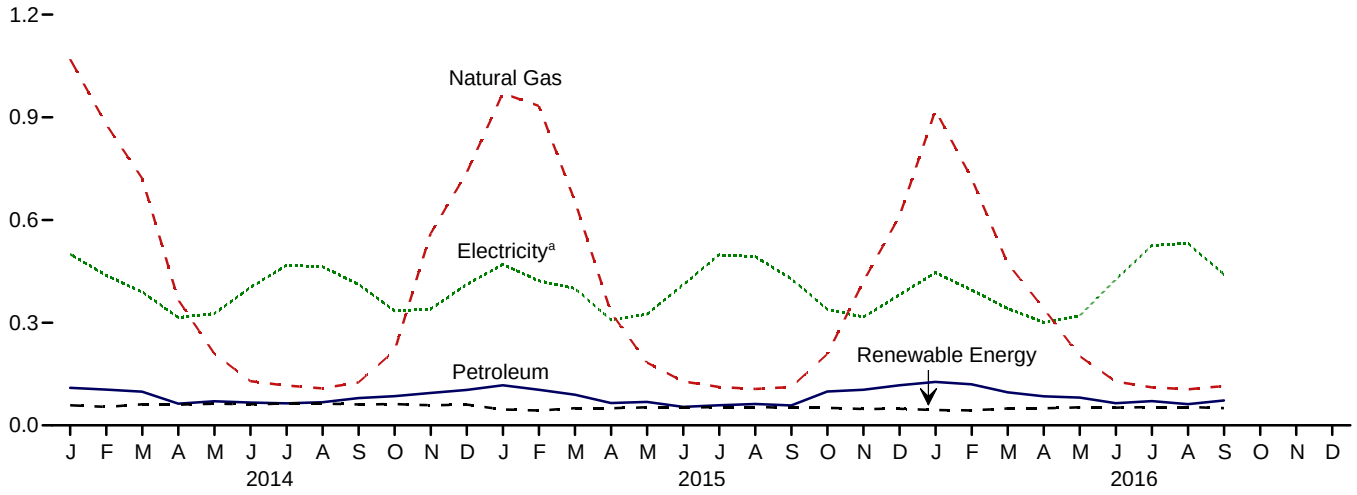
Sources: • **End-Use Sectors:** Tables 2.2–2.5. • **Electric Power Sector:** Table 2.6. • **Balancing Item:** Calculated as primary energy total consumption minus the sum of total energy consumption in the four end-use sectors. • **Primary Total:** Table 1.3.

Figure 2.2 Residential Sector Energy Consumption
(Quadrillion Btu)

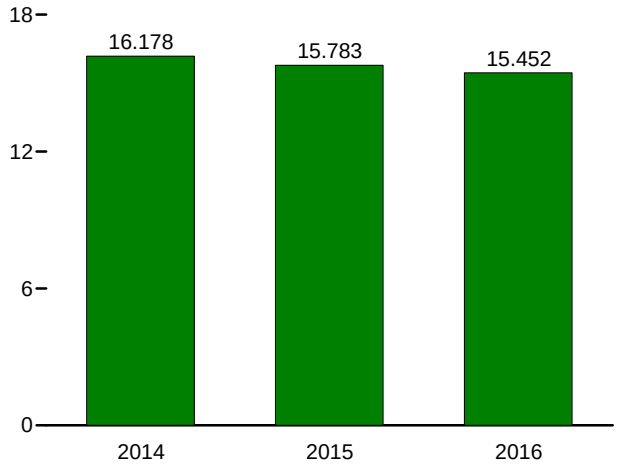
By Major Source, 1949–2015



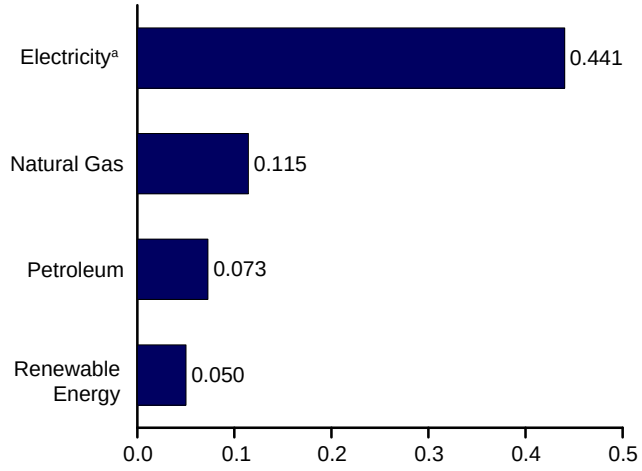
By Major Source, Monthly



Total, January–September



By Major Source, September 2016



[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]											
	Fossil Fuels				Renewable Energy[b]							
	Coal	Natural Gas[c]	Petro-leum	Total	Geo-thermal	Solar[d]	Bio-mass	Total	Total Primary	Electricity Retail Sales[e]	Electrical System Energy Losses[f]	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**	**443**	**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**	**52**	**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**	**1,027**	**5,832**	**40**	**70**	**450**	**560**	**6,392**	**4,855**	**10,054**	**21,300**
2012 Total	**NA**	**4,242**	**892**	**5,134**	**40**	**79**	**420**	**538**	**5,672**	**4,690**	**9,496**	**19,858**
2013 Total	**NA**	**5,023**	**970**	**5,993**	**40**	**92**	**580**	**711**	**6,704**	**4,759**	**9,604**	**21,067**
2014 January	NA	1,070	110	1,179	3	6	49	59	1,238	500	1,036	2,774
February	NA	880	105	984	3	6	44	54	1,038	438	844	2,321
March	NA	722	98	820	3	9	49	61	881	390	793	2,064
April	NA	367	64	430	3	9	48	60	491	315	617	1,422
May	NA	210	71	280	3	11	49	63	343	327	678	1,348
June	NA	129	67	196	3	11	48	62	257	403	836	1,496
July	NA	116	64	180	3	11	49	64	244	468	954	1,666
August	NA	108	68	176	3	11	49	64	240	463	936	1,639
September	NA	125	80	205	3	10	48	61	266	412	769	1,448
October	NA	218	85	304	3	10	49	62	366	335	641	1,341
November	NA	560	95	655	3	8	48	59	714	339	706	1,759
December	NA	739	104	843	3	8	49	60	903	412	830	2,145
Total	**NA**	**5,242**	**1,009**	**6,251**	**40**	**109**	**580**	**729**	**6,980**	**4,801**	**9,638**	**21,419**
2015 January	NA	970	117	1,088	3	7	37	47	1,134	R 470	R 917	R 2,522
February	NA	933	104	1,037	3	7	33	43	1,081	R 423	R 831	R 2,335
March	NA	655	90	744	3	10	37	50	795	R 400	R 754	R 1,948
April	NA	330	65	395	3	11	35	50	445	R 308	R 585	R 1,338
May	NA	183	69	252	3	13	37	53	305	R 325	R 668	R 1,297
June	NA	128	54	182	3	13	35	52	234	R 410	R 838	R 1,482
July	NA	112	59	171	3	14	37	54	R 224	R 498	R 1,008	R 1,731
August	NA	106	62	168	3	14	37	54	222	R 493	R 967	R 1,683
September	NA	112	58	170	3	12	35	51	R 221	R 428	R 798	R 1,447
October	NA	208	99	307	3	11	37	51	358	R 339	R 631	R 1,328
November	NA	420	104	524	3	9	35	48	R 572	R 316	R 623	R 1,511
December	NA	611	117	728	3	9	37	49	777	R 381	R 744	R 1,902
Total	**NA**	**4,769**	**998**	**5,767**	**41**	**R 129**	**432**	**R 601**	**R 6,368**	**R 4,791**	**R 9,362**	**R 20,521**
2016 January	NA	921	127	1,047	4	8	33	45	1,092	446	R 900	R 2,438
February	NA	722	120	R 841	3	10	31	44	885	395	R 746	R 2,027
March	NA	473	97	570	4	13	33	49	619	R 342	R 650	R 1,611
April	NA	342	85	426	4	R 14	32	50	476	R 301	R 588	R 1,365
May	NA	202	81	283	4	16	33	R 52	336	R 321	R 658	R 1,315
June	NA	128	65	193	4	17	32	52	245	R 426	R 883	R 1,554
July	NA	111	71	182	4	17	33	54	236	525	R 1,085	R 1,846
August	NA	105	62	167	4	17	33	53	220	532	R 1,044	R 1,796
September	NA	115	73	188	4	15	32	50	238	441	823	1,502
9-Month Total	**NA**	**3,118**	**779**	**3,897**	**33**	**127**	**289**	**449**	**4,346**	**3,728**	**7,378**	**15,452**
2015 9-Month Total	**NA**	**3,530**	**678**	**4,208**	**30**	**100**	**323**	**453**	**4,661**	**3,755**	**7,367**	**15,783**
2014 9-Month Total	**NA**	**3,726**	**725**	**4,451**	**30**	**84**	**434**	**548**	**4,999**	**3,715**	**7,464**	**16,178**

[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.

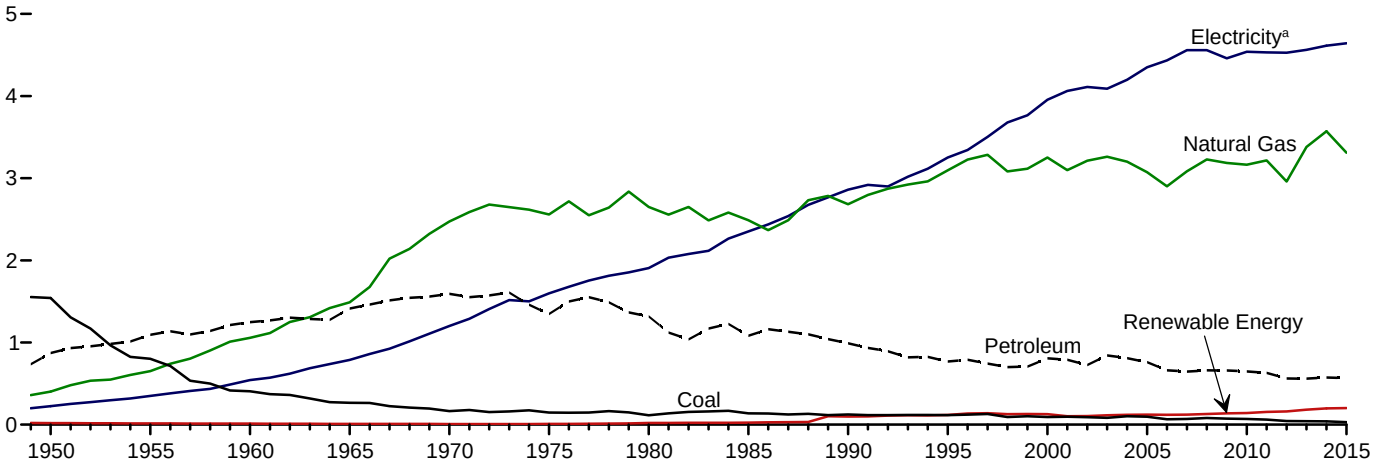
Notes: • Data are estimates, except for electricity retail sales. • See Note 2, "Energy Consumption Data and Surveys," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

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.

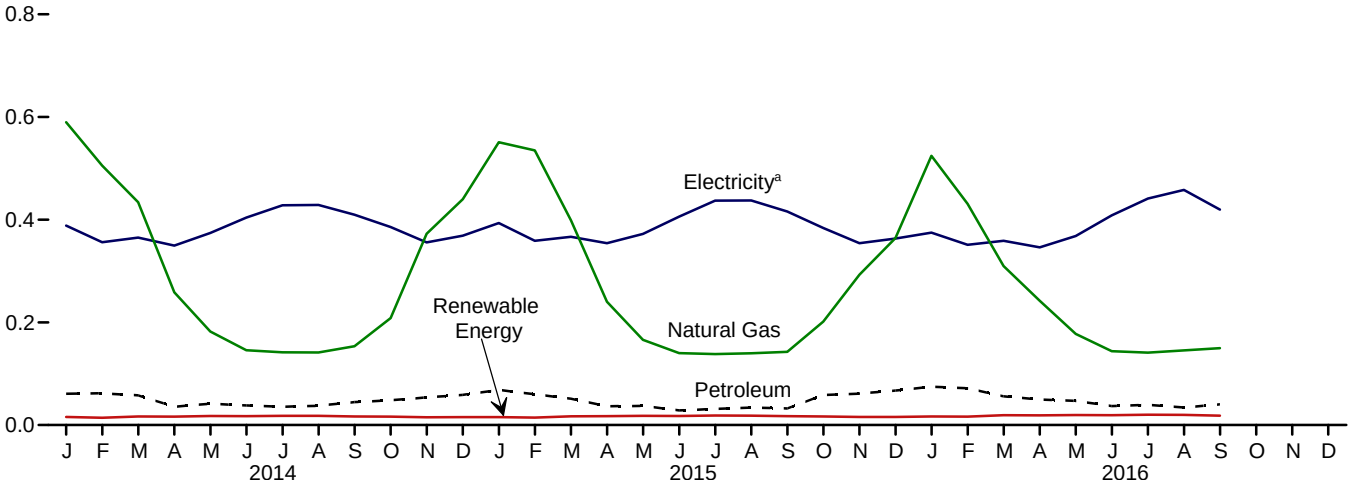
Sources: See end of section.

Figure 2.3 Commercial Sector Energy Consumption
(Quadrillion Btu)

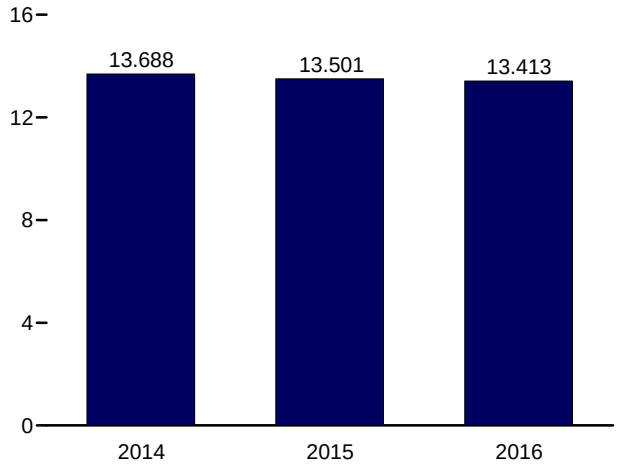
By Major Source, 1949–2015



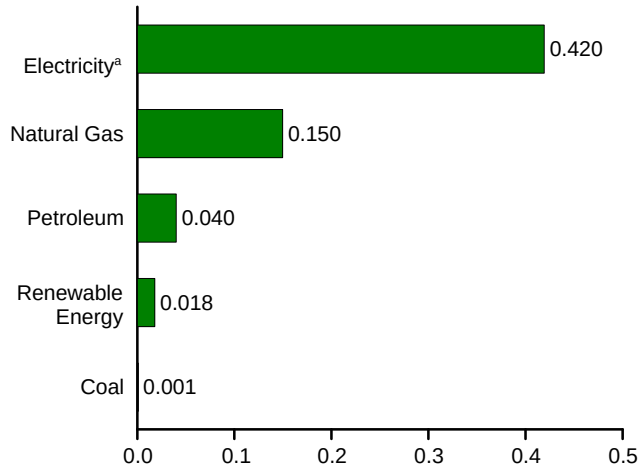
By Major Source, Monthly



Total, January–September



By Major Source, September 2016



[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]													
	Fossil Fuels				Renewable Energy[b]									
	Coal	Natural Gas[c]	Petroleum[d]	Total	Hydroelectric Power[e]	Geothermal	Solar[f]	Wind	Biomass	Total	Total Primary	Electricity Retail Sales[g]	Electrical System Energy Losses[h]	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**	**3**	**–**	**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**	**630**	**3,908**	**(s)**	**20**	**19**	**(s)**	**115**	**154**	**4,062**	**4,531**	**9,385**	**17,979**
2012 Total	**44**	**2,960**	**562**	**3,565**	**(s)**	**20**	**32**	**1**	**108**	**160**	**3,725**	**4,528**	**9,168**	**17,422**
2013 Total	**41**	**3,380**	**560**	**3,982**	**(s)**	**20**	**41**	**1**	**120**	**182**	**4,163**	**4,562**	**9,206**	**17,932**
2014 January	5	590	61	656	(s)	2	3	(s)	11	16	672	389	806	1,866
February	5	505	62	573	(s)	2	3	(s)	9	14	587	356	686	1,629
March	5	434	58	497	(s)	2	4	(s)	10	17	513	365	742	1,620
April	3	259	36	297	(s)	2	5	(s)	10	17	314	350	685	1,348
May	2	182	42	226	(s)	2	5	(s)	11	18	244	374	777	1,395
June	3	146	38	187	(s)	2	5	(s)	10	17	204	404	838	1,446
July	3	142	36	180	(s)	2	5	(s)	11	18	198	428	873	1,499
August	2	141	37	181	(s)	2	5	(s)	11	18	199	429	866	1,493
September	2	153	45	200	(s)	2	5	(s)	10	17	217	410	765	1,391
October	2	208	48	259	(s)	2	4	(s)	10	16	275	386	739	1,400
November	3	373	54	430	(s)	2	3	(s)	10	15	445	356	740	1,541
December	4	440	59	502	(s)	2	3	(s)	10	15	518	369	742	1,629
Total	**40**	**3,572**	**575**	**4,187**	**(s)**	**20**	**52**	**1**	**124**	**198**	**4,385**	**4,614**	**9,261**	**18,259**
2015 January	4	551	68	623	(s)	2	3	(s)	R 10	16	639	R 393	R 768	R 1,800
February	4	535	60	599	(s)	2	4	(s)	R 9	15	614	R 359	R 706	R 1,679
March	4	399	51	454	(s)	2	5	(s)	R 10	R 17	471	R 367	R 691	R 1,528
April	2	240	37	279	(s)	2	R 5	(s)	10	17	296	R 354	R 673	R 1,324
May	2	166	37	205	(s)	2	6	(s)	10	18	223	372	R 766	R 1,361
June	2	140	29	171	(s)	2	6	(s)	10	R 18	R 189	406	R 828	R 1,423
July	2	138	31	172	(s)	2	6	(s)	R 11	R 19	190	R 437	R 885	R 1,513
August	2	140	34	176	(s)	2	6	(s)	R 11	18	194	R 437	R 858	R 1,489
September	2	143	32	177	(s)	2	5	(s)	10	17	R 194	R 416	R 775	R 1,385
October	2	201	58	262	(s)	2	5	(s)	10	17	R 278	R 384	R 714	R 1,376
November	2	293	61	R 356	(s)	2	4	(s)	R 10	16	R 372	R 354	R 697	R 1,424
December	3	364	67	434	(s)	2	R 3	(s)	11	16	R 450	363	R 710	R 1,523
Total	**31**	**3,309**	**567**	**R 3,907**	**(s)**	**20**	**R 57**	**1**	**R 124**	**R 202**	**R 4,109**	**R 4,643**	**R 9,073**	**R 17,825**
2016 January	6	R 524	75	R 605	(s)	2	4	(s)	11	17	622	R 375	R 756	R 1,753
February	6	431	72	508	(s)	2	5	(s)	10	R 16	R 524	R 351	R 663	R 1,538
March	5	310	56	371	(s)	2	6	(s)	11	19	390	359	R 683	R 1,432
April	4	242	50	295	(s)	2	7	(s)	R 11	19	314	R 346	R 677	R 1,338
May	4	178	47	228	(s)	2	7	(s)	10	19	248	368	R 756	R 1,372
June	2	144	37	182	(s)	2	7	(s)	10	19	201	R 408	R 846	R 1,456
July	2	141	39	182	(s)	2	8	(s)	R 11	20	202	441	R 911	R 1,554
August	2	R 145	34	R 181	(s)	2	7	(s)	R 11	20	R 201	458	R 899	R 1,558
September	1	150	40	191	(s)	2	6	(s)	10	18	210	420	784	1,413
9-Month Total	**30**	**2,265**	**450**	**2,744**	**(s)**	**15**	**57**	**1**	**94**	**168**	**2,912**	**3,526**	**6,975**	**13,413**
2015 9-Month Total	**24**	**2,451**	**380**	**2,855**	**(s)**	**15**	**45**	**1**	**93**	**154**	**3,009**	**3,542**	**6,950**	**13,501**
2014 9-Month Total	**30**	**2,552**	**414**	**2,996**	**(s)**	**15**	**41**	**1**	**94**	**151**	**3,147**	**3,504**	**7,037**	**13,688**

[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.

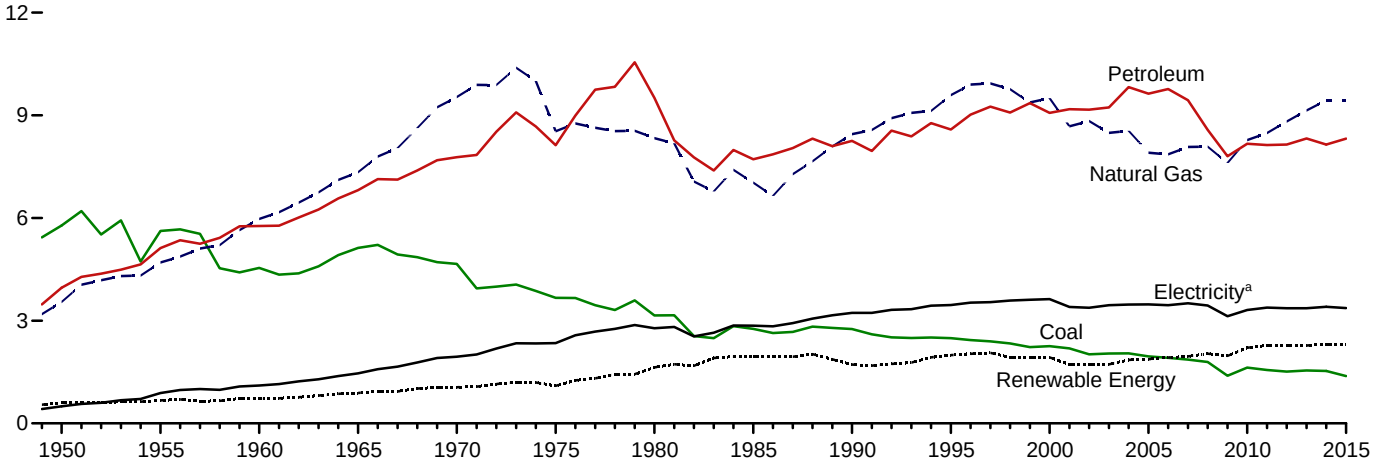
Notes: • Data are estimates, except for coal totals beginning in 2008; hydroelectric power; solar; wind; and electricity retail sales beginning in 1979. • The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. See Note 2, "Classification of Power 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.

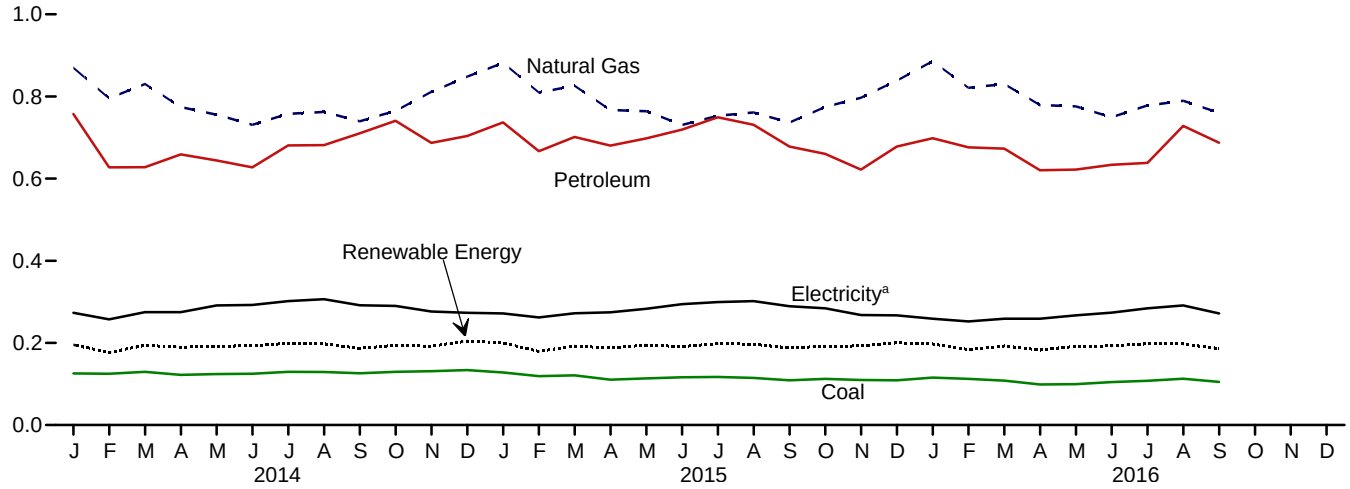
Sources: See end of section.

Figure 2.4 Industrial Sector Energy Consumption
(Quadrillion Btu)

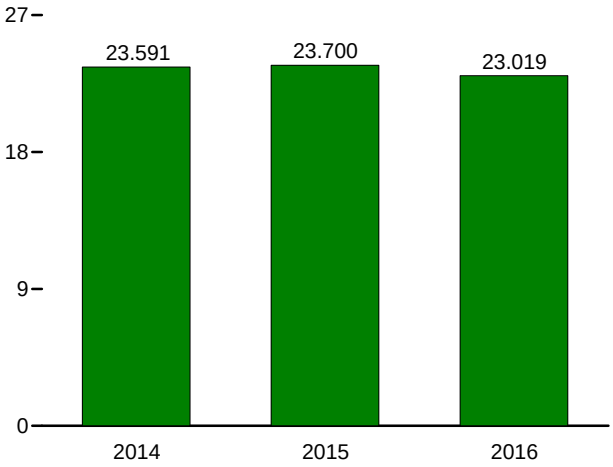
By Major Source, 1949–2015



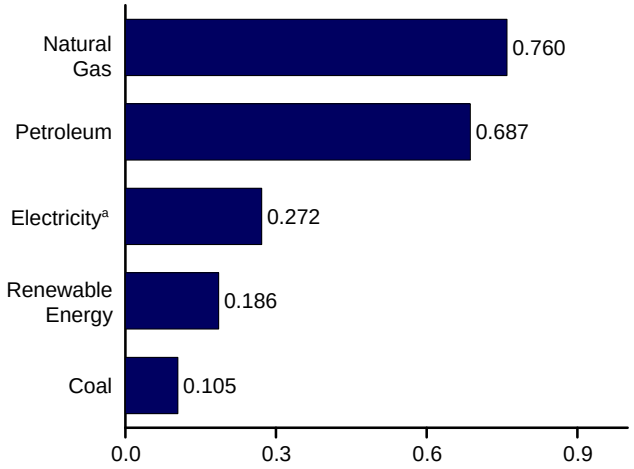
By Major Source, Monthly



Total, January–September



By Major Source, September 2016



[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]													
	Fossil Fuels				Renewable Energy[b]									
	Coal	Natural Gas[c]	Petroleum[d]	Total[e]	Hydroelectric Power[f]	Geothermal	Solar[g]	Wind	Biomass	Total	Total Primary	Electricity Retail Sales[h]	Electrical System Energy Losses[i]	Total[e]
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**	**8,167**	**18,070**	**16**	**4**	**3**	**–**	**2,185**	**2,208**	**20,278**	**3,314**	**6,934**	**30,526**
2011 Total	**1,561**	**8,481**	**8,131**	**18,184**	**17**	**4**	**4**	**(s)**	**2,246**	**2,272**	**20,456**	**3,382**	**7,005**	**30,843**
2012 Total	**1,513**	**8,819**	**8,147**	**18,482**	**22**	**4**	**7**	**(s)**	**2,226**	**2,259**	**20,742**	**3,363**	**6,810**	**30,915**
2013 Total	**1,546**	**9,140**	**R 8,321**	**R 18,991**	**33**	**4**	**9**	**(s)**	**2,226**	**2,272**	**R 21,263**	**3,362**	**6,785**	**R 31,409**
2014 January	126	870	757	1,752	1	(s)	1	(s)	193	195	1,947	273	567	2,787
February	125	795	627	1,546	1	(s)	1	(s)	175	177	1,723	257	496	2,476
March	129	830	628	1,587	1	(s)	1	(s)	192	194	1,781	275	559	2,615
April	122	774	659	1,554	1	(s)	1	(s)	187	189	1,744	275	538	2,556
May	124	755	644	1,522	1	(s)	1	(s)	190	192	1,714	291	605	2,610
June	125	731	627	1,482	1	(s)	1	(s)	190	193	1,675	292	607	2,575
July	129	758	681	1,566	1	(s)	1	(s)	196	199	1,765	302	616	2,682
August	129	762	682	1,570	1	(s)	1	(s)	195	198	1,768	306	619	2,693
September	126	740	711	1,574	1	(s)	1	(s)	185	187	1,761	292	545	2,597
October	130	765	741	1,633	1	(s)	1	(s)	192	194	1,827	290	555	2,673
November	131	811	687	1,627	1	(s)	1	(s)	190	192	1,819	277	575	2,671
December	134	848	704	1,683	1	(s)	1	(s)	202	204	1,887	273	550	2,711
Total	**1,530**	**9,441**	**8,147**	**19,097**	**12**	**4**	**11**	**1**	**2,287**	**2,314**	**21,411**	**3,404**	**6,832**	**31,647**
2015 January	128	882	737	R 1,745	1	(s)	1	(s)	R 198	R 200	1,945	R 272	R 530	R 2,747
February	119	810	R 667	1,594	1	(s)	1	(s)	R 177	179	R 1,774	R 262	R 515	R 2,551
March	121	826	R 702	R 1,648	1	(s)	1	(s)	R 189	R 192	R 1,840	R 272	R 513	R 2,624
April	110	767	680	1,555	1	(s)	1	(s)	185	188	1,743	R 275	R 522	R 2,540
May	R 114	764	698	1,573	1	(s)	1	(s)	192	R 195	R 1,768	R 283	R 582	R 2,633
June	116	731	719	R 1,564	1	(s)	1	(s)	R 188	R 191	1,755	R 294	R 600	R 2,649
July	117	753	749	1,618	1	(s)	1	(s)	R 195	R 198	R 1,816	R 299	R 606	R 2,722
August	R 115	761	731	R 1,606	1	(s)	1	(s)	R 194	R 196	R 1,802	R 302	R 592	R 2,695
September	109	736	678	1,524	1	(s)	1	(s)	185	R 188	1,711	R 289	R 539	R 2,539
October	112	775	660	R 1,546	1	(s)	1	(s)	R 189	R 192	R 1,737	R 284	R 528	R 2,550
November	R 110	797	622	1,526	1	(s)	1	(s)	R 190	R 193	R 1,718	R 268	R 527	R 2,514
December	109	839	678	R 1,625	1	(s)	1	(s)	R 198	R 200	R 1,825	R 267	R 521	R 2,613
Total	**R 1,380**	**9,440**	**R 8,321**	**R 19,123**	**13**	**4**	**14**	**R (s)**	**R 2,280**	**R 2,312**	**R 21,435**	**R 3,366**	**R 6,578**	**R 31,379**
2016 January	115	886	698	1,698	1	(s)	1	(s)	R 195	R 197	R 1,896	R 259	R 522	R 2,677
February	112	821	676	R 1,609	1	(s)	1	(s)	R 181	R 184	R 1,793	R 252	R 476	R 2,521
March	108	R 830	673	1,611	1	(s)	1	(s)	R 190	R 193	R 1,804	R 259	R 493	R 2,555
April	99	R 779	621	R 1,497	1	(s)	2	(s)	R 179	R 182	R 1,680	259	R 506	R 2,445
May	100	776	622	1,497	1	(s)	2	(s)	R 189	192	R 1,689	267	R 548	R 2,504
June	105	R 749	634	1,487	1	(s)	2	(s)	R 189	R 193	R 1,680	274	R 567	R 2,521
July	108	R 778	638	R 1,523	1	(s)	2	(s)	R 195	R 198	R 1,721	284	R 587	R 2,592
August	113	R 789	728	R 1,628	1	(s)	2	(s)	R 194	R 197	R 1,825	R 291	R 571	R 2,687
September	105	760	687	1,551	1	(s)	2	(s)	184	186	1,737	272	508	2,517
9-Month Total	**964**	**7,169**	**5,978**	**14,102**	**10**	**3**	**14**	**1**	**1,695**	**1,721**	**15,823**	**2,417**	**4,779**	**23,019**
2015 9-Month Total	**1,049**	**7,030**	**6,361**	**14,426**	**9**	**3**	**11**	**(s)**	**1,704**	**1,727**	**16,154**	**2,547**	**4,999**	**23,700**
2014 9-Month Total	**1,136**	**7,016**	**6,015**	**14,153**	**9**	**3**	**9**	**(s)**	**1,703**	**1,724**	**15,877**	**2,564**	**5,150**	**23,591**

[a] See "Primary Energy Consumption" in Glossary.
[b] See Table 10.2b 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] Includes coal coke net imports, which are not separately displayed. See Tables 1.4a and 1.4b.
[f] Conventional hydroelectric power.
[g] Solar photovoltaic (PV) electricity net generation in the industrial sector, both utility-scale and distributed (small-scale). See Tables 10.2b and 10.5.
[h] Electricity retail sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
[i] 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.

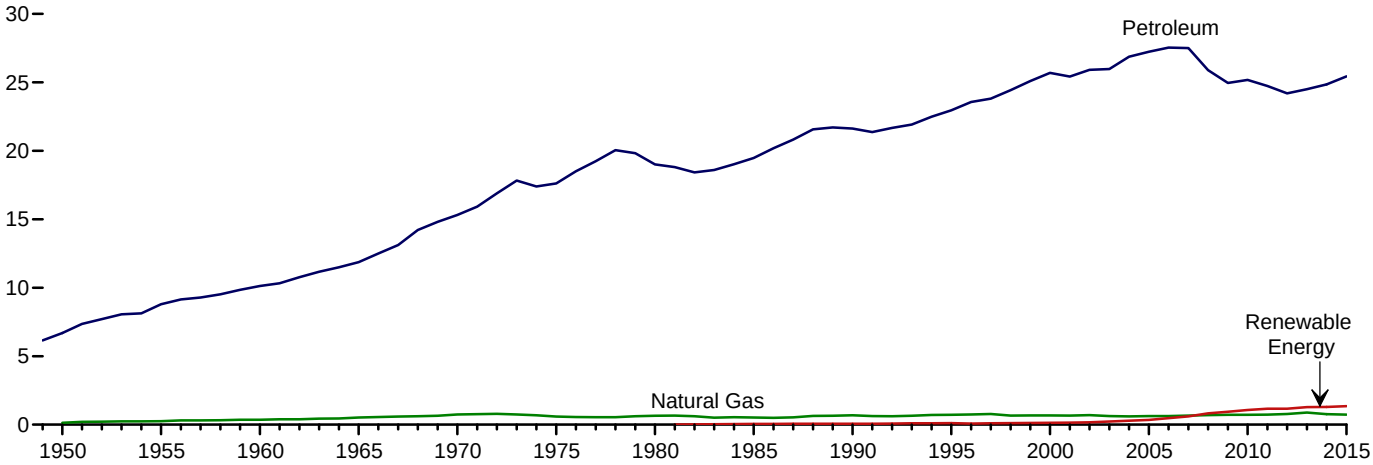
Notes: • Data are estimates, except for coal totals; hydroelectric power in 1949–1978 and 1989 forward; solar; wind; and electricity retail sales. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. See Note 2, "Classification of Power Plants 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.

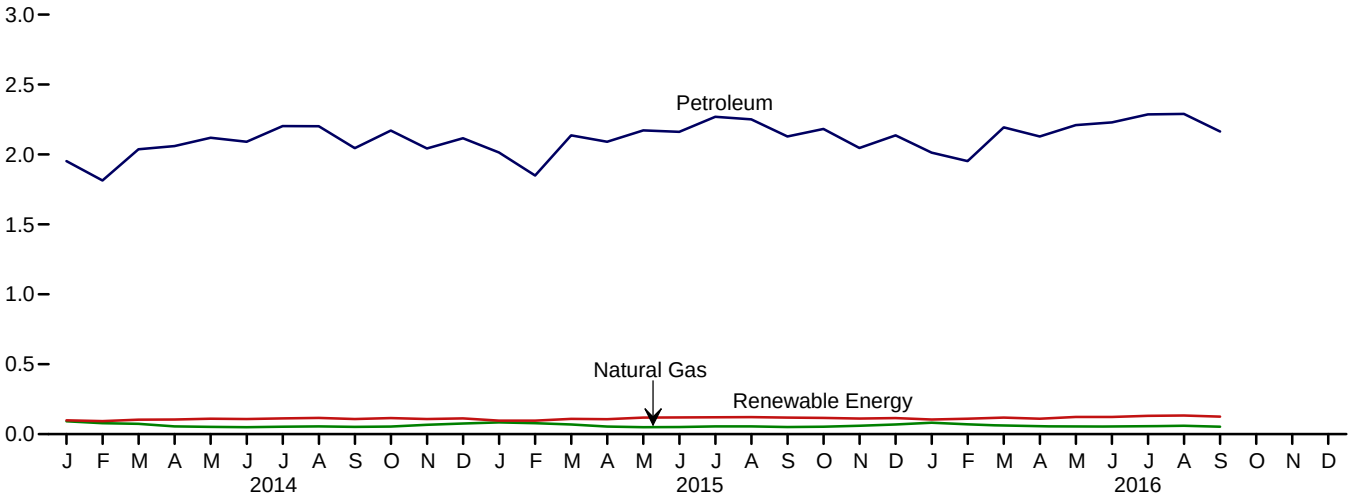
Sources: See end of section.

Figure 2.5 Transportation Sector Energy Consumption
(Quadrillion Btu)

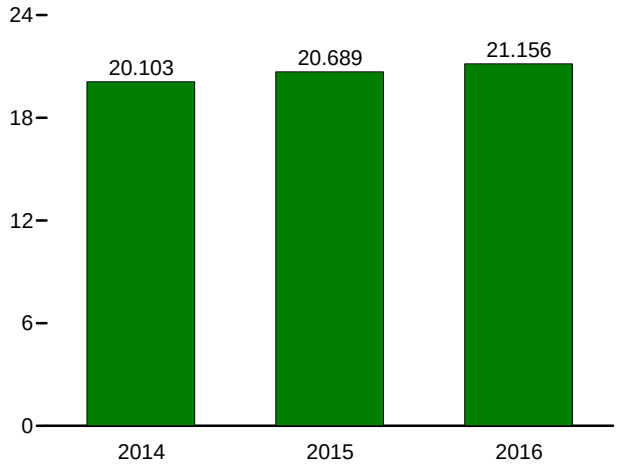
By Major Source, 1949–2015



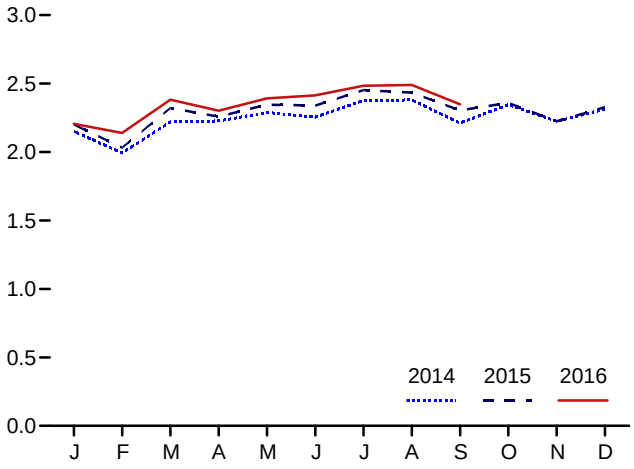
By Major Source, Monthly



Total, January–September



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**	**R 24,506**	**R 25,394**	**R 1,278**	**R 26,671**	**26**	**53**	**R 26,750**
2014 January	(g)	92	1,953	2,045	99	2,144	2	5	2,151
February	(g)	79	1,814	1,893	93	1,986	2	5	1,993
March	(g)	73	2,037	2,110	103	2,213	2	4	2,220
April	(g)	56	2,060	2,116	104	2,220	2	4	2,227
May	(g)	52	2,120	2,172	110	2,282	2	5	2,289
June	(g)	50	2,091	2,141	108	2,249	2	4	2,255
July	(g)	54	2,204	2,257	113	2,370	2	4	2,376
August	(g)	55	2,202	2,257	117	2,373	2	4	2,380
September	(g)	52	2,046	2,097	109	2,206	2	4	2,212
October	(g)	54	2,171	2,225	115	2,340	2	4	2,346
November	(g)	67	2,043	2,110	108	2,218	2	5	2,225
December	(g)	77	2,116	2,193	113	2,306	2	4	2,312
Total	**(g)**	**760**	**24,856**	**25,616**	**1,291**	**26,907**	**26**	**53**	**26,986**
2015 January	(g)	84	R 2,015	2,098	96	R 2,195	2	R 4	2,201
February	(g)	78	1,849	1,928	97	2,025	2	5	2,032
March	(g)	69	2,136	2,206	109	2,315	2	4	R 2,321
April	(g)	54	R 2,092	2,145	107	R 2,253	2	4	2,259
May	(g)	50	2,172	2,222	118	2,340	2	4	2,347
June	(g)	51	2,162	2,213	119	2,332	2	4	2,339
July	(g)	56	R 2,270	2,325	120	2,445	2	R 4	2,452
August	(g)	55	R 2,251	2,306	122	R 2,428	2	4	2,434
September	(g)	51	R 2,129	2,180	118	R 2,298	2	4	2,304
October	(g)	53	2,182	2,236	116	2,352	2	4	2,358
November	(g)	60	2,046	2,107	112	R 2,219	2	4	2,225
December	(g)	69	2,137	2,206	115	2,321	2	4	2,327
Total	**(g)**	**732**	**R 25,441**	**R 26,173**	**1,350**	**R 27,523**	**26**	**R 51**	**R 27,600**
2016 January	(g)	82	2,013	2,095	104	2,199	2	5	2,206
February	(g)	R 70	1,952	2,023	110	2,133	2	4	2,139
March	(g)	63	2,194	2,257	119	2,376	2	4	2,382
April	(g)	56	2,128	2,185	111	2,295	2	4	2,301
May	(g)	53	2,210	2,263	123	2,386	2	4	2,392
June	(g)	54	2,230	2,284	123	2,407	2	R 4	2,414
July	(g)	R 59	R 2,287	2,346	131	2,477	2	5	2,484
August	(g)	60	R 2,291	R 2,350	133	2,484	2	4	2,490
September	(g)	53	2,164	2,217	125	2,342	2	4	2,348
9-Month Total	**(g)**	**552**	**19,468**	**20,020**	**1,079**	**21,099**	**19**	**38**	**21,156**
2015 9-Month Total	**(g)**	**548**	**19,075**	**19,624**	**1,007**	**20,631**	**20**	**39**	**20,689**
2014 9-Month Total	**(g)**	**561**	**18,526**	**19,088**	**956**	**20,043**	**20**	**40**	**20,103**

[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."

[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.

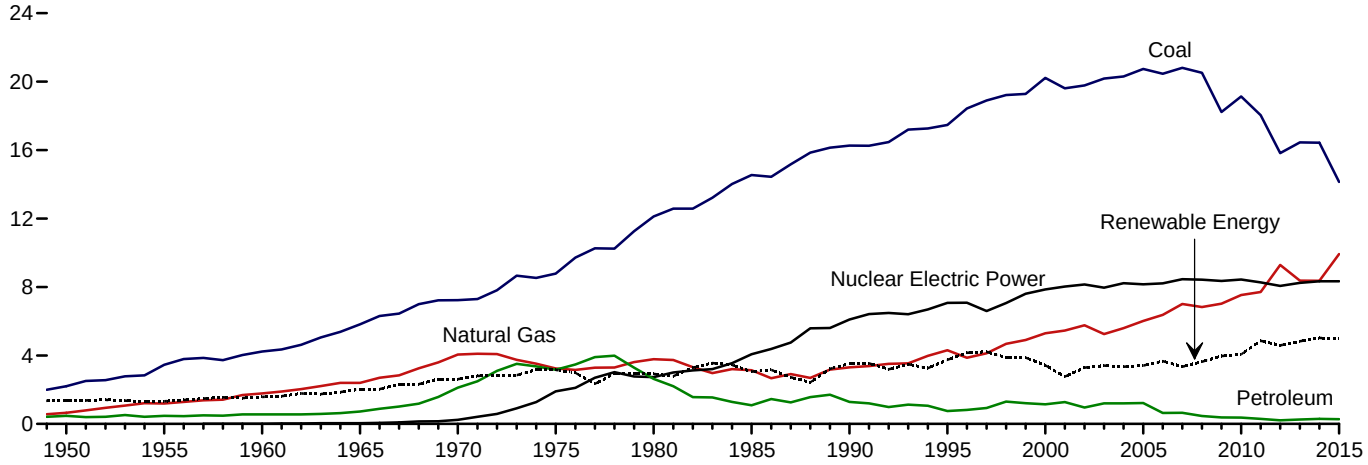
Notes: • Data are estimates, except for coal totals through 1977; and electricity retail sales beginning in 1979. • See Note 2, "Energy Consumption Data and Surveys," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the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

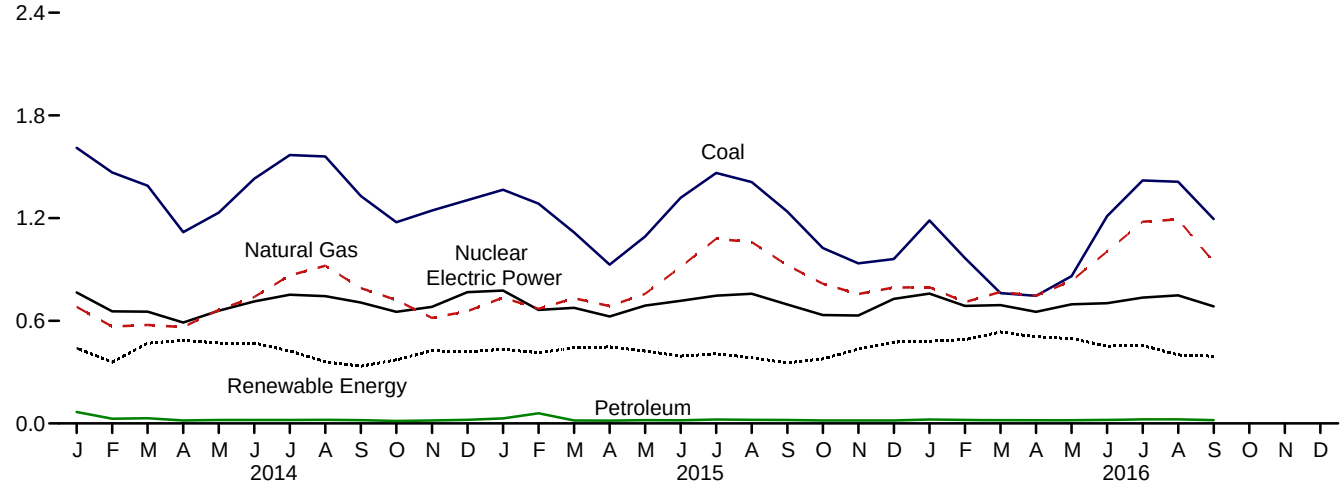
Sources: See end of section.

Figure 2.6 Electric Power Sector Energy Consumption
(Quadrillion Btu)

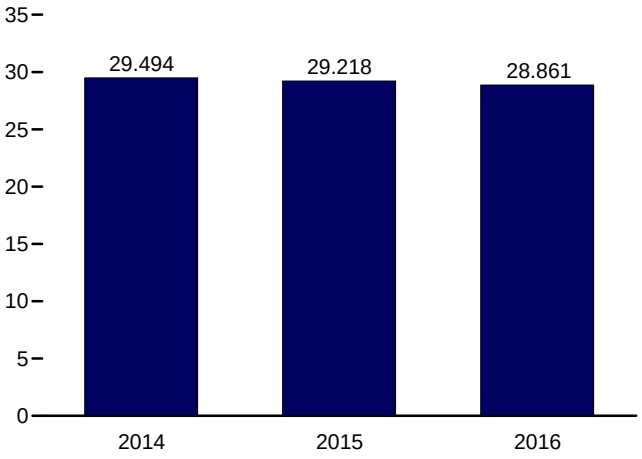
By Major Source, 1949–2015



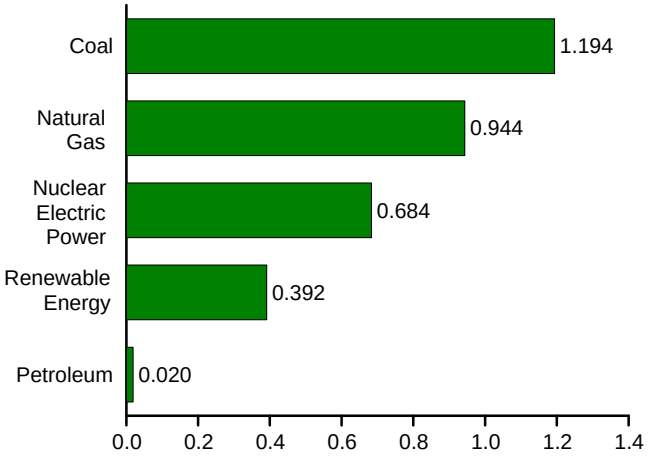
By Major Source, Monthly



Total, January–September



By Major Source, September 2016



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]												
	Fossil Fuels					Renewable Energy[b]							
	Coal	Natural Gas[c]	Petroleum	Total	Nuclear Electric Power	Hydroelectric Power[d]	Geothermal	Solar[e]	Wind	Biomass	Total	Electricity Net Imports[f]	Total Primary
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 January	1,611	681	67	2,359	765	205	13	7	170	45	440	14	3,578
February	1,467	566	27	2,060	655	164	11	8	133	42	359	11	3,085
March	1,389	576	31	1,996	653	230	13	12	169	46	469	12	3,130
April	1,118	563	17	1,698	590	241	12	14	177	41	485	12	2,785
May	1,232	664	20	1,916	658	251	13	16	148	41	469	16	3,059
June	1,430	739	20	2,189	713	244	12	18	150	45	470	15	3,387
July	1,568	865	20	2,453	752	231	13	17	116	48	423	18	3,647
August	1,560	921	21	2,502	744	187	13	17	97	46	361	20	3,626
September	1,329	791	19	2,140	706	152	12	17	109	43	334	18	3,198
October	1,176	722	15	1,912	653	162	13	16	138	42	371	15	2,951
November	1,244	616	17	1,878	681	176	13	13	179	44	425	16	3,000
December	1,305	656	21	1,982	767	211	13	10	140	45	419	15	3,183
Total	**16,427**	**8,362**	**295**	**25,085**	**8,338**	**2,454**	**151**	**165**	**1,726**	**530**	**5,026**	**182**	**38,629**
2015 January	R 1,366	R 735	R 29	R 2,130	777	R 224	R 13	11	R 141	R 45	R 433	18	R 3,357
February	R 1,284	R 670	59	2,013	664	R 207	R 12	R 14	R 139	R 41	R 412	14	R 3,103
March	R 1,116	R 732	18	R 1,865	675	R 225	R 13	R 19	R 143	R 43	R 443	19	R 3,002
April	928	R 686	17	R 1,630	625	R 208	R 12	R 22	R 166	R 40	R 448	20	R 2,723
May	R 1,092	R 758	19	R 1,869	R 688	R 186	R 13	R 23	R 160	41	R 423	20	R 3,002
June	R 1,319	R 915	19	R 2,252	717	R 189	R 12	R 23	R 125	R 44	R 393	21	R 3,383
July	R 1,464	R 1,079	23	R 2,566	747	R 195	R 13	R 24	R 127	48	R 407	21	R 3,741
August	R 1,411	R 1,060	R 21	R 2,492	757	R 177	R 13	R 25	R 122	R 48	R 384	22	R 3,655
September	R 1,238	R 924	20	R 2,182	695	R 149	R 11	R 20	R 130	R 43	R 354	20	R 3,251
October	R 1,025	R 817	R 17	R 1,860	R 633	R 154	R 12	R 17	R 152	41	R 378	16	R 2,886
November	R 936	R 756	18	R 1,710	630	R 179	R 12	R 16	R 183	R 44	R 434	18	R 2,792
December	960	R 794	17	R 1,771	728	R 214	13	R 14	R 187	R 47	R 476	17	R 2,993
Total	**R 14,138**	**R 9,926**	**R 276**	**R 24,341**	**R 8,337**	**R 2,308**	**R 148**	**R 228**	**R 1,776**	**R 525**	**R 4,985**	**227**	**R 37,890**
2016 January	R 1,186	R 797	23	R 2,005	759	R 235	14	14	R 172	45	R 480	21	R 3,265
February	R 967	R 709	21	R 1,697	R 686	R 224	13	R 22	R 188	43	R 490	17	R 2,890
March	R 761	R 768	18	R 1,548	692	R 250	14	R 24	R 203	R 43	R 534	18	R 2,792
April	R 746	R 746	R 18	R 1,510	652	R 236	12	R 27	R 191	R 40	R 506	15	R 2,684
May	R 860	R 834	19	R 1,713	696	R 235	14	R 32	R 175	R 40	R 496	19	R 2,924
June	R 1,211	R 1,004	20	R 2,235	703	R 212	13	R 32	R 152	42	R 452	23	R 3,412
July	R 1,420	R 1,179	24	R 2,623	736	R 197	R 13	R 37	R 164	R 45	R 456	25	R 3,840
August	R 1,412	R 1,192	24	R 2,629	748	R 180	R 13	R 36	R 126	R 46	R 401	24	R 3,801
September	1,194	944	20	2,158	684	151	14	33	153	41	392	20	3,254
9-Month Total	**9,758**	**8,173**	**187**	**18,118**	**6,356**	**1,920**	**119**	**257**	**1,524**	**385**	**4,206**	**182**	**28,861**
2015 9-Month Total	**11,217**	**7,558**	**224**	**18,999**	**6,345**	**1,760**	**111**	**180**	**1,253**	**393**	**3,697**	**177**	**29,218**
2014 9-Month Total	**12,703**	**6,366**	**242**	**19,312**	**6,236**	**1,904**	**112**	**126**	**1,269**	**399**	**3,811**	**136**	**29,494**

[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	42.4	1,141.5
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	735.1	30.1	16.9	9.0	6.6	16.2	8.4	44.0	6.0	30.7	37.8	947.0

[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://ctsedwweb.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://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.

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	129.4	.4	198.4	524.3	2.3	48.7	774.0	3.6	196.0	17.7	1,141.5
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	134.3	418.9	1.8	46.8	602.1	3.7	184.0	21.3	947.0

[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.

THIS PAGE INTENTIONALLY LEFT BLANK