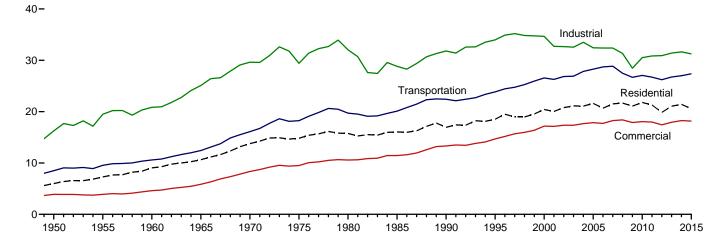
2. Energy Consumption by Sector

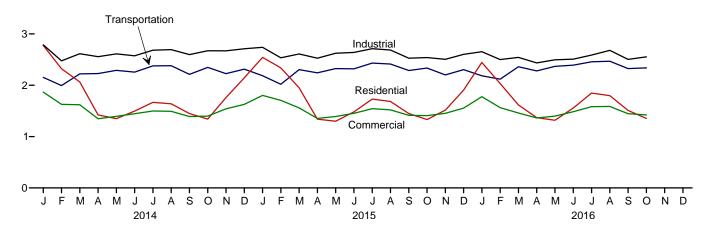
Figure 2.1 Energy Consumption by Sector (Quadrillion Btu)

Total Consumption by End-Use Sector, 1949–2015

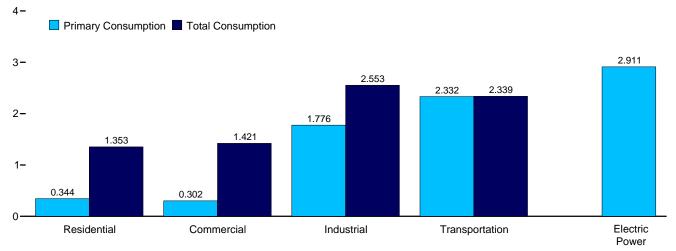


Total Consumption by End-Use Sector, Monthly





By Sector, October 2016



 $Web\ Page:\ http://www.eia.gov/totalenergy/data/monthly/\#consumption.$

Source: Table 2.1.

Table 2.1 Energy Consumption by Sector

				End-Use	Sectors				Electric		
	Reside	ential	Comm	ercial ^a	Indus	trial ^b	Transpo	rtation	Power Sector ^{c,d}	D-1	B.·
	Primarye	Total ^f	Primarye	Total ^f	Primarye	Total ^f	Primarye	Total ^f	Primarye	Balancing Item ^g	Primary Total ^h
1950 Total 1955 Total 1965 Total 1965 Total 1965 Total 1965 Total 1975 Total 1975 Total 1975 Total 1980 Total 1985 Total 1995 Total 1995 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2007 Total 2007 Total 2008 Total 2009 Total 2010 Total 2010 Total 2011 Total 2011 Total 2012 Total 2011 Total 2012 Total 2012 Total 2013 Total 2014 Total 2015 Total 2016 Total 2017 Total 2018 Total 2019 Total 2019 Total 2019 Total 2019 Total 2019 Total	4,829 5,608 6,651 7,279 8,322 7,939 7,148 6,556 6,934 7,156 6,907 7,232 6,987 6,901 6,154 6,589 6,889 6,633 6,540	5,989 7,278 9,039 10,639 13,766 14,813 15,753 16,041 18,517 20,421 20,038 20,786 21,119 21,081 21,613 20,670 21,519 21,668 21,077 21,795 21,300 19,858 21,067	2,834 2,561 2,723 3,177 4,059 4,105 3,732 3,896 4,100 4,278 4,085 4,132 4,292 4,052 3,747 3,922 4,100 4,055 4,023 4,062 3,725 4,062 3,725 4,163	3,893 3,895 4,609 5,845 8,346 9,492 10,578 11,451 13,320 17,175 17,137 17,346 17,655 17,853 17,707 18,253 18,402 17,887 18,058 17,979 17,422 17,932	13,890 16,103 16,996 20,148 22,964 21,434 22,595 19,443 21,180 22,718 22,823 21,793 21,793 21,798 21,529 21,363 20,528 18,756 20,278 20,456 20,456 20,456	16,241 19,485 20,842 25,098 29,628 29,413 32,039 28,816 31,810 33,970 34,662 32,719 32,661 32,553 33,516 32,442 32,391 32,385 31,334 28,466 30,526 30,526 30,915 31,409	8,383 9,474 10,560 12,399 16,062 18,210 19,659 20,041 22,366 23,796 26,495 26,785 26,826 27,764 28,199 28,638 28,771 27,404 26,605 26,978 26,978 26,632 26,144 26,671	8,492 9,550 10,596 12,432 16,098 18,245 19,697 20,088 22,420 23,851 26,555 26,282 26,846 26,900 27,843 28,280 28,717 28,858 27,486 27,486 27,059 26,712 26,219 26,750	4,679 6,461 8,158 11,012 16,253 20,270 24,269 26,032 d 30,495 33,479 38,062 37,215 38,016 38,028 38,701 39,626 39,417 40,371 39,969 39,699 39,699 39,619 38,069 38,131 38,357	(s) (s) (s) (s) 1-4-9-32-65-1-6 (s) 7-82-1	34,616 40,208 45,086 54,015 67,838 71,965 78,067 76,392 84,484 91,031 98,817 96,170 97,643 97,917 100,090 100,188 99,484 101,015 98,891 94,118 97,444 96,842 94,416 97,157
2014 January February March April May June July August September October November December Total	1,238 1,038 881 491 343 257 244 240 266 366 714 903 6,980	2,774 2,321 2,064 1,422 1,348 1,496 1,639 1,448 1,341 1,759 2,145 21,419	R 671 R 586 513 R 313 R 243 R 203 R 197 R 198 R 216 275 445 R 517 R 4,378	R 1,865 R 1,628 1,620 R 1,347 R 1,394 1,446 1,499 1,493 1,391 R 1,399 R 1,540 R 1,628	1,947 R 1,722 1,781 R 1,743 1,714 1,675 R 1,765 R 1,767 R 1,760 1,827 1,819 1,887 R 21,407	2,787 R 2,475 R 2,614 2,556 2,610 R 2,574 2,682 2,693 2,597 R 2,672 R 2,710 R 31,643	2,144 R1,987 R2,214 R2,221 R2,283 R2,250 R2,371 R2,374 R2,207 2,340 R2,219 R2,307 R2,307 R2,917	R 2,152 R 1,994 R 2,221 R 2,228 R 2,290 R 2,256 R 2,377 R 2,381 R 2,213 R 2,213 R 2,347 R 2,34	3,578 3,085 3,130 2,785 3,059 3,387 3,626 3,198 2,951 3,000 3,183 38,629	4 3 (s) -3 -1 2 4 4 1 -3 -3 -3 -3 -6	9,583 8,421 8,519 7,550 7,641 7,775 8,228 8,209 7,648 7,756 8,194 8,794 98,317
Page 15 January	R 1,139 R 1,085 R 798 R 4447 R 307 R 235 R 226 R 224 R 223 R 363 R 577 R 782 R 6,405	R 2,542 R 2,338 R 1,950 R 1,339 R 1,298 1,482 1,731 1,683 R 1,448 R 1,331 R 1,515 R 1,906 R 20,558	R 666 R 639 R 499 R 323 R 251 R 216 R 219 R 223 R 221 R 307 R 4400 R 479 R 4,443	R 1,803 R 1,706 R 1,559 R 1,353 R 1,391 R 1,452 R 1,544 R 1,520 R 1,414 R 1,407 R 1,454 R 1,554 R 18,159	R 1,928 R 1,758 R 1,826 R 1,732 R 1,732 R 1,746 R 1,807 R 1,793 R 1,700 R 1,727 R 1,710 R 1,815 R 21,301	R 2,739 R 2,534 R 2,610 R 2,527 R 2,623 R 2,639 R 2,712 R 2,685 R 2,527 R 2,539 R 2,504 R 2,602 R 31,244	R 2,179 R 2,012 R 2,297 R 2,235 R 2,319 R 2,313 R 2,425 R 2,406 R 2,281 R 2,329 R 2,195 R 2,297 R 27,287	R 2,186 R 2,019 R 2,304 R 2,3241 R 2,325 R 2,319 R 2,431 R 2,442 R 2,287 R 2,336 R 2,201 R 2,304 R 2,304	3,367 3,103 3,002 2,723 3,002 3,383 3,741 3,655 3,251 2,886 2,792 2,993 37,890	2 3 (s) -2 (s) 3 6 6 4 -1 -1 1 19	9,271 8,599 8,422 7,459 7,637 7,896 8,423 8,307 7,612 7,672 8,365 97,344
Page 10-10 August September October 10-Month Total	R 1,098 R 891 R 624 R 479 R 339 R 247 R 238 R 222 R 246 344 4,728	R 2,444 R 2,033 R 1,616 R 1,368 R 1,318 R 1,556 R 1,848 R 1,797 R 1,510 1,353 16,843	R 647 R 550 R 417 R 339 R 274 R 230 R 231 R 230 R 241 302 3,461	R 1,778 R 1,563 R 1,459 R 1,363 R 1,363 R 1,398 R 1,484 R 1,583 R 1,587 R 1,445 1,445 1,445	R 1,872 R 1,772 R 1,7790 R 1,669 R 1,661 R 1,671 R 1,716 R 1,817 R 1,723 1,776 17,483	R 2,653 R 2,500 R 2,542 R 2,434 R 2,496 R 2,508 R 2,587 R 2,680 R 2,503 2,553 25,456	R 2,177 R 2,111 R 2,355 R 2,361 R 2,361 R 2,384 R 2,450 R 2,461 R 2,317 2,332 23,223	R 2,184 R 2,118 R 2,361 R 2,279 R 2,367 R 2,391 R 2,457 R 2,467 R 2,323 2,339 23,286	3,265 2,890 2,792 2,684 2,924 3,412 3,840 3,801 3,254 2,911 31,772	R 4 (s) -4 R -3 -1 R 5 7 5 3 -3 15	R 9,064 R 8,215 R 7,974 R 7,442 R 7,578 R 7,944 8,482 R 8,537 7,784 7,662 80,681
2015 10-Month Total 2014 10-Month Total	5,047 5,365	17,142 17,519	3,564 3,417	15,149 15,082	17,775 17,701	26,135 26,260	22,795 22,391	22,859 22,458	32,104 32,445	21 11	81,306 81,330

to the use of sector-specific conversion factors for coal and natural gas.

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.

^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.

u Ihrough 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities and independent power producers.

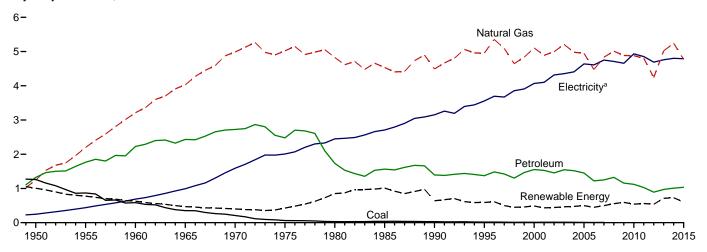
e See "Primary Energy Consumption" in Glossary.

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.

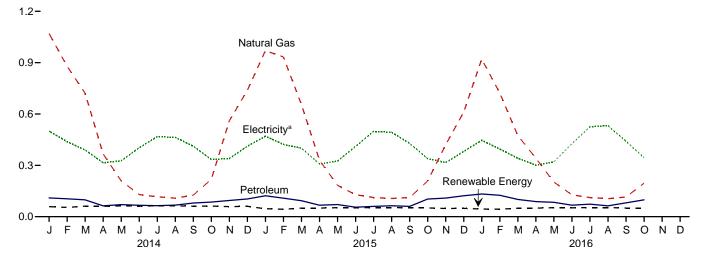
g A balancing item. The sum of primary consumption in the five energy-use sectors equals the sum of total consumption in the four end-use sectors. However, total energy consumption does not equal the sum of the sectoral components due

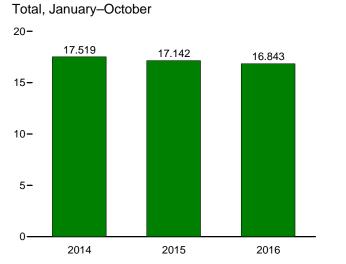
Figure 2.2 Residential Sector Energy Consumption (Quadrillion Btu)

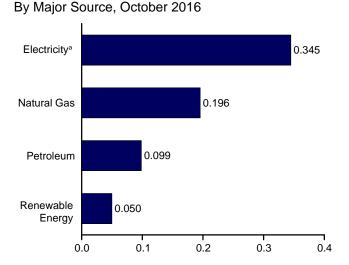




By Major Source, Monthly







^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

				Primary	Consumpt	iona						
		Fossil	Fuels			Renewab	le Energy ^b				Electrical	
	Coal	Natural Gas ^c	Petro- leum	Total	Geo- thermal	Solar ^d	Bio- mass	Total	Total Primary	Electricity Retail Sales ^e	System Energy Losses ^f	Total
1950 Total 1955 Total 1965 Total 1965 Total 1965 Total 1975 Total 1975 Total 1975 Total 1985 Total 1985 Total 1985 Total 1985 Total 1990 Total 1990 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2008 Total 2007 Total 2008 Total 2009 Total 2009 Total 2009 Total 2001 Total 2010 Total 2011 Total 2011 Total 2011 Total 2011 Total 2011 Total 2012 Total 2013 Total	1,261 867 585 352 209 63 31 39 31 17 12 12 11 8 6 8 NA NA NA NA	1,240 2,198 3,212 4,028 4,987 5,023 4,825 4,534 4,491 4,954 5,105 4,889 4,995 5,209 4,981 4,946 4,476 4,835 5,010 4,883 4,878 4,788	1,322 1,767 2,432 2,725 2,479 1,734 1,565 1,394 1,553 1,553 1,553 1,546 1,546 1,549 1,450 1,221 1,224 1,124 1,127 1,027 892 970	3,824 4,833 6,024 7,922 7,564 6,589 6,138 5,916 6,469 6,469 6,463 6,768 6,768 6,511 6,405 5,092 6,334 6,040 5,999 5,832 5,134 5,993	NA NA NA NA NA NA NA NA 10 13 14 16 18 22 26 33 37 40 40	NAA A A A A A A A A A A A A A A A A A A	1,006 775 627 468 401 425 850 520 520 370 380 420 430 430 430 470 470 440 450 420 450 420 580	1,006 775 627 468 401 425 850 1,010 640 589 486 435 443 465 475 496 451 497 555 593 541 560 538 711	4,829 5,608 6,6579 8,322 7,990 7,1439 7,148 6,556 6,934 7,156 6,864 7,232 6,987 6,589 6,689 6,689 6,633 6,540 6,54	246 438 687 993 1,591 2,007 2,448 2,709 3,153 3,557 4,069 4,100 4,317 4,353 4,408 4,638 4,631 4,750 4,751 4,657 4,933 4,855 4,690 4,759	913 1,232 1,701 2,367 3,852 4,817 5,866 6,184 7,235 8,026 9,197 9,074 9,562 9,534 9,687 10,074 9,905 10,180 10,068 9,788 10,321 10,054 9,496 9,604	5,989 7,278 9,039 10,639 13,766 14,813 15,753 16,041 16,944 18,517 20,421 20,038 20,786 21,119 21,613 20,670 21,519 21,668 21,077 21,795 21,300 19,858 21,067
February February March April May June July August September October November December Total	NA A A A A A A A A A A A A A A A A A A	1,070 880 722 367 210 129 116 108 125 218 560 739 5,242	110 105 98 64 71 67 64 68 80 85 95 104 1,009	1,179 984 820 430 280 196 180 176 205 304 655 843 6,251	3 3 3 3 3 3 3 3 3 3 3 3 3	6 6 9 9 11 11 11 10 10 8 8 8	49 44 49 48 49 48 49 48 49 48 49 580	59 54 61 60 63 62 64 61 62 59 60 729	1,238 1,038 881 491 343 257 244 240 266 366 714 903 6,980	500 438 390 315 327 403 468 463 412 335 339 412 4,801	1,036 844 793 617 678 836 954 936 769 641 706 830 9,638	2,774 2,321 2,064 1,422 1,348 1,496 1,666 1,639 1,448 1,341 1,759 2,145 21,419
2015 January February March April May June July August September October November December Total	NA NA NA NA NA NA NA NA NA NA NA	970 933 655 330 183 128 112 106 112 208 420 611 4,769	R 122 R 108 R 93 R 67 R 71 R 55 R 60 R 64 R 103 R 108 R 122 R 1,035	R 1,093 R 1,042 R 748 R 397 R 254 R 183 R 172 R 170 R 172 R 311 R 5529 R 733 R 5,804	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	7 7 10 11 13 13 14 14 12 11 9 9	37 33 37 35 37 35 37 37 35 37 35 37 35	47 43 50 50 53 52 54 51 51 48 49 601	R 1,139 R 1,085 R 798 R 447 R 307 R 235 R 226 R 224 R 223 R 363 R 577 R 782 R 6,405	470 423 400 308 325 410 498 493 428 339 316 381 4,791	R 933 R 830 R 752 R 584 R 667 R 836 R 1,007 R 966 R 797 R 630 R 622 R 743 9,362	R 2,542 R 2,338 R 1,950 R 1,339 R 1,298 1,482 1,731 1,683 R 1,448 R 1,331 R 1,515 R 1,906 R 20,558
2016 January	NA NA NA NA NA NA NA NA NA	921 R 723 R 474 342 202 128 111 105 115 196 3,316	R 132 R 125 R 101 R 88 R 84 R 67 R 73 R 64 R 80 99	R 1,053 R 848 R 575 R 430 R 286 R 195 R 184 R 169 R 195 294 4,230	4 3 4 4 4 4 4 4 4 37	8 10 13 14 16 17 17 17 15 14	33 31 33 32 33 32 33 33 32 33 32	45 44 49 50 52 52 54 53 50 50 499	R 1,098 R 891 R 624 R 479 R 339 R 247 R 238 R 222 R 246 344 4,728	446 395 342 301 321 426 525 532 441 345 4,073	900 746 650 588 658 883 1,085 1,044 823 663 8,041	R 2,444 R 2,033 R 1,616 R 1,368 R 1,318 R 1,556 R 1,848 R 1,797 R 1,510 1,353 16,843
2015 10-Month Total 2014 10-Month Total	NA NA	3,739 3,945	804 810	4,543 4,755	34 33	111 94	359 483	504 610	5,047 5,365	4,094 4,050	8,002 8,104	17,142 17,519

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.
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.

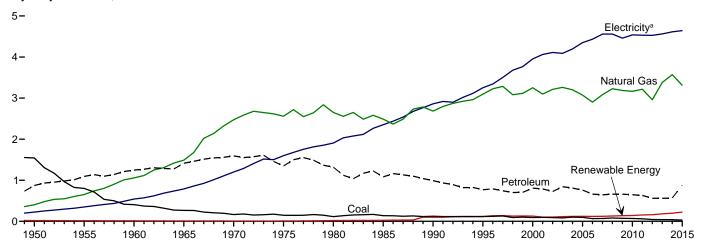
Notes: • Data are estimates, except for electricity retail sales. • See Note 2, "Energy Consumption Data and Surveys," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

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.

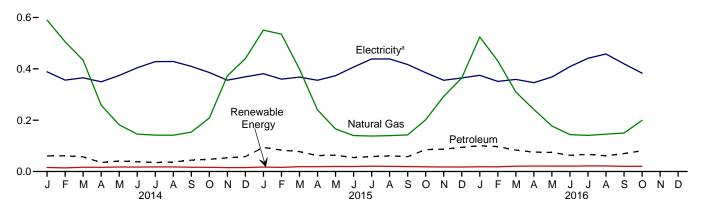
Figure 2.3 Commercial Sector Energy Consumption (Quadrillion Btu)

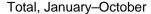
By Major Source, 1949-2015

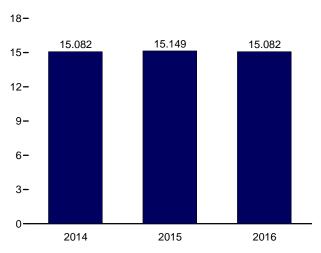


By Major Source, Monthly

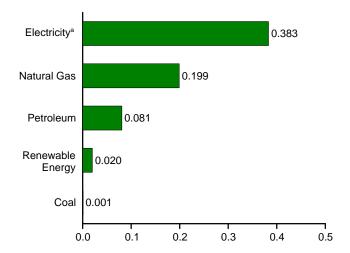
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By Major Source, October 2016



Web Page: http://www.eia.gov/totalenergy/data/monthly/#consumption.

Source: Table 2.3.

^a Electricity retail sales.

Table 2.3 Commercial Sector Energy Consumption

					Primary (Consump	tiona							
		Fossi	l Fuels			R	enewabl	e Energ	y b			Elec-	Electrical	
	Coal	Natural Gas ^c	Petro- leum ^d	Total	Hydro- electric Power ^e	Geo- thermal	Solar ^f	Wind	Bio- mass	Total	Total Primary	tricity Retail Sales	System Energy Lossesh	Total
1950 Total 1955 Total 1960 Total 1960 Total 1965 Total 1975 Total 1975 Total 1975 Total 1985 Total 1985 Total 1985 Total 1995 Total 1995 Total 2000 Total 2001 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2007 Total 2008 Total 2009 Total 2010 Total 2010 Total 2010 Total 2011 Total 2011 Total 2012 Total 2012 Total	1,542 801 407 265 165 147 115 137 124 117 92 97 90 82 103 97 65 70 70 62 44 41	401 651 1,490 2,473 2,558 2,651 2,482 2,682 3,095 3,252 3,097 3,213 3,201 3,201 3,203 3,023 3,023 3,023 3,028 3,185 3,216 3,21	872 1,095 1,443 1,413 1,532 1,318 1,033 991 769 806 789 725 841 809 761 661 660 650 657 632 562 560	2,815 2,547 2,711 3,168 4,229 4,084 3,798 3,982 4,150 3,983 4,027 4,118 4,113 3,627 3,821 3,981 3,983 3,983 3,983 3,983 3,983 3,983 3,983 3,983 3,983	NA NA NA NA NA NA NA 1 1 1 1 (s) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NA NA NA NA NA NA NA 11 12 14 14 15 17 19 20 20	NA NA NA NA NA NA (s) (s) 1 1 1 1 2 2 2 3 6 7 7 11 1 9 2 41	NA NA NA NA NA NA NA NA NA NA NA NA NA N	19 15 12 9 8 8 21 24 94 113 119 92 95 5 101 105 103 103 109 111 115 108	19 15 12 9 8 8 21 24 98 119 128 101 105 114 120 120 130 137 142 154 164 160 182	2,834 2,551 2,723 3,177 4,237 4,105 3,732 4,105 4,120 4,120 4,128 4,132 4,132 4,052 4,132 4,100 4,053 4,100 4,053 4,100 4,053 4,100	225 350 543 789 1,201 1,906 2,351 2,860 3,252 3,956 4,062 4,110 4,090 4,198 4,435 4,455 4,459 4,559 4,539 4,531 4,531 4,531	834 984 1,344 1,880 2,908 3,835 4,567 5,368 6,564 7,337 8,942 8,90 9,104 8,958 9,225 9,451 9,451 9,743 9,477 9,385 9,168 9,206	3,893 3,895 4,609 5,845 8,346 10,578 11,451 13,320 14,690 17,175 17,137 17,346 17,685 17,707 18,053 18,402 17,885 17,973 18,088 17,973 18,088 17,973 17,422 17,932
2014 January February March April May June July August September October November December Total	5 5 5 3 2 3 2 2 2 2 3 4 40	590 505 434 259 182 146 142 141 153 208 373 440 3,572	61 R 61 R 57 R 35 R 41 38 R 35 37 R 44 48 R 53 R 58 R 58	656 R 572 R 496 297 226 R 186 180 R 180 200 R 258 R 429 502 R 4,181	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3345555554333 52	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	11 9 10 10 11 11 11 11 10 10 10	16 14 17 R 16 18 17 18 18 17 16 15 15	R 671 R 586 513 R 313 R 243 R 203 R 197 R 198 R 216 275 445 R 517	389 356 365 350 374 404 428 429 410 386 356 369 4,614	806 686 742 685 777 838 873 866 765 739 740 742 9,261	R 1,865 R 1,628 1,620 R 1,347 R 1,394 1,499 1,493 1,391 R 1,540 R 1,628 R 18,253
2015 January February March April January June July August September October November December Total	4 4 2 2 2 2 2 2 2 2 2 3 3	551 535 399 240 166 140 138 140 143 201 293 364 3,309	R 94 R 84 R 78 R 62 R 64 R 54 R 58 R 61 R 58 R 85 R 87 R 94	R 649 R 623 R 480 R 304 R 231 R 197 R 198 R 203 R 202 R 289 R 382 R 461 R 4,219	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3 4 5 5 5 6 6 6 6 5 5 5 4 3 57	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	R 12 R 11 R 12 R 12 R 12 R 13 R 13 R 13 R 12 R 12 R 12 R 146	R 17 R 16 R 19 R 19 R 20 R 21 R 20 R 19 R 18 R 17 R 18 R 224	R 666 R 639 R 499 R 323 R 251 R 216 R 219 R 223 R 221 R 307 R 400 R 479	R 381 R 360 R 368 R 355 R 373 R 407 R 438 R 439 R 417 R 385 R 355 R 365 4,643	R 756 R 707 R 692 R 674 R 767 R 829 R 886 R 859 R 776 R 715 R 698 R 711 9,073	R 1,803 R 1,706 R 1,559 R 1,353 R 1,391 R 1,452 R 1,544 R 1,520 R 1,414 R 1,407 R 1,454 R 1,554 R 18,159
Pebruary February March April May June July August September October 10-Month Total	R 3 R 3 R 2 R 1 2 2 1 1 19	R 525 431 310 242 178 144 141 R 146 150 199 2,464	R 101 R 97 R 83 R 76 R 74 R 63 R 67 R 61 R 70 81	R 628 R 531 R 396 R 319 R 253 R 209 R 209 R 209 R 221 281 3,256	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	2 2 2 2 2 2 2 2 2 2 2 2 16	4 5 6 7 7 7 8 7 6 6 63	(s) (s) (s) (s) (s) (s) (s) (s) (s)	R 13 R 12 R 13 R 12 R 12 R 12 R 13 R 13 R 13 R 13	R 18 R 18 R 21 R 21 R 21 R 21 R 22 R 22 R 20 20 205	R 647 R 550 R 417 R 339 R 274 R 230 R 231 R 230 R 241 302 3,461	375 351 359 346 368 408 441 458 420 383 3,909	756 663 683 677 756 846 911 899 784 736 7,712	R 1,778 R 1,563 R 1,459 R 1,363 R 1,398 R 1,484 R 1,583 R 1,583 R 1,587 R 1,445 1,421 15,082
2015 10-Month Total 2014 10-Month Total	26 33	2,653 2,760	697 457	3,376 3,250	(s) (s)	16 16	50 46	1 1	122 104	189 167	3,564 3,417	3,923 3,889	7,661 7,776	15,149 15,082

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."
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.
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.

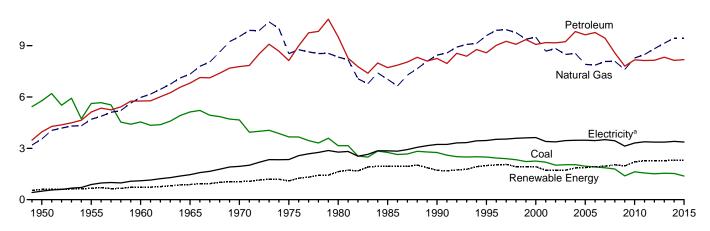
data beginning in 1973.

Sources: See end of section.

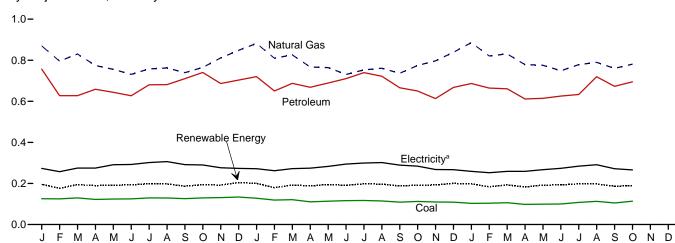
Figure 2.4 Industrial Sector Energy Consumption (Quadrillion Btu)

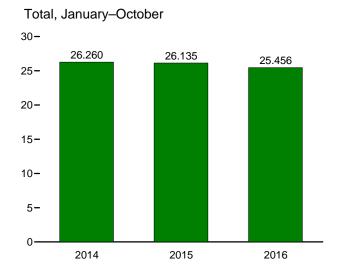
By Major Source, 1949-2015





By Major Source, Monthly





Natural 0.781 Gas 0.695 Petroleum 0.266 Electricity^a Renewable 0.189 Energy 0.114 Coal 0.3

By Major Source, October 2016

0.0

2016

0.6

0.9

^a Electricity retail sales. $Web\ \ \text{Page:}\ \ http://www.eia.gov/totalenergy/data/monthly/\#consumption.$ Source: Table 2.4.

Table 2.4 Industrial Sector Energy Consumption

		<u> </u>			Primar	y Consum	ptiona							
		Fossi	l Fuels			F	enewable	e Energy ^b)					
	Coal	Natural Gas ^c	Petro- leum ^d	Totale	Hydro- electric Power ^f	Geo- thermal	Solar ^g	Wind	Bio- mass	Total	Total Primary	Elec- tricity Retail Sales ^h	Electrical System Energy Losses	Totale
1950 Total 1955 Total 1965 Total 1966 Total 1966 Total 1970 Total 1970 Total 1975 Total 1980 Total 1980 Total 1990 Total 1990 Total 1990 Total 2000 Total 2001 Total 2002 Total 2003 Total 2005 Total 2006 Total 2006 Total 2007 Total 2008 Total 2008 Total 2009 Total 2009 Total 2010 Total 2011 Total 2011 Total 2011 Total 2011 Total	5,781 5,620 4,543 5,127 4,656 3,655 2,760 2,756 2,488 2,256 2,192 2,019 2,047 1,954 1,914 1,865 1,793 1,631 1,563 1,513 1,546	3,546 4,701 5,973 7,339 9,536 8,532 8,451 9,592 9,500 8,678 8,832 8,488 8,488 8,003 7,907 7,861 8,074 8,083 7,609 8,278 8,481 8,481 9,5140	3,960 5,123 5,766 8,127 9,509 7,714 8,585 9,073 9,167 9,229 9,634 9,767 9,442 8,576 7,806 8,167 8,131 8,131 8,321	13,288 15,434 16,277 19,260 21,911 20,3962 17,492 19,463 20,772 20,074 20,078 19,809 19,540 19,603 19,405 18,493 16,784 18,070 18,184 18,070 18,184 18,070 18,184 18,070	69 38 39 33 34 32 33 33 31 55 42 33 39 43 32 29 16 17 17 18 16 17 22 33	NA NA NA NA NA NA NA S S S S S S S S S S	NA N	NA NA NA NA NA NA - - - - (s) (s)	532 631 680 855 1,019 1,063 1,691 1,984 1,881 1,681 1,676 1,678 1,815 1,834 1,834 1,832 1,937 2,012 1,948 2,185 2,246 2,226	602 669 719 888 1,053 1,063 1,951 1,717 1,992 1,928 1,712 1,871 1,852 1,871 1,958 2,035 1,958 2,272 2,208 2,272	13,890 16,103 16,996 20,148 22,964 21,434 22,595 19,443 21,180 22,823 21,798 21,534 21,534 21,410 21,529 21,528 21,536 20,528 18,756 20,278 20,452 20	500 887 1,107 1,463 1,948 2,346 2,855 3,226 3,455 3,631 3,477 3,454 3,473 3,477 3,454 3,473 3,474 3,363 3,363 3,363	1,852 2,495 2,739 3,487 4,716 5,632 6,644 6,518 7,404 7,796 8,208 7,565 7,631 7,554 7,631 7,555 7,631 7,555 6,934 7,005 6,934 7,005 6,938	16,241 19,485 20,842 29,628 29,628 29,413 32,039 28,816 31,810 33,970 34,662 32,661 32,553 33,556 32,442 32,391 32,385 31,334 28,466 30,526 30,843 30,915 31,409
Pebruary February March April May June July August September October November December Total	126 125 129 122 124 125 129 129 126 130 131 134 1,530	870 795 830 774 755 731 758 762 740 765 811 848 9,441	757 627 R 627 R 658 644 627 681 R 710 R 740 R 740 R 703 R 8,143	R 1,751 1,546 R 1,586 1,554 1,552 1,482 1,566 1,570 R 1,573 1,633 1,627 1,683 R 19,093	1 1 1 1 1 1 1 1 1 1 1 1 1	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	1 1 1 1 1 1 1 1 1 1 1	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	193 175 192 187 190 196 195 185 192 190 202	195 177 194 189 192 193 199 198 187 194 192 204 2,314	1,947 R 1,722 1,781 R 1,743 1,714 1,675 1,765 R 1,760 R 1,760 1,827 1,819 1,887	273 257 275 275 291 292 302 306 292 290 277 273 3,404	567 496 559 538 605 607 616 619 545 555 575 550 6,832	2,787 R 2,475 R 2,614 2,556 2,610 R 2,574 2,682 2,693 2,597 R 2,672 2,671 R 2,710 R 31,643
2015 January	128 119 121 110 114 116 117 115 109 112 110 109 1,380	882 810 826 767 764 731 753 761 736 775 797 839 9,440	R 720 R 650 R 688 R 668 R 710 R 740 R 722 R 666 R 650 R 613 R 667	R 1,728 R 1,578 R 1,634 R 1,543 R 1,564 R 1,554 R 1,609 R 1,596 R 1,512 R 1,535 R 1,517 R 1,614 R 18,986	1 1 1 1 1 1 1 1 1 1 1 1 1	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	1 1 1 1 1 1 1 1 1 1 1	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	198 177 R 190 185 192 188 195 194 R 186 189 190 198	200 179 192 188 195 191 198 R 197 188 192 193 200 R 2,315	R 1,928 R 1,758 R 1,826 R 1,759 R 1,759 R 1,746 R 1,807 R 1,793 R 1,700 R 1,727 R 1,710 R 1,815 R 21,301	272 262 272 275 283 294 299 302 289 284 268 267 3,366	R 539 515 R 512 R 521 R 581 R 599 R 605 R 591 R 538 528 R 526 R 520 6,578	R 2,739 R 2,534 R 2,610 R 2,527 R 2,623 R 2,639 R 2,712 R 2,685 R 2,527 R 2,539 R 2,504 R 2,602 R 31,244
Page 2016 January	R 103 R 104 R 106 R 98 R 99 R 100 108 113 105 114 1,049	886 R 820 R 831 779 R 775 R 748 778 R 790 760 781 7,949	R 687 R 664 R 661 R 611 R 614 R 626 R 633 R 720 R 673 695 6,584	R 1,674 R 1,588 R 1,597 R 1,487 R 1,488 R 1,474 R 1,518 R 1,620 R 1,537 1,586 15,570	1 1 1 1 1 1 1 1 1 1 1 1	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	1 1 2 2 2 2 2 2 2 1 15	(s) (s) (s) (s) (s) (s) (s) (s) (s)	195 181 190 179 189 R 190 195 194 184 187 1,883	R 198 184 193 R 183 192 193 198 197 186 189 1,913	R 1,872 R 1,772 R 1,790 R 1,669 R 1,667 R 1,716 R 1,817 R 1,723 1,776 17,483	259 252 259 259 267 274 284 291 272 266 2,682	522 476 493 506 548 567 587 571 508 511 5,290	R 2,653 R 2,500 R 2,542 R 2,434 R 2,496 R 2,508 R 2,587 R 2,680 R 2,503 2,553 25,456
2015 10-Month Total 2014 10-Month Total	1,161 1,265	7,805 7,781	6,903 6,753	15,854 15,783	11 10	3 3	12 9	(s) (s)	1,895 1,894	1,921 1,918	17,775 17,701	2,831 2,854	5,528 5,706	26,135 26,260

See "Primary Energy Consumption" in Glossary.

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

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

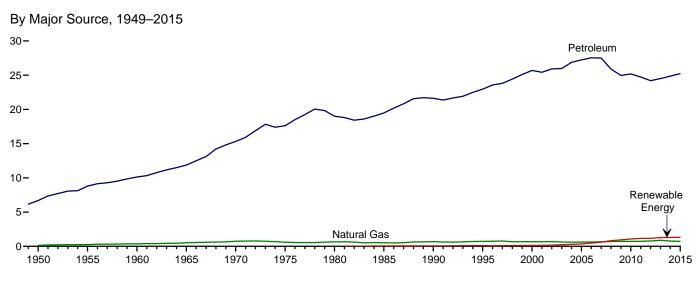
Notes: • Data are estimates, except for coal totals; hydroelectric power in 1949–1978 and 1989 forward; solar; wind; and electricity retail sales. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. See Note 2, "Classification of Power Plants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

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.

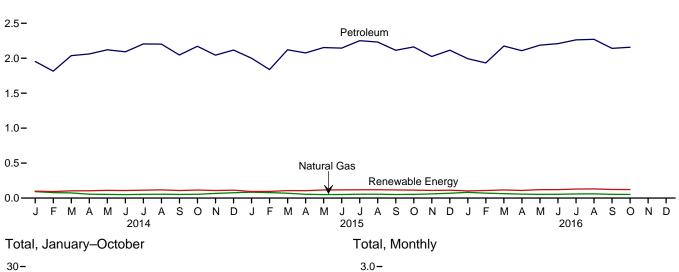
a See "Primary Energy Consumption" in Glossary.
 b See Table 10.2b for notes on series components and estimation.
 c Natural gas only; excludes the estimated portion of supplemental gaseous fuels. See Note 3, "Supplemental Gaseous Fuels," at end of Section 4.
 d Does not include biofuels that have been 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.
 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

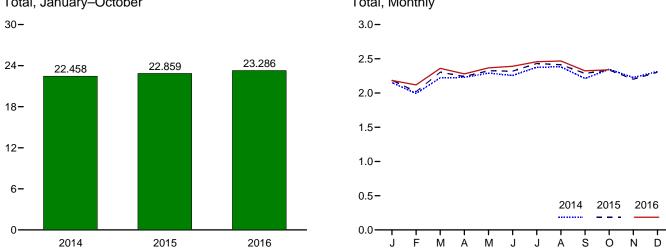
Figure 2.5 Transportation Sector Energy Consumption (Quadrillion Btu)





3.0-





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

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Table 2.5 Transportation Sector Energy Consumption

			Primary Cor	nsumptiona					
		Fossil	l Fuels		Renewable Energy ^b	Total	Electricity	Electrical System	
	Coal	Natural Gas ^c	Petroleum ^d	Total	Biomass	Total Primary	Retail Sales ^e	Energy Losses ^f	Total
1950 Total 1955 Total 1960 Total 1960 Total 1965 Total 1970 Total 1970 Total 1975 Total 1985 Total 1985 Total 1995 Total 1995 Total 2000 Total 2001 Total 2001 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2008 Total 2008 Total 2009 Total 2009 Total 2009 Total 2001 Total 2011 Total 2012 Total 2013 Total 2014 Total 2015 Total 2017 Total 2017 Total 2018 Total 2019 Total	1,564 421 75 16 7 1 (9) (9) (9) (9) (9) (9) (9) (9) (9) (9)	130 254 359 517 745 595 650 519 680 724 672 658 699 627 602 624 625 663 692 715 719 734 780 887	6,690 8,799 10,125 11,866 15,310 17,615 19,009 19,472 21,626 22,1626 22,5689 25,419 25,917 25,969 26,872 27,236 27,538 27,505 25,888 24,955 25,184 24,202 24,506	8,383 9,474 10,560 12,399 16,062 18,210 19,659 19,992 22,306 23,683 26,361 26,077 26,616 26,596 27,474 27,860 28,163 28,163 28,163 28,163 28,163 25,670 25,903 25,474 24,982 25,394	NA NA NA NA NA NA NA NA 112 135 142 170 230 290 339 475 602 825 935 1,075 1,158 1,162 1,278	8,383 9,474 10,560 12,399 16,062 18,210 19,659 20,041 22,366 23,796 26,219 26,785 26,219 26,785 26,826 27,764 28,199 28,638 28,771 27,404 26,605 26,678 26,632 26,632 26,632 26,671	23 20 10 10 11 11 11 14 16 17 18 20 23 25 26 25 28 26 27 26 26 26 25 26	86 56 24 24 22 37 32 37 38 42 43 42 51 54 56 56 56 56 55 54	8,492 9,550 10,596 12,432 16,098 18,245 19,697 20,088 22,420 23,851 26,555 26,282 26,846 26,900 27,843 28,280 28,717 28,858 27,486 26,687 27,059 26,712 26,750
Pebruary February March April May June July August September October November December Total	(9) (9) (9) (9) (9) (9)	92 79 73 56 52 50 54 55 52 54 67 77 760	R 1,954 R 1,815 2,037 R 2,061 R 2,121 R 2,092 2,204 2,204 2,1046 2,171 R 2,044 R 2,1117 R 24,865	R 2,046 R1,894 R 2,111 R 2,117 R 2,117 R 2,1173 R 2,142 R 2,258 R 2,258 R 2,258 R 2,258 R 2,211 R 2,111 R 2,194 R 25,625	99 93 103 104 110 108 113 117 109 115 108 113 R 1,292	2,144 R 1,987 R 2,214 R 2,221 R 2,283 R 2,250 R 2,371 R 2,374 R 2,207 2,340 R 2,219 R 2,207 R 2,207	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5 4 4 5 4 4 4 5 5 4 4 5 7 7	R 2,152 R 1,994 R 2,221 R 2,228 R 2,296 R 2,256 R 2,377 R 2,381 R 2,213 R 2,213 R 2,226 R 2,313 R 26,996
Petron January February March April May June July August September October November December Total	(a) (a) (a) (a) (a) (a) (a)	84 78 69 54 50 51 56 55 51 53 60 69	R 2,001 R 1,838 R 2,120 R 2,076 R 2,153 R 2,145 R 2,251 R 2,251 R 2,231 R 2,114 R 2,162 R 2,024 R 2,115 R 25,230	R 2,084 R 1,916 R 2,190 R 2,130 R 2,203 R 2,196 R 2,306 R 2,286 R 2,215 R 2,085 R 2,215 R 2,085 R 2,185 R 2,185	R 94 R 95 R 107 R 105 R 116 R 117 R 118 R 120 R 116 R 114 R 110 R 113 R 1,325	R 2,179 R 2,012 R 2,297 R 2,235 R 2,313 R 2,425 R 2,406 R 2,281 R 2,329 R 2,195 R 2,197 R 27,287	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	R 5 5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	R 2,186 R 2,019 R 2,304 R 2,241 R 2,325 R 2,319 R 2,441 R 2,412 R 2,287 R 2,336 R 2,201 R 2,304
2016 January	(9) (9) (9) (9) (9) (9)	82 70 63 56 53 54 59 60 53 605	R 1,993 R 1,933 R 2,175 R 2,108 R 2,187 R 2,209 R 2,262 R 2,270 R 2,141 2,158 21,436	R 2,075 R 2,003 R 2,238 R 2,164 R 2,240 R 2,263 R 2,321 R 2,330 R 2,194 2,210 22,040	R 102 R 108 R 117 R 109 R 121 R 121 R 129 R 131 R 123 122 1,182	R 2,177 R 2,111 R 2,355 R 2,273 R 2,361 R 2,384 R 2,450 R 2,461 R 2,317 2,332 23,223	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5 4 4 4 4 5 4 4 4 4 4 4 4 4 4 4 4 4 4 4	R 2,184 R 2,118 R 2,361 R 2,367 R 2,367 R 2,367 R 2,4457 R 2,467 R 2,323 2,339 23,286
2014 10-Month Total	$\left\{ \begin{smallmatrix} g \\ g \end{smallmatrix} \right\}$	602 616	21,090 20,705	21,692 21,320	1,103 1,071	22,795 22,391	22	43 44	22,859 22,458

section.

⁹ 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 Collumbia

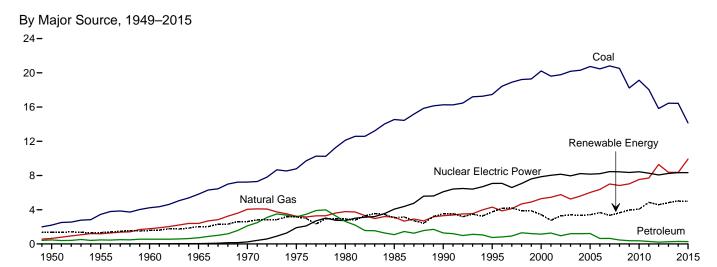
Columbia.

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.

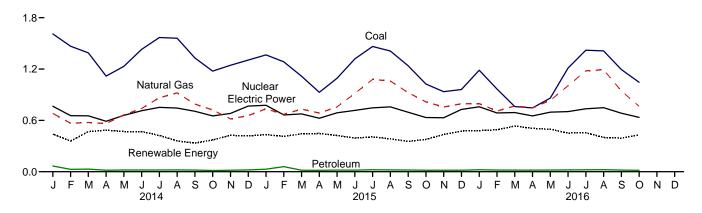
<sup>a See "Primary Energy Consumption" in Glossary.
b See Table 10.2b for notes on series components.
c Natural gas only; does not include supplemental gaseous fuels—see Note 3, "Supplemental Gaseous Fuels," at end of Section 4. Data are for natural gas consumed in the operation of pipelines (primarily 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."
Electricity retail sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
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</sup>

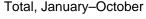
Electric Power Sector Energy Consumption Figure 2.6 (Quadrillion Btu)

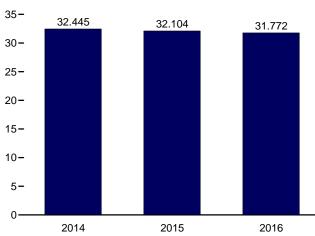


By Major Source, Monthly

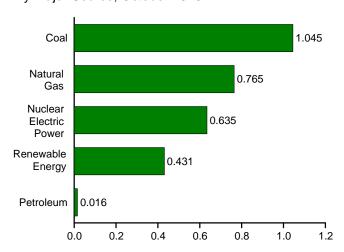
2.4-







By Major Source, October 2016



Web Page: http://www.eia.gov/totalenergy/data/monthly/#consumption.

Source: Table 2.6.

Electric Power Sector Energy Consumption Table 2.6

	Primary Consumption ^a												
		Fossil	Fuels					Renewabl	e Energy ^b			Floo	
	Coal	Natural Gas ^c	Petro- leum	Total	Nuclear Electric Power	Hydro- electric Power ^d	Geo- thermal	Solar ^e	Wind	Bio- mass	Total	Elec- tricity Net Imports ^f	Total Primary
1950 Total 1955 Total 1965 Total 1965 Total 1965 Total 1970 Total 1970 Total 1980 Total 1980 Total 1980 Total 1980 Total 1995 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2008 Total 2009 Total 2009 Total 2010 Total 2011 Total 2011 Total 2011 Total 2011 Total 2011 Total 2012 Total	17,466 20,220 19,614 19,783 20,185 20,305 20,737 20,462 20,808 20,513 18,225 19,133 18,035 15,821	651 1,194 1,785 2,395 4,054 3,240 3,778 3,135 3,309 4,302 5,293 5,458 5,767 5,595 6,015 6,015 7,005 6,829 7,022 7,528 7,712 9,287 8,376	472 471 553 722 2,117 3,166 1,289 755 1,144 1,201 1,201 1,222 637 648 459 382 370 295 214 255	3,322 5,123 6,565 8,938 13,399 15,191 18,534 18,767 20,859 22,523 26,638 26,511 26,638 26,511 27,101 27,774 27,474 27,474 27,475 28,461 27,801 27,031 26,042 25,322 25,082	0 0 6 43 239 1,900 2,739 4,075 6,104 7,075 7,862 8,029 8,145 7,960 8,223 8,161 8,255 8,459 8,459 8,434 8,269 8,062 8,062 8,044	1,346 1,322 1,5026 2,600 3,122 2,837 3,014 3,149 2,768 2,749 2,650 2,749 2,655 2,430 2,494 2,650 2,521 3,085 2,521 3,085 2,529	NA NA (s) 2 6 34 34 97 161 138 144 147 146 148 147 145 145 146 148 149 148 149 148	NA AAA NA S S S G G S G G S G G S G G S G G S G G S G G S G G S G G S G G S G G S G	NA NA NA NA NA NA (s) 29 33 57 70 105 113 142 178 264 341 546 721 923 1,167 1,339 1,600	5 3 4 2 4 14 317 422 453 387 388 406 412 423 435 441 459 437 453 470	1,351 1,325 1,571 2,031 2,609 3,158 2,925 3,049 3,524 3,747 3,427 2,288 3,413 3,339 3,406 3,630 3,630 3,630 4,064 4,855 4,883	6 14 15 (s) 7 21 140 8 134 115 75 72 22 22 22 21 116 89 127 161 197	4,679 6,461 8,158 11,012 16,253 20,270 24,269 26,032 30,495 38,062 33,479 38,062 38,701 39,626 39,417 40,371 39,669 39,619 39,619 39,293 38,131 38,357
2014 January February March April May June July August September October November December Total	1,611 1,467 1,389 1,118 1,232 1,430 1,568 1,560 1,329 1,176 1,244 1,305 16,427	681 566 576 563 664 739 865 921 791 722 616 656 8,362	67 27 31 17 20 20 21 19 15 17 21	2,359 2,060 1,996 1,698 1,916 2,189 2,453 2,502 2,140 1,912 1,878 1,982 25,085	765 655 653 590 658 713 752 744 706 653 681 767 8,338	205 164 230 241 251 244 231 187 152 162 176 211 2,454	13 11 13 12 13 12 13 13 12 13 13 13 13	7 8 12 14 16 18 17 17 17 16 13 10	170 133 169 177 148 150 116 97 109 138 179 140 1,726	45 42 46 41 41 45 48 46 43 42 44 45 530	440 359 469 485 469 470 423 361 334 371 425 419 5,026	14 11 12 12 16 15 18 20 18 15 16 15	3,578 3,085 3,130 2,785 3,059 3,387 3,626 3,198 2,951 3,000 3,183 38,629
Petron January	1,366 1,284 1,116 928 1,092 1,319 1,464 1,411 1,238 1,025 936 960 14,138	735 670 732 686 758 915 1,079 1,060 924 817 756 794 9,926	29 59 18 17 19 23 21 20 17 18 17 276	2,130 2,013 1,865 1,630 1,869 2,252 2,566 2,492 2,182 1,860 1,710 1,771 24,341	777 664 675 625 688 717 747 757 695 633 630 728 8,337	224 207 225 208 186 189 195 177 149 154 179 214 2,308	13 12 13 12 13 12 13 13 11 12 12 13 148	11 14 19 22 23 23 24 25 20 17 16 14 228	141 139 143 166 160 125 127 122 130 152 183 187 1,776	45 41 43 40 41 44 48 48 43 41 44 47 525	433 412 443 448 423 393 407 384 354 378 434 476 4,985	18 14 19 20 20 21 21 22 20 16 18 17 227	3,357 3,103 3,002 2,723 3,002 3,383 3,741 3,655 3,251 2,886 2,792 2,993 37,890
2016 January February March April May June July August September October 10-Month Total	1,186 967 761 746 860 1,211 1,420 1,412 1,194 1,045 10,803	797 709 768 746 834 1,004 1,179 1,192 944 765 8,938	23 21 18 18 19 20 24 24 24 20 16 203	2,005 1,697 1,548 1,510 1,713 2,235 2,623 2,629 2,158 1,827 19,944	759 686 692 652 696 703 736 748 684 635 6,991	235 224 250 236 235 212 197 180 151 160 2,080	14 13 14 12 14 13 13 13 14 14 14	14 22 24 27 32 32 37 36 33 29 286	172 188 203 191 175 152 164 126 153 190 1,714	45 43 43 40 40 42 45 46 41 39	480 490 534 506 496 452 456 401 392 431 4,637	21 17 18 15 19 23 25 24 20 18	3,265 2,890 2,792 2,684 2,924 3,412 3,840 3,801 3,254 2,911 31,772
2015 10-Month Total 2014 10-Month Total	12,242	8,375 7,088	241 257	20,859 21,224	6,978 6,889	1,914 2,067	123 125	198 142	1,405 1,407	434 441	4,074 4,182	192 151	32,10 32,44

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.

data beginning in 1973.
Sources: See end of section.

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

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

										_			
Fiscal Year ^a	Agri- culture	Defense	Energy	GSA b	HHSc	Interior	Justice	NASAd	Postal Service	Trans- portation	Veterans Affairs	Othere	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	10.7	50.9	5.5	30.6	41.0	1,132.3
2004	7.7	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	10.3	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	10.2	45.8	5.6	30.0	38.1	1,070.4
2008	6.5	910.8	32.1	18.8	10.3	7.5 7.1	19.0	10.8	47.1	7.7	29.0	42.4	1,141.5
2009													
2009	6.6 6.8	874.3	31.1 31.7	18.6	10.8	7.9 7.3	16.5 15.7	10.2	44.2 43.3	4.3	29.9 30.2	40.4 42.9	1,094.8 1.112.7
	6.8 8.3	889.9 890.3	31.7	18.8	10.4 10.5	7.3 7.3	13.7	10.1	43.3 43.0	5.7 6.7		42.9 41.7	1,112.7
2011				18.5				10.1		6.7	30.6		
	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.

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

^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

Table 2.8 U.S. Government Energy Consumption by Source, Fiscal Years

	-										1	
					Petro	oleum			011			
Fiscal Year ^a	Coal	Natural Gas ^b	Aviation Gasoline	Fuel Oil ^c	Jet Fuel	LPG ^d	Motor Gasoline ^e	Total	Other Mobility Fuels ^f	Elec- tricity	Purchased Steam and Other ^g	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 .2	190.8	517.9 508.2	3.2 2.9	46.3	758.4	3.3	193.8	23.2	1,132.3
2004	17.4	135.3		261.4			44.1	816.9	3.1	197.1	22.0	1,191.7
2006	17.1 23.5	135.7 132.6	.4	241.4 209.3	492.2 442.6	3.4 2.7	48.8 48.3	786.1 703.6	5.6 2.1	197.6 196.7	24.3 18.2	1,166.4
												1,076.4
2007	20.4 20.8	131.5 129.4	.4	212.9 198.4	461.1 524.3	2.7	46.5 48.7	723.7 774.0	2.9 3.6	194.9 196.0	16.7 17.7	1,090.2
2009			.4	196.4		2.3 3.2	48.3					1,141.5 1,094.8
2010	20.3 20.0	131.7 130.1	.3	157.8	505.7 535.8	2.5	40.3 51.3	723.9 747.7	10.1 3.0	191.3 193.7	17.7 18.2	1,094.6
2011	18.5	124.7	.9	166.5	533.6	2.5	51.3 52.7	747.7 755.8	2.7	193.7	19.1	1,112.7
2012	15.9	116.2	.9	148.6	493.5	1.7	52.7 50.1	755.6 694.4	3.1	187.2	22.5	1,039.3
2013	14.3	122.5	.7	148.6	493.5 424.0	1.7	46.6	613.2	2.8	184.7	22.5 21.8	959.3
2014	13.5	122.5	.7	133.5	424.0 414.3	1.9	46.6 44.9	594.8	3.6	184.7	21.8	959.3 941.5
2015	12.6	123.3	.3	134.3	414.3	1.8	46.8	602.1	3.7	184.0	21.3	947.0
2010	12.0	120.0	.3	154.5	410.3	1.0	40.0	002.1	3.7	104.0	21.0	341.0

^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

 ^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

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 steamelectric 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 enduse 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 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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