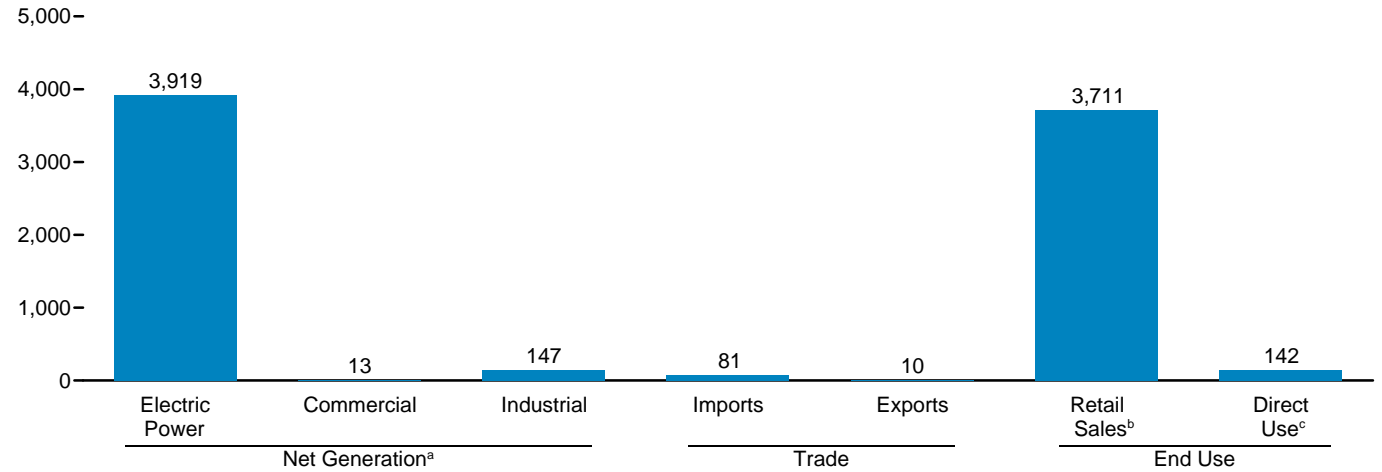


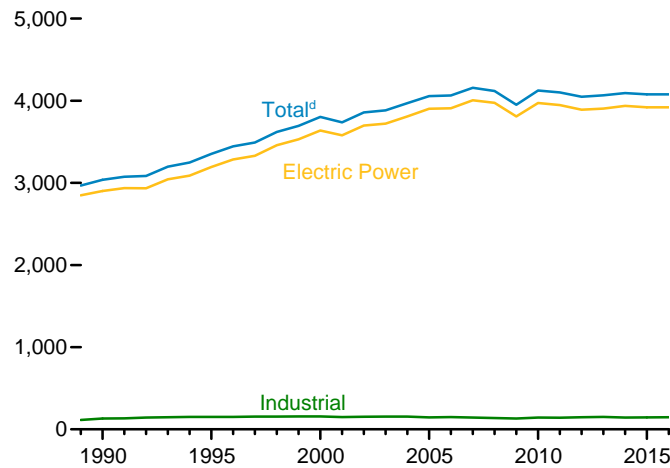
7. Electricity

Figure 7.1 Electricity Overview
(Billion Kilowatthours)

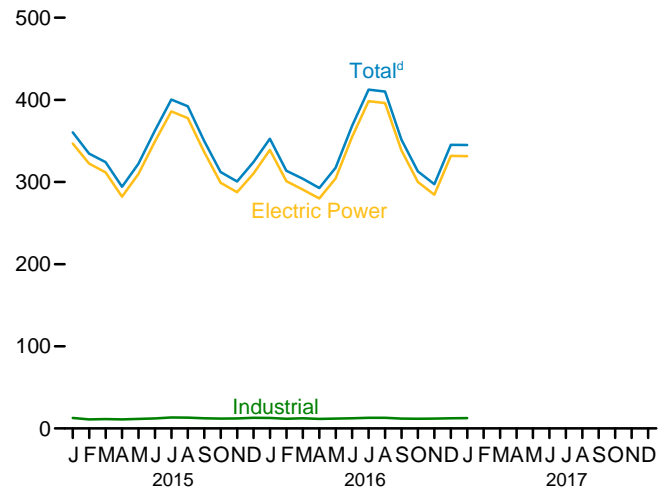
Overview, 2016



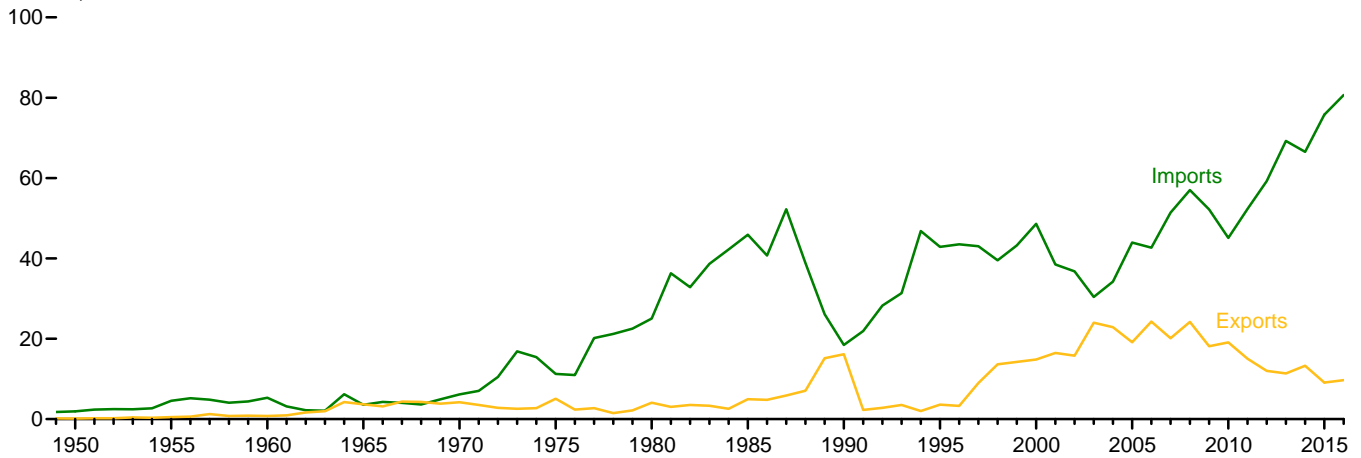
Net Generation^a by Sector, 1989–2016



Net Generation^a by Sector, Monthly



Trade, 1949–2016



^a Data are for utility-scale facilities.

^b Electricity retail sales to ultimate customers reported by electric utilities and other energy service providers.

^c See "Direct Use" in Glossary.

^d Includes commercial sector.

Web Page: <http://www.eia.gov/totalenergy/data/monthly/#electricity>.

Source: Table 7.1.

Table 7.1 Electricity Overview
(Billion Kilowatthours)

| | Net Generation ^a | | | | Trade | | | T&D Losses ^f and Unaccounted for ^g | End Use | | |
|--------------|--|--|--|-------|----------------------|----------------------|-----------------------------|---|------------------------------|----------------------------|-------|
| | Electric Power Sector ^b | Com- mercial Sector ^c | Indus- trial Sector ^d | Total | Imports ^e | Exports ^e | Net Imports ^e | | Retail Sales ^h | Direct Use ⁱ | Total |
| 1950 Total | 329 | NA | 5 | 334 | 2 | (s) | 2 | 44 | 291 | NA | 291 |
| 1955 Total | 547 | NA | 3 | 550 | 5 | (s) | 4 | 58 | 497 | NA | 497 |
| 1960 Total | 756 | NA | 4 | 759 | 5 | 1 | 5 | 76 | 688 | NA | 688 |
| 1965 Total | 1,055 | NA | 3 | 1,058 | 4 | 4 | (s) | 104 | 954 | NA | 954 |
| 1970 Total | 1,532 | NA | 3 | 1,535 | 6 | 4 | 2 | 145 | 1,392 | NA | 1,392 |
| 1975 Total | 1,918 | NA | 3 | 1,921 | 11 | 5 | 6 | 180 | 1,747 | NA | 1,747 |
| 1980 Total | 2,286 | NA | 3 | 2,290 | 25 | 4 | 21 | 216 | 2,094 | NA | 2,094 |
| 1985 Total | 2,470 | NA | 3 | 2,473 | 46 | 5 | 41 | 190 | 2,324 | NA | 2,324 |
| 1990 Total | 2,901 | 6 | ^c 131 | 3,038 | 18 | 16 | 2 | 203 | 2,713 | 125 | 2,837 |
| 1995 Total | 3,194 | 8 | 151 | 3,353 | 43 | 4 | 39 | 229 | 3,013 | 151 | 3,164 |
| 2000 Total | 3,638 | 8 | 157 | 3,802 | 49 | 15 | 34 | 244 | 3,421 | 171 | 3,592 |
| 2001 Total | 3,580 | 7 | 149 | 3,737 | 39 | 16 | 22 | 202 | 3,394 | 163 | 3,557 |
| 2002 Total | 3,698 | 7 | 153 | 3,858 | 37 | 16 | 21 | 248 | 3,465 | 166 | 3,632 |
| 2003 Total | 3,721 | 7 | 155 | 3,883 | 30 | 24 | 6 | 228 | 3,494 | 168 | 3,662 |
| 2004 Total | 3,808 | 8 | 154 | 3,971 | 34 | 23 | 11 | 266 | 3,547 | 168 | 3,716 |
| 2005 Total | 3,902 | 8 | 145 | 4,055 | 44 | 19 | 25 | 269 | 3,661 | 150 | 3,811 |
| 2006 Total | 3,908 | 8 | 148 | 4,065 | 43 | 24 | 18 | 266 | 3,670 | 147 | 3,817 |
| 2007 Total | 4,005 | 8 | 143 | 4,157 | 51 | 20 | 31 | 298 | 3,765 | 126 | 3,890 |
| 2008 Total | 3,974 | 8 | 137 | 4,119 | 57 | 24 | 33 | 286 | 3,734 | 132 | 3,866 |
| 2009 Total | 3,810 | 8 | 132 | 3,950 | 52 | 18 | 34 | 261 | 3,597 | 127 | 3,724 |
| 2010 Total | 3,972 | 9 | 144 | 4,125 | 45 | 19 | 26 | 264 | 3,755 | 132 | 3,887 |
| 2011 Total | 3,948 | 10 | 142 | 4,100 | 52 | 15 | 37 | 255 | 3,750 | 133 | 3,883 |
| 2012 Total | 3,890 | 11 | 146 | 4,048 | 59 | 12 | 47 | 263 | 3,695 | 138 | 3,832 |
| 2013 Total | 3,904 | 12 | 150 | 4,066 | 69 | 11 | 58 | 256 | 3,725 | 143 | 3,868 |
| 2014 Total | 3,937 | 13 | 144 | 4,094 | 67 | 13 | 53 | 244 | 3,765 | 139 | 3,903 |
| 2015 January | 347 | 1 | 13 | 360 | 6 | 1 | 5 | 24 | 330 | ^E 12 | 342 |
| February | 322 | 1 | 11 | 334 | 6 | 1 | 4 | 21 | 307 | ^E 11 | 317 |
| March | 312 | 1 | 11 | 324 | 7 | 1 | 6 | 13 | 305 | ^E 11 | 316 |
| April | 282 | 1 | 11 | 294 | 7 | 1 | 6 | 14 | 275 | ^E 11 | 286 |
| May | 310 | 1 | 12 | 322 | 7 | 1 | 6 | 29 | 288 | ^E 11 | 299 |
| June | 349 | 1 | 12 | 362 | 7 | 1 | 6 | 30 | 326 | ^E 12 | 338 |
| July | 386 | 1 | 13 | 400 | 7 | 1 | 6 | 31 | 363 | ^E 13 | 376 |
| August | 378 | 1 | 13 | 392 | 7 | 1 | 7 | 24 | 362 | ^E 13 | 375 |
| September | 337 | 1 | 12 | 350 | 7 | 1 | 6 | 11 | 333 | ^E 12 | 345 |
| October | 299 | 1 | 12 | 312 | 5 | 1 | 5 | 9 | 296 | ^E 12 | 308 |
| November | 288 | 1 | 12 | 301 | 6 | 1 | 5 | 18 | 276 | ^E 12 | 288 |
| December | 310 | 1 | 13 | 324 | 6 | 1 | 5 | 20 | 297 | ^E 12 | 310 |
| Total | 3,919 | 13 | 146 | 4,078 | 76 | 9 | 67 | 244 | 3,759 | 141 | 3,900 |
| 2016 January | 339 | 1 | 13 | 353 | 7 | 1 | 6 | 30 | 317 | ^E 12 | 329 |
| February | 301 | 1 | 12 | 314 | 6 | 1 | 5 | 14 | 293 | ^E 11 | 305 |
| March | 291 | 1 | 12 | 304 | 6 | 1 | 5 | 16 | 282 | ^E 12 | 294 |
| April | 280 | 1 | 12 | 293 | 5 | 1 | 4 | 20 | 266 | ^E 11 | 277 |
| May | 304 | 1 | 12 | 317 | 6 | 1 | 5 | 30 | 281 | ^E 12 | 292 |
| June | 355 | 1 | 12 | 368 | 7 | 1 | 7 | 38 | 325 | ^E 12 | 337 |
| July | 398 | 1 | 13 | 412 | 8 | 1 | 7 | 40 | 367 | ^E 13 | 380 |
| August | 396 | 1 | 13 | 410 | 8 | 1 | 7 | 29 | 376 | ^E 13 | 388 |
| September | 339 | 1 | 12 | 352 | 7 | 1 | 6 | 13 | 332 | ^E 12 | 344 |
| October | 300 | 1 | 12 | 313 | 6 | 1 | 5 | 15 | 292 | ^E 11 | 303 |
| November | 284 | 1 | 12 | 297 | 7 | 1 | 6 | 19 | 273 | ^E 12 | 284 |
| December | 332 | 1 | 12 | 345 | 7 | 1 | 6 | 34 | 306 | ^E 12 | 318 |
| Total | 3,919 | 13 | 147 | 4,079 | 81 | 10 | 71 | 297 | 3,711 | ^E 142 | 3,853 |
| 2017 January | 331 | 1 | 13 | 345 | 7 | 1 | 7 | 25 | 314 | ^E 12 | 327 |

^a Electricity net generation at utility-scale facilities. Does not include distributed (small-scale) solar photovoltaic (PV) generation shown on Table 10.6. See Note 1, "Coverage of Electricity Statistics," at end of section.

^b Electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only; beginning in 1989, data are for electric utilities and independent power producers.

^c Commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

^d Industrial combined-heat-and-power (CHP) and industrial electricity-only plants. Through 1988, data are for industrial hydroelectric power only.

^e Electricity transmitted across U.S. borders. Net imports equal imports minus exports.

^f Transmission and distribution losses (electricity losses that occur between the point of generation and delivery to the customer). See Note 1, "Electrical System Energy Losses," at end of Section 2.

^g Data collection frame differences and nonsampling error.

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

ⁱ Use of electricity that is 1) self-generated, 2) produced by either the same entity that consumes the power or an affiliate, and 3) used in direct support of a service or industrial process located within the same facility or group of facilities that house the generating equipment. Direct use is exclusive of station use.

E=Estimate. NA=Not available. (s)=Less than 0.5 billion kilowatthours.

Notes: • See Note 1, "Coverage of Electricity Statistics," and Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of section.

• Totals may not equal sum of components due to independent rounding.

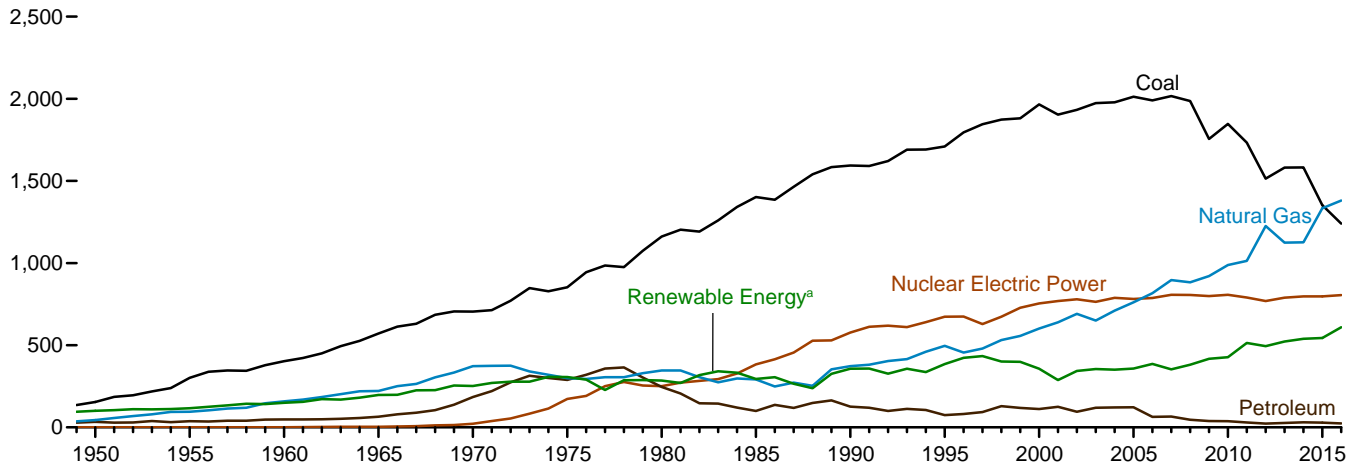
• Geographic coverage is the 50 states and the District of Columbia.

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

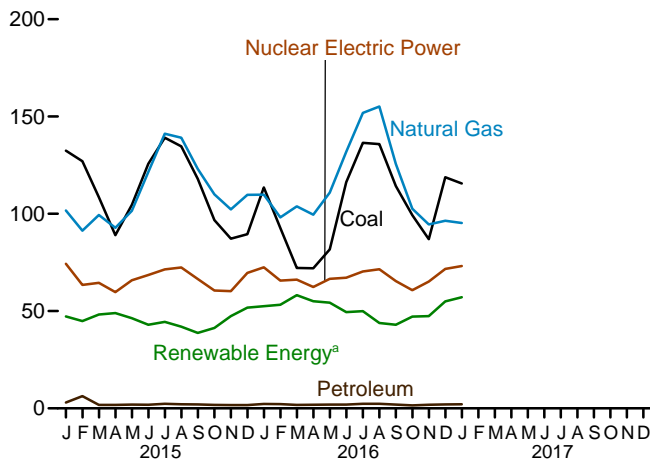
Sources: See end of section.

Figure 7.2 Electricity Net Generation
(Billion Kilowatthours)

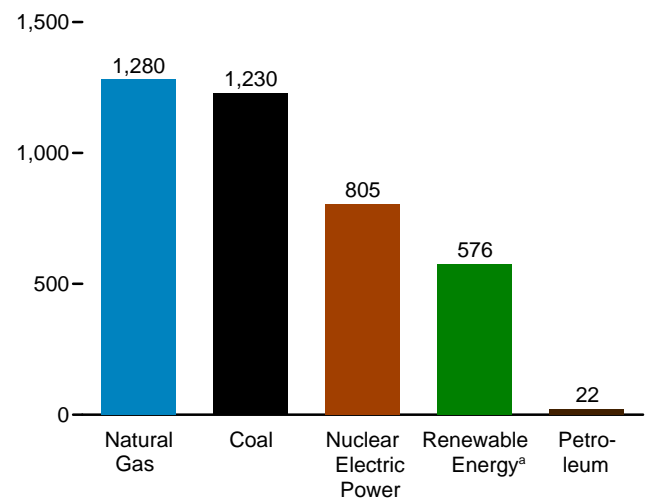
Total (All Sectors), Major Sources, 1949–2016



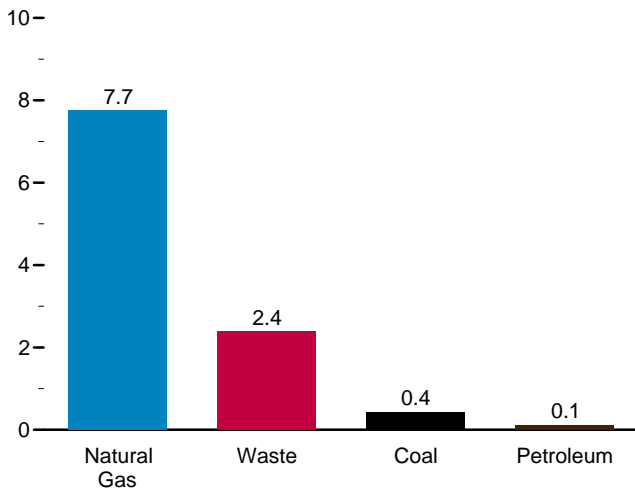
Total (All Sectors), Major Sources, Monthly



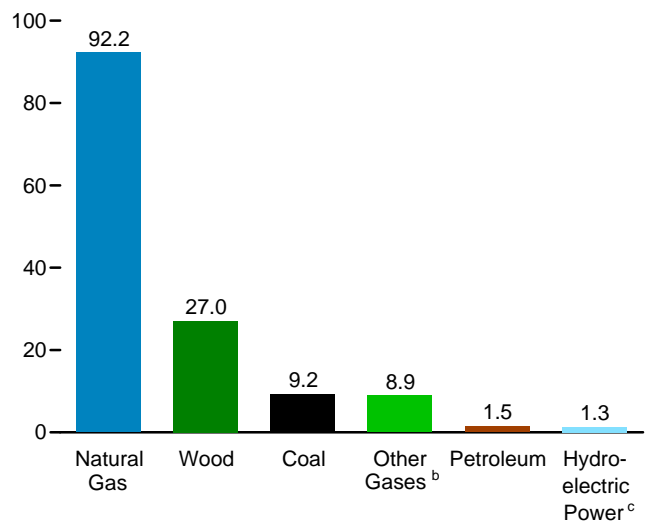
Electric Power Sector, Major Sources, 2016



Commercial Sector, Major Sources, 2016



Industrial Sector, Major Sources, 2016



^a Conventional hydroelectric power, wood, waste, geothermal, solar/PV, and wind.

^b Blast furnace gas, and other manufactured and waste gases derived from fossil fuels.

^c Conventional hydroelectric power.

Note: Data are for utility-scale facilities.

Web Page: <http://www.eia.gov/totalenergy/data/monthly/#electricity>.

Sources: Tables 7.2a–7.2c.

Table 7.2a Electricity Net Generation: Total (All Sectors)
(Sum of Tables 7.2b and 7.2c; Million Kilowatthours)

| | Fossil Fuels | | | | Nuclear Electric Power | Hydro-electric Pumped Storage ^e | Renewable Energy | | | | | Total ^j | |
|-------------------------|-------------------|------------------------|--------------------------|--------------------------|------------------------|--|--|-------------------|--------------------|-------------|--------------------|--------------------|-----------|
| | Coal ^a | Petroleum ^b | Natural Gas ^c | Other Gases ^d | | | Conventional Hydro-electric Power ^f | Biomass | | Geo-thermal | Solar ⁱ | | Wind |
| | | | | | | | | Wood ^g | Waste ^h | | | | |
| 1950 Total | 154,520 | 33,734 | 44,559 | NA | 0 | () | 100,885 | 390 | NA | NA | NA | NA | 334,088 |
| 1955 Total | 301,363 | 37,138 | 95,285 | NA | 0 | () | 116,236 | 276 | NA | NA | NA | NA | 550,299 |
| 1960 Total | 403,067 | 47,987 | 157,970 | NA | 518 | () | 149,440 | 140 | NA | 33 | NA | NA | 759,156 |
| 1965 Total | 570,926 | 64,801 | 221,559 | NA | 3,657 | () | 196,984 | 269 | NA | 189 | NA | NA | 1,058,386 |
| 1970 Total | 704,394 | 184,183 | 372,890 | NA | 21,804 | () | 250,957 | 136 | 220 | 525 | NA | NA | 1,535,111 |
| 1975 Total | 852,786 | 289,095 | 299,778 | NA | 172,505 | () | 303,153 | 18 | 174 | 3,246 | NA | NA | 1,920,755 |
| 1980 Total | 1,161,562 | 245,994 | 346,240 | NA | 251,116 | () | 279,182 | 275 | 158 | 5,073 | NA | NA | 2,289,600 |
| 1985 Total | 1,402,128 | 100,202 | 291,946 | NA | 383,691 | () | 284,311 | 743 | 640 | 9,325 | 11 | 6 | 2,473,002 |
| 1990 Total ^k | 1,594,011 | 126,460 | 372,765 | 10,383 | 576,862 | -3,508 | 292,866 | 32,522 | 13,260 | 15,434 | 367 | 2,789 | 3,037,827 |
| 1995 Total | 1,709,426 | 74,554 | 496,058 | 13,870 | 673,402 | -2,725 | 310,833 | 36,521 | 20,405 | 13,378 | 497 | 3,164 | 3,353,487 |
| 2000 Total | 1,966,265 | 111,221 | 601,038 | 13,955 | 753,893 | -5,539 | 275,573 | 37,595 | 23,131 | 14,093 | 493 | 5,593 | 3,802,105 |
| 2001 Total | 1,903,956 | 124,880 | 639,129 | 9,039 | 768,826 | -8,823 | 216,961 | 35,200 | 14,548 | 13,741 | 543 | 6,737 | 3,736,644 |
| 2002 Total | 1,933,130 | 94,567 | 691,006 | 11,463 | 780,064 | -8,743 | 264,329 | 38,665 | 15,044 | 14,491 | 555 | 10,354 | 3,858,452 |
| 2003 Total | 1,973,737 | 119,406 | 649,908 | 15,600 | 763,733 | -8,535 | 275,806 | 37,529 | 15,812 | 14,424 | 534 | 11,187 | 3,883,185 |
| 2004 Total | 1,987,301 | 121,145 | 710,100 | 15,252 | 788,528 | -8,488 | 268,417 | 38,117 | 15,421 | 14,811 | 575 | 14,144 | 3,970,555 |
| 2005 Total | 2,012,873 | 122,225 | 760,960 | 13,464 | 781,986 | -6,558 | 270,321 | 38,856 | 15,420 | 14,692 | 550 | 17,811 | 4,055,423 |
| 2006 Total | 1,990,511 | 64,166 | 816,441 | 14,177 | 787,219 | -6,558 | 289,246 | 38,762 | 16,099 | 14,568 | 508 | 26,589 | 4,064,702 |
| 2007 Total | 2,016,456 | 65,739 | 896,590 | 13,453 | 806,425 | -6,896 | 247,510 | 39,014 | 16,525 | 14,637 | 612 | 34,450 | 4,156,745 |
| 2008 Total | 1,985,801 | 46,243 | 882,981 | 11,707 | 806,208 | -6,288 | 254,831 | 37,300 | 17,734 | 14,840 | 864 | 55,363 | 4,119,388 |
| 2009 Total | 1,755,904 | 38,937 | 920,979 | 10,632 | 798,855 | -4,627 | 273,445 | 36,050 | 18,443 | 15,009 | 891 | 73,886 | 3,950,331 |
| 2010 Total | 1,847,290 | 37,061 | 987,697 | 11,313 | 806,968 | -5,501 | 260,203 | 37,172 | 18,917 | 15,219 | 1,212 | 94,652 | 4,125,060 |
| 2011 Total | 1,733,430 | 30,182 | 1,013,689 | 11,566 | 790,204 | -6,421 | 319,355 | 37,449 | 19,222 | 15,316 | 1,818 | 120,177 | 4,100,141 |
| 2012 Total | 1,514,043 | 23,190 | 1,225,894 | 11,898 | 769,331 | -4,950 | 276,240 | 37,799 | 19,823 | 15,562 | 4,327 | 140,822 | 4,047,765 |
| 2013 Total | 1,581,115 | 27,164 | 1,124,836 | 12,853 | 789,016 | -4,681 | 268,565 | 40,028 | 20,830 | 15,775 | 9,036 | 167,840 | 4,065,964 |
| 2014 Total | 1,581,710 | 30,232 | 1,126,609 | 12,022 | 797,166 | -6,174 | 259,367 | 42,340 | 21,650 | 15,877 | 17,691 | 181,655 | 4,093,606 |
| 2015 January | 132,451 | 2,973 | 101,687 | 1,246 | 74,270 | -551 | 24,138 | 3,717 | 1,725 | 1,362 | 1,155 | 15,162 | 360,455 |
| February | 126,977 | 6,321 | 91,315 | 1,025 | 63,461 | -456 | 22,286 | 3,372 | 1,524 | 1,260 | 1,484 | 14,922 | 334,476 |
| March | 108,488 | 1,778 | 99,423 | 1,091 | 64,547 | -409 | 24,281 | 3,457 | 1,712 | 1,394 | 2,072 | 15,308 | 324,192 |
| April | 88,989 | 1,728 | 92,806 | 979 | 59,784 | -214 | 22,471 | 3,246 | 1,729 | 1,272 | 2,379 | 17,867 | 294,133 |
| May | 104,585 | 1,939 | 101,516 | 1,099 | 65,827 | -370 | 20,125 | 3,338 | 1,799 | 1,390 | 2,504 | 17,151 | 322,087 |
| June | 125,673 | 1,860 | 121,478 | 1,118 | 68,516 | -398 | 20,414 | 3,496 | 1,784 | 1,302 | 2,558 | 13,421 | 362,409 |
| July | 139,100 | 2,304 | 141,119 | 1,235 | 71,412 | -513 | 21,014 | 3,806 | 1,989 | 1,357 | 2,627 | 13,675 | 400,419 |
| August | 134,670 | 2,133 | 139,084 | 1,196 | 72,415 | -626 | 19,122 | 3,788 | 1,921 | 1,344 | 2,688 | 13,080 | 392,116 |
| September | 117,986 | 2,034 | 123,036 | 1,210 | 66,476 | -544 | 16,094 | 3,450 | 1,805 | 1,203 | 2,217 | 13,972 | 350,122 |
| October | 96,759 | 1,771 | 110,005 | 906 | 60,571 | -443 | 16,630 | 3,252 | 1,843 | 1,323 | 1,910 | 16,380 | 312,112 |
| November | 87,227 | 1,710 | 102,236 | 902 | 60,264 | -285 | 19,338 | 3,418 | 1,902 | 1,334 | 1,730 | 19,682 | 300,653 |
| December | 89,495 | 1,697 | 109,777 | 1,110 | 69,634 | -281 | 23,166 | 3,587 | 1,969 | 1,377 | 1,570 | 20,098 | 324,427 |
| Total | 1,352,398 | 28,249 | 1,333,482 | 13,117 | 797,178 | -5,091 | 249,080 | 41,929 | 21,703 | 15,918 | 24,893 | 190,719 | 4,077,601 |
| 2016 January | 113,551 | 2,296 | 109,787 | 1,263 | 72,525 | -312 | 25,426 | 3,615 | 1,931 | 1,471 | 1,516 | 18,531 | 352,745 |
| February | 92,719 | 2,140 | 98,190 | 1,169 | 65,638 | -399 | 24,150 | 3,394 | 1,713 | 1,372 | 2,443 | 20,204 | 313,749 |
| March | 72,138 | 1,765 | 103,790 | 1,241 | 66,149 | -384 | 27,025 | 3,381 | 1,810 | 1,460 | 2,713 | 21,766 | 303,952 |
| April | 72,002 | 1,831 | 99,561 | 1,149 | 62,365 | -452 | 25,475 | 2,909 | 1,819 | 1,340 | 2,949 | 20,571 | 292,643 |
| May | 81,728 | 1,924 | 110,901 | 977 | 66,576 | -321 | 25,362 | 3,173 | 1,929 | 1,476 | 3,603 | 18,795 | 317,337 |
| June | 116,227 | 1,945 | 131,883 | 1,085 | 67,175 | -497 | 22,902 | 3,414 | 1,829 | 1,364 | 3,610 | 16,318 | 368,418 |
| July | 136,504 | 2,318 | 151,860 | 1,066 | 70,349 | -784 | 21,247 | 3,652 | 1,910 | 1,424 | 4,097 | 17,595 | 412,450 |
| August | 135,811 | 2,360 | 155,117 | 1,102 | 71,526 | -902 | 19,359 | 3,650 | 1,908 | 1,444 | 3,948 | 13,561 | 410,113 |
| September | 114,282 | 1,924 | 125,639 | 1,050 | 65,448 | -715 | 16,281 | 3,369 | 1,763 | 1,451 | 3,683 | 16,430 | 351,769 |
| October | 99,338 | 1,552 | 102,625 | 891 | 60,733 | -561 | 17,249 | 3,105 | 1,752 | 1,489 | 3,193 | 20,380 | 312,828 |
| November | 87,000 | 1,839 | 94,529 | 1,001 | 65,179 | -607 | 18,815 | 3,257 | 1,773 | 1,507 | 2,700 | 19,342 | 297,427 |
| December | 118,790 | 2,011 | 96,412 | 1,007 | 71,662 | -753 | 22,538 | 3,584 | 1,932 | 1,620 | 2,299 | 22,991 | 345,238 |
| Total | 1,240,089 | 23,906 | 1,380,293 | 13,000 | 805,327 | -6,686 | 265,829 | 40,504 | 22,068 | 17,417 | 36,754 | 226,485 | 4,078,670 |
| 2017 January | 115,556 | 2,123 | 95,241 | 1,139 | 73,121 | -418 | 27,741 | 3,455 | 1,877 | 1,541 | 2,220 | 20,270 | 344,973 |

^a Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.

^b Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, waste oil, and, beginning in 2011, propane.

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

^d Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.

^e Pumped storage facility production minus energy used for pumping.

^f Through 1989, hydroelectric pumped storage is included in "Conventional Hydroelectric Power."

^g Wood and wood-derived fuels.

^h Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

ⁱ Electricity net generation from solar thermal and photovoltaic (PV) energy at utility-scale facilities. Does not include distributed (small-scale) solar photovoltaic

generation. See Table 10.6.

^j Includes batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

^k Through 1988, all data except hydroelectric are for electric utilities only; hydroelectric data through 1988 include industrial plants as well as electric utilities. Beginning in 1989, data are for electric utilities, independent power producers, commercial plants, and industrial plants.

NA=Not available.

Notes: • Data are for utility-scale facilities. See Note 1, "Coverage of Electricity Statistics," 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/#electricity> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Sources: See end of section, "Table 7.2b Sources" and "Table 7.2c Sources."

Table 7.2b Electricity Net Generation: Electric Power Sector
(Subset of Table 7.2a; Million Kilowatthours)

| | Fossil Fuels | | | | Nuclear Electric Power | Hydro-electric Pumped Storage ^e | Renewable Energy | | | | | Total ^j | |
|-------------------------|-------------------|------------------------|--------------------------|--------------------------|------------------------|--|--|-------------------|--------------------|-------------|--------------------|--------------------|-----------|
| | Coal ^a | Petroleum ^b | Natural Gas ^c | Other Gases ^d | | | Conventional Hydro-electric Power ^f | Biomass | | Geo-thermal | Solar ⁱ | | Wind |
| | | | | | | | | Wood ^g | Waste ^h | | | | |
| 1950 Total | 154,520 | 33,734 | 44,559 | NA | 0 | () | 95,938 | 390 | NA | NA | NA | NA | 329,141 |
| 1955 Total | 301,363 | 37,138 | 95,285 | NA | 0 | () | 112,975 | 276 | NA | NA | NA | NA | 547,038 |
| 1960 Total | 403,067 | 47,987 | 157,970 | NA | 518 | () | 145,833 | 140 | NA | 33 | NA | NA | 755,549 |
| 1965 Total | 570,926 | 64,801 | 221,559 | NA | 3,657 | () | 193,851 | 269 | NA | 189 | NA | NA | 1,055,252 |
| 1970 Total | 704,394 | 184,183 | 372,890 | NA | 21,804 | () | 247,714 | 136 | 220 | 525 | NA | NA | 1,531,868 |
| 1975 Total | 852,786 | 289,095 | 299,778 | NA | 172,505 | () | 300,047 | 18 | 174 | 3,246 | NA | NA | 1,917,649 |
| 1980 Total | 1,161,562 | 245,994 | 346,240 | NA | 251,116 | () | 276,021 | 275 | 158 | 5,073 | NA | NA | 2,286,439 |
| 1985 Total | 1,402,128 | 100,202 | 291,946 | NA | 383,691 | () | 281,149 | 743 | 640 | 9,325 | 11 | 6 | 2,469,841 |
| 1990 Total ^k | 1,572,109 | 118,864 | 309,486 | 621 | 576,862 | -3,508 | 289,753 | 7,032 | 11,500 | 15,434 | 367 | 2,789 | 2,901,322 |
| 1995 Total | 1,686,056 | 68,146 | 419,179 | 1,927 | 673,402 | -2,725 | 305,410 | 7,597 | 17,986 | 13,378 | 497 | 3,164 | 3,194,230 |
| 2000 Total | 1,943,111 | 105,192 | 517,978 | 2,028 | 753,893 | -5,539 | 271,338 | 8,916 | 20,307 | 14,093 | 493 | 5,593 | 3,637,529 |
| 2001 Total | 1,882,826 | 119,149 | 554,940 | 586 | 768,826 | -8,823 | 213,749 | 8,294 | 12,944 | 13,741 | 543 | 6,737 | 3,580,053 |
| 2002 Total | 1,910,613 | 89,733 | 607,683 | 1,970 | 780,064 | -8,743 | 260,491 | 9,009 | 13,145 | 14,491 | 555 | 10,354 | 3,698,458 |
| 2003 Total | 1,952,714 | 113,697 | 567,303 | 2,647 | 763,733 | -8,535 | 271,512 | 9,528 | 13,808 | 14,424 | 534 | 11,187 | 3,721,159 |
| 2004 Total | 1,957,188 | 114,678 | 627,172 | 3,568 | 788,528 | -8,488 | 265,064 | 9,736 | 13,062 | 14,811 | 575 | 14,144 | 3,808,360 |
| 2005 Total | 1,992,054 | 116,482 | 683,829 | 3,777 | 781,986 | -6,558 | 267,040 | 10,570 | 13,031 | 14,692 | 550 | 17,811 | 3,902,192 |
| 2006 Total | 1,969,737 | 59,708 | 734,417 | 4,254 | 787,219 | -6,558 | 286,254 | 10,341 | 13,927 | 14,568 | 508 | 26,589 | 3,908,077 |
| 2007 Total | 1,998,390 | 61,306 | 814,752 | 4,042 | 806,425 | -6,896 | 245,843 | 10,711 | 14,294 | 14,637 | 612 | 34,450 | 4,005,343 |
| 2008 Total | 1,968,838 | 42,881 | 802,372 | 3,200 | 806,208 | -6,288 | 253,096 | 10,638 | 15,379 | 14,840 | 864 | 55,365 | 3,974,349 |
| 2009 Total | 1,741,123 | 35,811 | 841,006 | 3,058 | 798,855 | -4,627 | 271,506 | 10,738 | 15,954 | 15,009 | 891 | 73,886 | 3,809,837 |
| 2010 Total | 1,827,788 | 34,679 | 901,389 | 2,967 | 806,968 | -5,501 | 258,455 | 11,446 | 16,376 | 15,219 | 1,206 | 94,636 | 3,972,386 |
| 2011 Total | 1,717,891 | 28,202 | 926,290 | 2,939 | 790,204 | -6,421 | 317,531 | 10,733 | 15,989 | 15,316 | 1,727 | 120,121 | 3,948,186 |
| 2012 Total | 1,500,557 | 20,072 | 1,132,791 | 2,984 | 769,331 | -4,950 | 273,859 | 11,050 | 16,555 | 15,562 | 4,164 | 140,749 | 3,890,358 |
| 2013 Total | 1,567,722 | 24,510 | 1,028,949 | 4,322 | 789,016 | -4,681 | 265,058 | 12,302 | 16,918 | 15,775 | 8,724 | 167,742 | 3,903,715 |
| 2014 Total | 1,568,774 | 28,043 | 1,033,172 | 3,358 | 797,166 | -6,174 | 258,046 | 15,027 | 17,602 | 15,877 | 17,304 | 181,496 | 3,937,003 |
| 2015 January | 131,431 | 2,789 | 93,450 | 394 | 74,270 | -551 | 24,014 | 1,307 | 1,411 | 1,362 | 1,134 | 15,146 | 346,758 |
| February | 126,024 | 6,074 | 84,207 | 329 | 63,461 | -456 | 22,179 | 1,234 | 1,261 | 1,260 | 1,459 | 14,908 | 322,473 |
| March | 107,471 | 1,644 | 92,110 | 327 | 64,547 | -409 | 24,148 | 1,227 | 1,393 | 1,394 | 2,037 | 15,293 | 311,741 |
| April | 88,147 | 1,570 | 85,828 | 290 | 59,784 | -214 | 22,331 | 1,025 | 1,402 | 1,272 | 2,338 | 17,850 | 282,197 |
| May | 103,672 | 1,794 | 94,124 | 338 | 65,827 | -370 | 19,995 | 1,093 | 1,483 | 1,390 | 2,456 | 17,136 | 309,552 |
| June | 124,677 | 1,723 | 113,390 | 299 | 68,516 | -398 | 20,297 | 1,244 | 1,473 | 1,302 | 2,512 | 13,410 | 349,067 |
| July | 138,060 | 2,185 | 132,266 | 311 | 71,412 | -513 | 20,896 | 1,365 | 1,639 | 1,357 | 2,579 | 13,666 | 385,889 |
| August | 133,651 | 2,013 | 130,314 | 331 | 72,415 | -626 | 19,030 | 1,410 | 1,587 | 1,344 | 2,639 | 13,070 | 377,856 |
| September | 117,005 | 1,899 | 114,792 | 331 | 66,476 | -544 | 16,015 | 1,201 | 1,481 | 1,203 | 2,178 | 13,961 | 336,618 |
| October | 95,872 | 1,657 | 102,022 | 229 | 60,571 | -443 | 16,513 | 1,047 | 1,509 | 1,323 | 1,875 | 16,364 | 299,168 |
| November | 86,362 | 1,583 | 94,132 | 234 | 60,264 | -285 | 19,202 | 1,157 | 1,565 | 1,334 | 1,702 | 19,663 | 287,551 |
| December | 88,622 | 1,575 | 101,022 | 304 | 69,634 | -281 | 23,017 | 1,254 | 1,620 | 1,377 | 1,545 | 20,080 | 310,423 |
| Total | 1,340,993 | 26,505 | 1,237,656 | 3,715 | 797,178 | -5,091 | 247,636 | 14,563 | 17,823 | 15,918 | 24,456 | 190,547 | 3,919,294 |
| 2016 January | 112,632 | 2,163 | 101,394 | 370 | 72,525 | -312 | 25,285 | 1,235 | 1,603 | 1,471 | 1,491 | 18,513 | 339,004 |
| February | 91,856 | 2,013 | 90,441 | 341 | 65,638 | -399 | 24,014 | 1,200 | 1,423 | 1,372 | 2,395 | 20,184 | 301,047 |
| March | 71,255 | 1,651 | 95,643 | 373 | 66,149 | -384 | 26,873 | 1,148 | 1,461 | 1,460 | 2,664 | 21,744 | 290,624 |
| April | 71,260 | 1,716 | 91,696 | 330 | 62,365 | -452 | 25,339 | 859 | 1,501 | 1,340 | 2,903 | 20,551 | 280,010 |
| May | 80,966 | 1,779 | 102,698 | 296 | 66,576 | -321 | 25,226 | 953 | 1,629 | 1,476 | 3,547 | 18,776 | 304,263 |
| June | 115,375 | 1,817 | 123,467 | 365 | 67,175 | -497 | 22,791 | 1,139 | 1,558 | 1,364 | 3,545 | 16,301 | 355,036 |
| July | 135,589 | 2,172 | 143,001 | 345 | 70,349 | -784 | 21,140 | 1,289 | 1,595 | 1,424 | 4,024 | 17,578 | 398,363 |
| August | 134,907 | 2,209 | 146,199 | 346 | 71,526 | -902 | 19,266 | 1,315 | 1,610 | 1,444 | 3,886 | 13,548 | 396,003 |
| September | 113,529 | 1,799 | 117,270 | 369 | 65,448 | -715 | 16,217 | 1,160 | 1,502 | 1,451 | 3,624 | 16,415 | 338,670 |
| October | 98,633 | 1,429 | 94,516 | 246 | 60,733 | -561 | 17,166 | 920 | 1,474 | 1,489 | 3,145 | 20,362 | 300,141 |
| November | 86,365 | 1,723 | 86,158 | 361 | 65,179 | -607 | 18,744 | 973 | 1,498 | 1,507 | 2,660 | 19,324 | 284,484 |
| December | 118,054 | 1,855 | 87,834 | 327 | 71,662 | -753 | 22,411 | 1,235 | 1,643 | 1,620 | 2,273 | 22,969 | 331,793 |
| Total | 1,230,422 | 22,325 | 1,280,316 | 4,066 | 805,327 | -6,686 | 264,470 | 13,425 | 18,496 | 17,417 | 36,157 | 226,265 | 3,919,440 |
| 2017 January | 114,733 | 1,995 | 86,680 | 362 | 73,121 | -418 | 27,605 | 1,098 | 1,571 | 1,541 | 2,197 | 20,253 | 331,371 |

^a Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.

^b Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, waste oil, and, beginning in 2011, propane.

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

^d Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.

^e Pumped storage facility production minus energy used for pumping.

^f Through 1989, hydroelectric pumped storage is included in "Conventional Hydroelectric Power."

^g Wood and wood-derived fuels.

^h Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

ⁱ Electricity net generation from solar thermal and photovoltaic (PV) energy at utility-scale facilities. Does not include distributed (small-scale) solar photovoltaic

generation. See Table 10.6.

^j Includes batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

^k Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities and independent power producers.

NA=Not available.

Notes: • Data are for utility-scale facilities. See Note 1, "Coverage of Electricity Statistics," at end of section. • 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. • 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/#electricity> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Sources: See end of section.

Table 7.2c Electricity Net Generation: Commercial and Industrial Sectors
(Subset of Table 7.2a; Million Kilowatthours)

| | Commercial Sector ^a | | | | | Industrial Sector ^b | | | | | | | |
|--------------|--------------------------------|------------------------|--------------------------|--------------------|--------------------|--------------------------------|------------------------|--------------------------|--------------------------|----------------------------------|-------------------|--------------------|--------------------|
| | Coal ^c | Petroleum ^d | Natural Gas ^e | Biomass | Total ^g | Coal ^c | Petroleum ^d | Natural Gas ^e | Other Gases ^h | Hydroelectric Power ⁱ | Biomass | | Total ^k |
| | | | | Waste ^f | | | | | | | Wood ^j | Waste ^f | |
| 1950 Total | NA | NA | NA | NA | NA | NA | NA | NA | NA | 4,946 | NA | NA | 4,946 |
| 1955 Total | NA | NA | NA | NA | NA | NA | NA | NA | NA | 3,261 | NA | NA | 3,261 |
| 1960 Total | NA | NA | NA | NA | NA | NA | NA | NA | NA | 3,607 | NA | NA | 3,607 |
| 1965 Total | NA | NA | NA | NA | NA | NA | NA | NA | NA | 3,134 | NA | NA | 3,134 |
| 1970 Total | NA | NA | NA | NA | NA | NA | NA | NA | NA | 3,244 | NA | NA | 3,244 |
| 1975 Total | NA | NA | NA | NA | NA | NA | NA | NA | NA | 3,106 | NA | NA | 3,106 |
| 1980 Total | NA | NA | NA | NA | NA | NA | NA | NA | NA | 3,161 | NA | NA | 3,161 |
| 1985 Total | NA | NA | NA | NA | NA | NA | NA | NA | NA | 3,161 | NA | NA | 3,161 |
| 1990 Total | 796 | 589 | 3,272 | 812 | 5,837 | 21,107 | 7,008 | 60,007 | 9,641 | 2,975 | 25,379 | 949 | 130,830 |
| 1995 Total | 998 | 379 | 5,162 | 1,519 | 8,232 | 22,372 | 6,030 | 71,717 | 11,943 | 5,304 | 28,868 | 900 | 151,025 |
| 2000 Total | 1,097 | 432 | 4,262 | 1,985 | 7,903 | 22,056 | 5,597 | 78,798 | 11,927 | 4,135 | 28,652 | 839 | 156,673 |
| 2001 Total | 995 | 438 | 4,434 | 1,007 | 7,416 | 20,135 | 5,293 | 79,755 | 8,454 | 3,145 | 26,888 | 596 | 149,175 |
| 2002 Total | 992 | 431 | 4,310 | 1,053 | 7,415 | 21,525 | 4,403 | 79,013 | 9,493 | 3,825 | 29,643 | 846 | 152,580 |
| 2003 Total | 1,206 | 423 | 3,899 | 1,289 | 7,496 | 19,817 | 5,285 | 78,705 | 12,953 | 4,222 | 27,988 | 715 | 154,530 |
| 2004 Total | 1,340 | 499 | 3,969 | 1,562 | 8,270 | 19,773 | 5,967 | 78,959 | 11,684 | 3,248 | 28,367 | 797 | 153,925 |
| 2005 Total | 1,353 | 375 | 4,249 | 1,657 | 8,492 | 19,466 | 5,368 | 72,882 | 9,687 | 3,195 | 28,271 | 733 | 144,739 |
| 2006 Total | 1,310 | 235 | 4,355 | 1,599 | 8,371 | 19,464 | 4,223 | 77,669 | 9,923 | 2,899 | 28,400 | 572 | 148,254 |
| 2007 Total | 1,371 | 189 | 4,257 | 1,599 | 8,273 | 16,694 | 4,243 | 77,580 | 9,411 | 1,590 | 28,287 | 631 | 143,128 |
| 2008 Total | 1,261 | 142 | 4,188 | 1,534 | 7,926 | 15,703 | 3,219 | 76,421 | 8,507 | 1,676 | 26,641 | 821 | 137,113 |
| 2009 Total | 1,096 | 163 | 4,225 | 1,748 | 8,165 | 13,686 | 2,963 | 75,748 | 7,574 | 1,868 | 25,292 | 740 | 132,329 |
| 2010 Total | 1,111 | 124 | 4,725 | 1,672 | 8,592 | 18,441 | 2,258 | 81,583 | 8,343 | 1,668 | 25,706 | 869 | 144,082 |
| 2011 Total | 1,049 | 89 | 5,487 | 2,315 | 10,080 | 14,490 | 1,891 | 81,911 | 8,624 | 1,799 | 26,691 | 917 | 141,875 |
| 2012 Total | 883 | 196 | 6,603 | 2,319 | 11,301 | 12,603 | 2,922 | 86,500 | 8,913 | 2,353 | 26,725 | 948 | 146,107 |
| 2013 Total | 839 | 124 | 7,154 | 2,567 | 12,234 | 12,554 | 2,531 | 88,733 | 8,531 | 3,463 | 27,691 | 1,346 | 150,015 |
| 2014 Total | 595 | 255 | 7,227 | 2,681 | 12,520 | 12,341 | 1,934 | 86,209 | 8,664 | 1,282 | 27,239 | 1,367 | 144,083 |
| 2015 January | 56 | 24 | 564 | 209 | 981 | 964 | 161 | 7,674 | 852 | 121 | 2,404 | 105 | 12,717 |
| February | 59 | 73 | 499 | 183 | 932 | 894 | 174 | 6,609 | 696 | 105 | 2,132 | 80 | 11,071 |
| March | 52 | 12 | 560 | 213 | 977 | 965 | 123 | 6,753 | 764 | 130 | 2,226 | 106 | 11,475 |
| April | 38 | 9 | 513 | 216 | 931 | 804 | 149 | 6,465 | 690 | 138 | 2,218 | 112 | 11,005 |
| May | 32 | 11 | 583 | 221 | 1,013 | 881 | 135 | 6,809 | 761 | 127 | 2,239 | 95 | 11,522 |
| June | 45 | 10 | 662 | 222 | 1,098 | 951 | 128 | 7,426 | 819 | 114 | 2,251 | 89 | 12,244 |
| July | 44 | 12 | 769 | 242 | 1,238 | 995 | 107 | 8,084 | 925 | 115 | 2,434 | 108 | 13,292 |
| August | 39 | 12 | 760 | 234 | 1,206 | 980 | 108 | 8,010 | 864 | 90 | 2,377 | 101 | 13,054 |
| September | 33 | 8 | 716 | 230 | 1,145 | 947 | 127 | 7,528 | 879 | 77 | 2,245 | 94 | 12,359 |
| October | 34 | 7 | 643 | 218 | 1,049 | 853 | 107 | 7,340 | 678 | 114 | 2,201 | 116 | 11,894 |
| November | 35 | 6 | 583 | 222 | 992 | 830 | 121 | 7,521 | 668 | 133 | 2,259 | 115 | 12,110 |
| December | 41 | 7 | 617 | 226 | 1,033 | 832 | 115 | 8,137 | 806 | 145 | 2,331 | 122 | 12,970 |
| Total | 509 | 191 | 7,471 | 2,637 | 12,595 | 10,896 | 1,552 | 88,355 | 9,401 | 1,410 | 27,318 | 1,243 | 145,712 |
| 2016 January | 43 | 12 | 648 | 216 | 1,057 | 876 | 122 | 7,746 | 893 | 136 | 2,373 | 112 | 12,684 |
| February | 47 | 14 | 550 | 188 | 944 | 817 | 113 | 7,198 | 828 | 131 | 2,187 | 101 | 11,758 |
| March | 44 | 6 | 595 | 230 | 1,043 | 839 | 108 | 7,551 | 868 | 147 | 2,230 | 119 | 12,284 |
| April | 29 | 8 | 615 | 206 | 1,022 | 713 | 106 | 7,250 | 819 | 131 | 2,045 | 112 | 11,611 |
| May | 26 | 8 | 650 | 202 | 1,055 | 736 | 138 | 7,554 | 681 | 130 | 2,219 | 98 | 12,018 |
| June | 28 | 7 | 694 | 181 | 1,079 | 824 | 122 | 7,723 | 720 | 105 | 2,266 | 90 | 12,303 |
| July | 30 | 10 | 763 | 209 | 1,204 | 884 | 136 | 8,095 | 721 | 101 | 2,356 | 105 | 12,883 |
| August | 33 | 14 | 781 | 203 | 1,212 | 870 | 137 | 8,137 | 756 | 87 | 2,323 | 94 | 12,898 |
| September | 34 | 7 | 675 | 182 | 1,065 | 718 | 118 | 7,695 | 681 | 60 | 2,201 | 78 | 12,034 |
| October | 36 | 8 | 583 | 191 | 969 | 669 | 115 | 7,526 | 646 | 80 | 2,181 | 87 | 11,718 |
| November | 39 | 8 | 591 | 184 | 961 | 595 | 109 | 7,781 | 641 | 68 | 2,281 | 91 | 11,982 |
| December | 45 | 11 | 605 | 189 | 981 | 691 | 145 | 7,973 | 680 | 123 | 2,343 | 101 | 12,464 |
| Total | 436 | 112 | 7,750 | 2,382 | 12,593 | 9,231 | 1,469 | 92,227 | 8,934 | 1,300 | 27,007 | 1,190 | 146,637 |
| 2017 January | 40 | 18 | 659 | 206 | 1,054 | 784 | 110 | 7,902 | 776 | 132 | 2,349 | 100 | 12,548 |

^a Commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

^b Industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

^c Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal symfuel.

^d Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, waste oil, and, beginning in 2011, propane.

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

^f Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

^g Includes a small amount of conventional hydroelectric power, other gases, solar photovoltaic (PV) energy, wind, wood, and other, which are not separately displayed. Does not include distributed (small-scale) solar photovoltaic generation shown on Table 10.6.

^h Blast furnace gas, and other manufactured and waste gases derived from

fossil fuels. Through 2010, also includes propane gas.

ⁱ Conventional hydroelectric power.

^j Wood and wood-derived fuels.

^k Includes photovoltaic (PV) energy, wind, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels). Does not include distributed (small-scale) solar photovoltaic generation shown on Table 10.6.

NA=Not available.

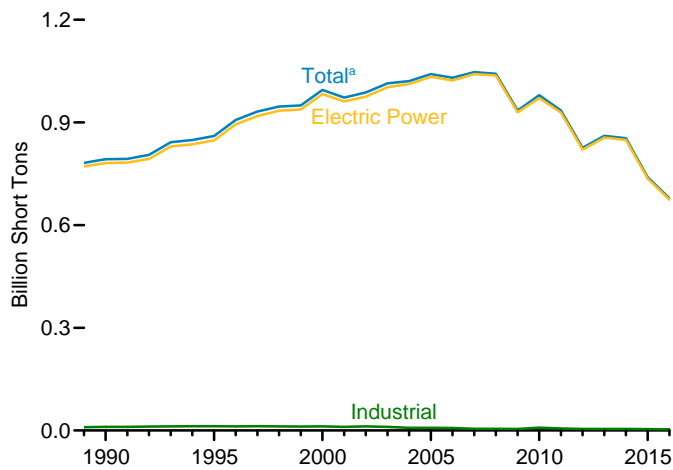
Notes: • Data are for utility-scale facilities. See Note 1, "Coverage of Electricity Statistics," at end of section. • See Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

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

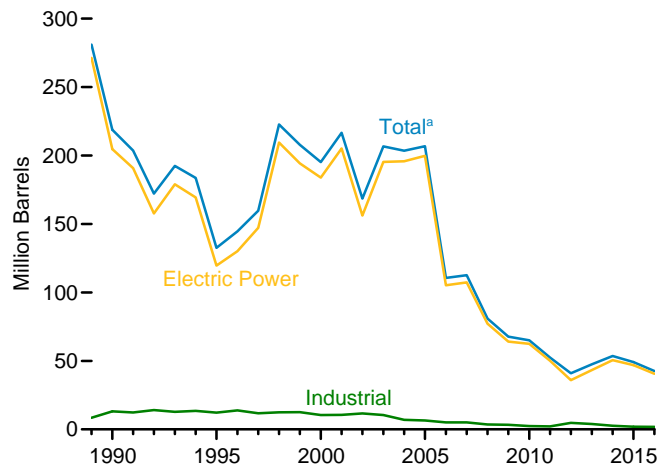
Sources: See end of section.

Figure 7.3 Consumption of Selected Combustible Fuels for Electricity Generation

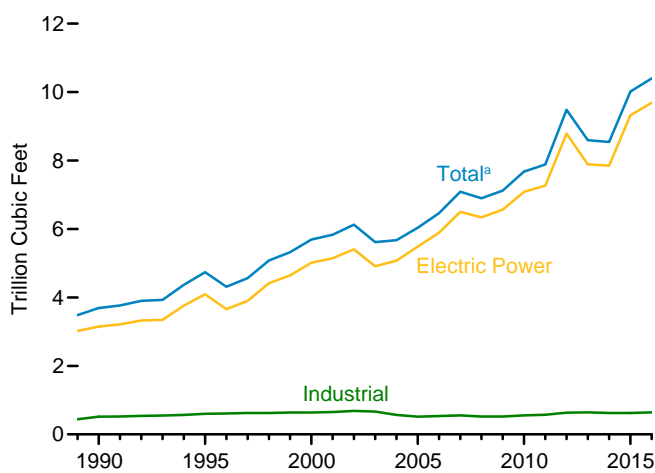
Coal by Sector, 1989–2016



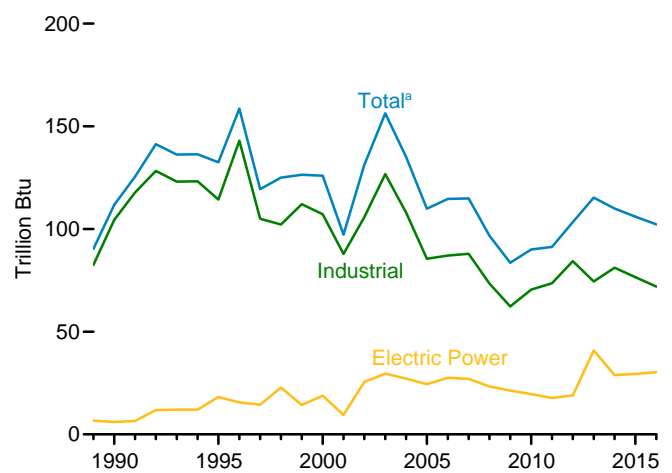
Petroleum by Sector, 1989–2016



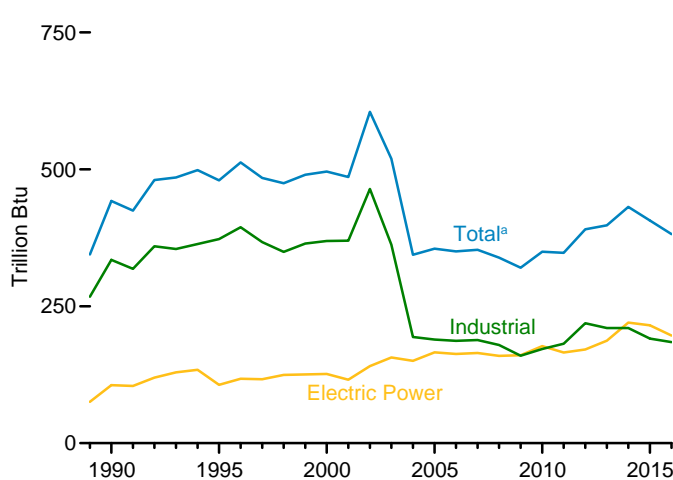
Natural Gas by Sector, 1989–2016



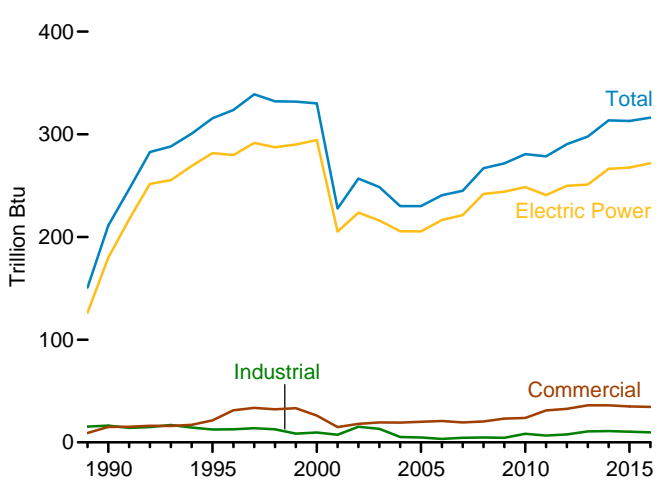
Other Gases^b by Sector, 1989–2016



Wood by Sector, 1989–2016



Waste by Sector, 1989–2016



^a Includes commercial sector.

^b Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.

Note: Data are for utility-scale facilities.

Web Page: <http://www.eia.gov/totalenergy/data/monthly/#electricity>.

Sources: Tables 7.3a–7.3c.

Table 7.3a Consumption of Combustible Fuels for Electricity Generation: Total (All Sectors) (Sum of Tables 7.3b and 7.3c)

| | Coal ^a Thousand Short Tons | Petroleum | | | | | Natural Gas ^f Billion Cubic Feet | Other Gases ^g | Biomass | | Other ⁱ |
|-------------------------|--|--|--|--|--|--|--|--------------------------|-------------------|--------------------|--------------------|
| | | Distillate Fuel Oil ^b Thousand Barrels | Residual Fuel Oil ^c Thousand Barrels | Other Liquids ^d Thousand Barrels | Petroleum Coke ^e Thousand Short Tons | Total ^e Thousand Barrels | | | Wood ^h | Waste ⁱ | |
| | | | | | | | | | | | |
| 1950 Total | 91,871 | 5,423 | 69,998 | NA | NA | 75,421 | 629 | NA | 5 | NA | NA |
| 1955 Total | 143,759 | 5,412 | 69,862 | NA | NA | 75,274 | 1,153 | NA | 3 | NA | NA |
| 1960 Total | 176,685 | 3,824 | 84,371 | NA | NA | 88,195 | 1,725 | NA | 2 | NA | NA |
| 1965 Total | 244,788 | 4,928 | 110,274 | NA | NA | 115,203 | 2,321 | NA | 3 | NA | NA |
| 1970 Total | 320,182 | 24,123 | 311,381 | NA | 636 | 338,686 | 3,932 | NA | 1 | 2 | NA |
| 1975 Total | 405,962 | 38,907 | 467,221 | NA | 70 | 506,479 | 3,158 | NA | (s) | 2 | NA |
| 1980 Total | 569,274 | 29,051 | 391,163 | NA | 179 | 421,110 | 3,682 | NA | 3 | 2 | NA |
| 1985 Total | 693,841 | 14,635 | 158,779 | NA | 231 | 174,571 | 3,044 | NA | 8 | 7 | NA |
| 1990 Total ^k | 792,457 | 18,143 | 190,652 | 437 | 1,914 | 218,800 | 3,692 | 112 | 442 | 211 | 36 |
| 1995 Total | 860,594 | 19,615 | 95,507 | 680 | 3,355 | 132,578 | 4,738 | 133 | 480 | 316 | 42 |
| 2000 Total | 994,933 | 31,675 | 143,381 | 1,450 | 3,744 | 195,228 | 5,691 | 126 | 496 | 330 | 46 |
| 2001 Total | 972,691 | 31,150 | 165,312 | 855 | 3,871 | 216,672 | 5,832 | 97 | 486 | 228 | 160 |
| 2002 Total | 987,583 | 23,286 | 109,235 | 1,894 | 6,836 | 168,597 | 6,126 | 131 | 605 | 257 | 191 |
| 2003 Total | 1,014,058 | 29,672 | 142,518 | 2,947 | 6,303 | 206,653 | 5,616 | 156 | 519 | 249 | 193 |
| 2004 Total | 1,020,523 | 20,163 | 142,088 | 2,856 | 7,677 | 203,494 | 5,675 | 135 | 344 | 230 | 183 |
| 2005 Total | 1,041,448 | 20,651 | 141,518 | 2,968 | 8,330 | 206,785 | 6,036 | 110 | 355 | 230 | 173 |
| 2006 Total | 1,030,556 | 13,174 | 58,473 | 2,174 | 7,363 | 110,634 | 6,462 | 115 | 350 | 241 | 172 |
| 2007 Total | 1,046,795 | 15,683 | 63,833 | 2,917 | 6,036 | 112,615 | 7,089 | 115 | 353 | 245 | 168 |
| 2008 Total | 1,042,335 | 12,832 | 38,191 | 2,822 | 5,417 | 80,932 | 6,896 | 97 | 339 | 267 | 172 |
| 2009 Total | 934,683 | 12,658 | 28,576 | 2,328 | 4,821 | 67,668 | 7,121 | 84 | 320 | 272 | 170 |
| 2010 Total | 979,684 | 14,050 | 23,997 | 2,056 | 4,994 | 65,071 | 7,680 | 90 | 350 | 281 | 184 |
| 2011 Total | 934,938 | 11,231 | 14,251 | 1,844 | 5,012 | 52,387 | 7,884 | 91 | 348 | 279 | 205 |
| 2012 Total | 825,734 | 9,285 | 11,755 | 1,565 | 3,675 | 40,977 | 9,485 | 103 | 390 | 290 | 204 |
| 2013 Total | 860,729 | 9,784 | 11,766 | 1,681 | 4,852 | 47,492 | 8,596 | 115 | 398 | 298 | 200 |
| 2014 Total | 853,634 | 14,465 | 14,704 | 2,363 | 4,412 | 53,593 | 8,544 | 110 | 431 | 314 | 200 |
| 2015 January | 71,384 | 1,294 | 1,718 | 281 | 402 | 5,301 | 745 | 10 | 36 | 25 | 17 |
| February | 67,136 | 3,732 | 4,102 | 755 | 413 | 10,655 | 676 | 8 | 33 | 22 | 15 |
| March | 58,367 | 851 | 805 | 129 | 275 | 3,160 | 736 | 8 | 34 | 25 | 16 |
| April | 48,543 | 638 | 762 | 122 | 300 | 3,020 | 692 | 8 | 31 | 25 | 16 |
| May | 57,153 | 841 | 714 | 143 | 339 | 3,394 | 766 | 9 | 32 | 26 | 17 |
| June | 68,982 | 785 | 823 | 137 | 306 | 3,277 | 922 | 9 | 34 | 26 | 17 |
| July | 76,570 | 741 | 1,091 | 163 | 409 | 4,039 | 1,084 | 10 | 37 | 29 | 19 |
| August | 73,810 | 706 | 961 | 134 | 388 | 3,740 | 1,065 | 10 | 37 | 28 | 18 |
| September | 64,823 | 643 | 830 | 183 | 376 | 3,538 | 930 | 9 | 34 | 26 | 17 |
| October | 53,659 | 636 | 759 | 146 | 300 | 3,041 | 825 | 7 | 31 | 26 | 17 |
| November | 48,943 | 804 | 840 | 76 | 260 | 3,019 | 767 | 7 | 33 | 27 | 17 |
| December | 50,224 | 768 | 718 | 94 | 276 | 2,961 | 807 | 9 | 35 | 28 | 18 |
| Total | 739,594 | 12,438 | 14,124 | 2,363 | 4,044 | 49,145 | 10,017 | 106 | 407 | 313 | 204 |
| 2016 January | 62,048 | 1,190 | 979 | 160 | 341 | 4,037 | 803 | 10 | 34 | 27 | 16 |
| February | 50,567 | 837 | 1,091 | 183 | 329 | 3,753 | 717 | 9 | 33 | 25 | 14 |
| March | 39,850 | 659 | 593 | 114 | 366 | 3,197 | 775 | 10 | 33 | 26 | 15 |
| April | 38,972 | 617 | 610 | 91 | 390 | 3,267 | 754 | 9 | 27 | 27 | 16 |
| May | 45,036 | 799 | 658 | 108 | 371 | 3,421 | 839 | 8 | 29 | 27 | 17 |
| June | 63,326 | 694 | 772 | 111 | 382 | 3,488 | 1,007 | 8 | 32 | 26 | 17 |
| July | 74,241 | 812 | 1,255 | 138 | 403 | 4,220 | 1,179 | 9 | 34 | 27 | 17 |
| August | 73,868 | 795 | 1,196 | 205 | 422 | 4,304 | 1,191 | 9 | 35 | 28 | 17 |
| September | 62,428 | 631 | 781 | 120 | 383 | 3,450 | 951 | 8 | 32 | 25 | 16 |
| October | 54,634 | 623 | 846 | 97 | 246 | 2,798 | 776 | 7 | 29 | 27 | 16 |
| November | 48,126 | 787 | 651 | 122 | 304 | 3,079 | 701 | 8 | 30 | 25 | 16 |
| December | 64,883 | 905 | 807 | 187 | 337 | 3,586 | 706 | 8 | 34 | 27 | 16 |
| Total | 677,981 | 9,349 | 10,238 | 1,636 | 4,275 | 42,600 | 10,400 | 102 | 382 | 316 | 193 |
| 2017 January | 63,540 | 1,017 | 792 | 171 | 362 | 3,789 | 677 | 9 | 32 | 27 | 16 |

^a Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.

^b Fuel oil nos. 1, 2, and 4. For 1949–1979, data are for gas turbine and internal combustion plant use of petroleum. For 1980–2000, electric utility data also include small amounts of kerosene and jet fuel.

^c Fuel oil nos. 5 and 6. For 1949–1979, data are for steam plant use of petroleum. For 1980–2000, electric utility data also include a small amount of fuel oil no. 4.

^d Jet fuel, kerosene, other petroleum liquids, waste oil, and, beginning in 2011, propane.

^e Petroleum coke is converted from short tons to barrels by multiplying by 5.

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

^g Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.

^h Wood and wood-derived fuels.

ⁱ Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and

tire-derived fuels).

^j Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

^k Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities, independent power producers, commercial plants, and industrial plants.

NA=Not available. (s)=Less than 0.5 trillion Btu.

Notes: • Data are for utility-scale facilities. See Note 1, "Coverage of Electricity Statistics," at end of section. • Data are for fuels consumed to produce electricity. Data also include fuels consumed to produce useful thermal output at a small number of electric utility combined-heat-and-power (CHP) plants. • 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/#electricity> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Sources: See "Table 7.3b Sources" at end of section and sources for Table 7.3c.

Table 7.3b Consumption of Combustible Fuels for Electricity Generation: Electric Power Sector (Subset of Table 7.3a)

| | Coal ^a Thousand Short Tons | Petroleum | | | | | Natural Gas ^f Billion Cubic Feet | Other Gases ^g | Biomass | | Other ⁱ |
|-------------------------|--|--|--|----------------------------|--|--|--|--------------------------|-------------------|--------------------|--------------------|
| | | Distillate Fuel Oil ^b Thousand Barrels | Residual Fuel Oil ^c Thousand Barrels | Other Liquids ^d | Petroleum Coke ^e Thousand Short Tons | Total ^e Thousand Barrels | | | Wood ^h | Waste ⁱ | |
| | | | | | | | | | | | |
| 1950 Total | 91,871 | 5,423 | 69,998 | NA | NA | 75,421 | 629 | NA | 5 | NA | NA |
| 1955 Total | 143,759 | 5,412 | 69,862 | NA | NA | 75,274 | 1,153 | NA | 3 | NA | NA |
| 1960 Total | 176,685 | 3,824 | 84,371 | NA | NA | 88,195 | 1,725 | NA | 2 | NA | NA |
| 1965 Total | 244,788 | 4,928 | 110,274 | NA | NA | 115,203 | 2,321 | NA | 3 | NA | NA |
| 1970 Total | 320,182 | 24,123 | 311,381 | NA | 636 | 338,686 | 3,932 | NA | 1 | 2 | NA |
| 1975 Total | 405,962 | 38,907 | 467,221 | NA | 70 | 506,479 | 3,158 | NA | (s) | 2 | NA |
| 1980 Total | 569,274 | 29,051 | 391,163 | NA | 179 | 421,110 | 3,682 | NA | 3 | 2 | NA |
| 1985 Total | 693,841 | 14,635 | 158,779 | NA | 231 | 174,571 | 3,044 | NA | 8 | 7 | NA |
| 1990 Total ^k | 781,301 | 16,394 | 183,285 | 25 | 1,008 | 204,745 | 3,147 | 6 | 106 | 180 | (s) |
| 1995 Total | 847,854 | 18,066 | 88,895 | 441 | 2,452 | 119,663 | 4,094 | 18 | 106 | 282 | 2 |
| 2000 Total | 982,713 | 29,722 | 138,047 | 403 | 3,155 | 183,946 | 5,014 | 19 | 126 | 294 | 1 |
| 2001 Total | 961,523 | 29,056 | 159,150 | 374 | 3,308 | 205,119 | 5,142 | 9 | 116 | 205 | 109 |
| 2002 Total | 975,251 | 21,810 | 104,577 | 1,243 | 5,705 | 156,154 | 5,408 | 25 | 141 | 224 | 137 |
| 2003 Total | 1,003,036 | 27,441 | 137,361 | 1,937 | 5,719 | 195,336 | 4,909 | 30 | 156 | 216 | 136 |
| 2004 Total | 1,012,459 | 18,793 | 138,831 | 2,511 | 7,135 | 195,809 | 5,075 | 27 | 150 | 206 | 131 |
| 2005 Total | 1,033,567 | 19,450 | 138,337 | 2,591 | 7,877 | 199,760 | 5,485 | 24 | 166 | 205 | 116 |
| 2006 Total | 1,022,802 | 12,578 | 56,347 | 1,783 | 6,905 | 105,235 | 5,891 | 28 | 163 | 216 | 117 |
| 2007 Total | 1,041,346 | 15,135 | 62,072 | 2,496 | 5,523 | 107,316 | 6,502 | 27 | 165 | 221 | 117 |
| 2008 Total | 1,036,891 | 12,318 | 37,222 | 2,608 | 5,000 | 77,149 | 6,342 | 23 | 159 | 242 | 122 |
| 2009 Total | 929,692 | 11,848 | 27,768 | 2,110 | 4,485 | 64,151 | 6,567 | 21 | 160 | 244 | 115 |
| 2010 Total | 971,245 | 13,677 | 23,560 | 1,848 | 4,679 | 62,477 | 7,085 | 20 | 177 | 249 | 116 |
| 2011 Total | 928,857 | 10,961 | 13,861 | 1,655 | 4,726 | 50,105 | 7,265 | 18 | 166 | 241 | 133 |
| 2012 Total | 820,762 | 9,000 | 11,292 | 1,339 | 2,861 | 35,937 | 8,788 | 19 | 171 | 250 | 132 |
| 2013 Total | 855,546 | 9,511 | 11,322 | 1,488 | 4,189 | 43,265 | 7,888 | 41 | 187 | 251 | 130 |
| 2014 Total | 848,803 | 14,052 | 14,132 | 2,157 | 4,039 | 50,537 | 7,849 | 29 | 220 | 266 | 127 |
| 2015 January | 71,028 | 1,253 | 1,685 | 258 | 369 | 5,040 | 686 | 3 | 19 | 21 | 10 |
| February | 66,799 | 3,610 | 4,052 | 730 | 388 | 10,333 | 625 | 2 | 18 | 19 | 10 |
| March | 57,999 | 824 | 778 | 113 | 255 | 2,988 | 684 | 2 | 18 | 21 | 10 |
| April | 48,230 | 615 | 742 | 96 | 271 | 2,811 | 642 | 2 | 16 | 21 | 10 |
| May | 56,820 | 818 | 699 | 110 | 320 | 3,225 | 712 | 3 | 17 | 22 | 11 |
| June | 68,609 | 763 | 807 | 106 | 288 | 3,115 | 863 | 2 | 18 | 22 | 11 |
| July | 76,179 | 715 | 1,077 | 142 | 392 | 3,894 | 1,019 | 2 | 20 | 25 | 12 |
| August | 73,431 | 682 | 947 | 112 | 369 | 3,589 | 1,001 | 3 | 20 | 24 | 11 |
| September | 64,452 | 624 | 822 | 162 | 355 | 3,383 | 870 | 3 | 17 | 22 | 11 |
| October | 53,331 | 616 | 749 | 123 | 284 | 2,907 | 768 | 2 | 15 | 23 | 11 |
| November | 48,636 | 787 | 829 | 57 | 240 | 2,872 | 709 | 2 | 17 | 23 | 11 |
| December | 49,919 | 749 | 706 | 76 | 258 | 2,821 | 744 | 3 | 19 | 24 | 11 |
| Total | 735,433 | 12,056 | 13,893 | 2,086 | 3,789 | 46,978 | 9,322 | 29 | 215 | 268 | 127 |
| 2016 January | 61,716 | 1,162 | 962 | 146 | 319 | 3,863 | 744 | 3 | 18 | 23 | 11 |
| February | 50,256 | 811 | 1,076 | 163 | 311 | 3,605 | 662 | 3 | 18 | 21 | 10 |
| March | 39,531 | 643 | 583 | 103 | 346 | 3,059 | 717 | 3 | 17 | 21 | 10 |
| April | 38,708 | 596 | 599 | 82 | 369 | 3,122 | 698 | 2 | 13 | 23 | 11 |
| May | 44,767 | 777 | 649 | 72 | 348 | 3,239 | 781 | 2 | 14 | 23 | 11 |
| June | 63,007 | 674 | 762 | 88 | 360 | 3,326 | 946 | 3 | 17 | 23 | 11 |
| July | 73,902 | 786 | 1,244 | 108 | 381 | 4,043 | 1,116 | 3 | 18 | 23 | 11 |
| August | 73,526 | 763 | 1,185 | 179 | 399 | 4,123 | 1,127 | 3 | 19 | 24 | 11 |
| September | 62,149 | 610 | 774 | 97 | 361 | 3,287 | 891 | 3 | 17 | 22 | 10 |
| October | 54,376 | 598 | 836 | 58 | 233 | 2,658 | 719 | 2 | 14 | 23 | 10 |
| November | 47,898 | 761 | 641 | 101 | 286 | 2,934 | 641 | 2 | 14 | 22 | 10 |
| December | 64,620 | 876 | 795 | 148 | 317 | 3,402 | 645 | 2 | 18 | 24 | 11 |
| Total | 674,457 | 9,057 | 10,105 | 1,346 | 4,031 | 40,661 | 9,688 | 30 | 196 | 272 | 127 |
| 2017 January | 63,225 | 977 | 778 | 149 | 345 | 3,629 | 614 | 3 | 16 | 23 | 11 |

^a Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.

^b Fuel oil nos. 1, 2, and 4. For 1949–1979, data are for gas turbine and internal combustion plant use of petroleum. For 1980–2000, electric utility data also include small amounts of kerosene and jet fuel.

^c Fuel oil nos. 5 and 6. For 1949–1979, data are for steam plant use of petroleum. For 1980–2000, electric utility data also include a small amount of fuel oil no. 4.

^d Jet fuel, kerosene, other petroleum liquids, waste oil, and, beginning in 2011, propane.

^e Petroleum coke is converted from short tons to barrels by multiplying by 5.

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

^g Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.

^h Wood and wood-derived fuels.

ⁱ Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

^j Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

^k Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities and independent power producers.

NA=Not available. (s)=Less than 0.5 trillion Btu.

Notes: • Data are for utility-scale facilities. See Note 1, "Coverage of Electricity Statistics," at end of section. • Data are for fuels consumed to produce electricity. Data also include fuels consumed to produce useful thermal output at a small number of electric utility combined-heat-and-power (CHP) plants. • 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. • 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/#electricity> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Sources: See end of section.

Table 7.3c Consumption of Selected Combustible Fuels for Electricity Generation: Commercial and Industrial Sectors (Subset of Table 7.3a)

| | Commercial Sector ^a | | | | Industrial Sector ^b | | | | | | |
|---------------------------|--------------------------------|------------------------|--------------------------|--------------------|--------------------------------|------------------------|--------------------------|--------------------------|-------------------|--------------------|--------------------|
| | Coal ^c | Petroleum ^d | Natural Gas ^e | Biomass | Coal ^c | Petroleum ^d | Natural Gas ^e | Other Gases ^g | Biomass | | Other ⁱ |
| | | | | Waste ^f | | | | | Wood ^h | Waste ^f | |
| | Thousand Short Tons | Thousand Barrels | Billion Cubic Feet | Trillion Btu | Thousand Short Tons | Thousand Barrels | Billion Cubic Feet | Trillion Btu | | | |
| 1990 Total | 417 | 953 | 28 | 15 | 10,740 | 13,103 | 517 | 104 | 335 | 16 | 36 |
| 1995 Total | 569 | 649 | 43 | 21 | 12,171 | 12,265 | 601 | 114 | 373 | 13 | 40 |
| 2000 Total | 514 | 823 | 37 | 26 | 11,706 | 10,459 | 640 | 107 | 369 | 10 | 45 |
| 2001 Total | 532 | 1,023 | 36 | 15 | 10,636 | 10,530 | 654 | 88 | 370 | 7 | 44 |
| 2002 Total | 477 | 834 | 33 | 18 | 11,855 | 11,608 | 685 | 106 | 464 | 15 | 43 |
| 2003 Total | 582 | 894 | 38 | 19 | 10,440 | 10,424 | 668 | 127 | 362 | 13 | 46 |
| 2004 Total | 377 | 766 | 33 | 19 | 7,687 | 6,919 | 566 | 108 | 194 | 5 | 41 |
| 2005 Total | 377 | 585 | 34 | 20 | 7,504 | 6,440 | 518 | 85 | 189 | 5 | 46 |
| 2006 Total | 347 | 333 | 35 | 21 | 7,408 | 5,066 | 536 | 87 | 187 | 3 | 45 |
| 2007 Total | 361 | 258 | 34 | 19 | 5,089 | 5,041 | 554 | 88 | 188 | 4 | 41 |
| 2008 Total | 369 | 166 | 33 | 20 | 5,075 | 3,617 | 520 | 73 | 179 | 5 | 39 |
| 2009 Total | 317 | 190 | 34 | 23 | 4,674 | 3,328 | 520 | 62 | 160 | 4 | 42 |
| 2010 Total | 314 | 172 | 39 | 24 | 8,125 | 2,422 | 555 | 70 | 172 | 8 | 55 |
| 2011 Total | 347 | 137 | 47 | 31 | 5,735 | 2,145 | 572 | 74 | 182 | 7 | 57 |
| 2012 Total | 307 | 279 | 63 | 33 | 4,665 | 4,761 | 633 | 84 | 219 | 8 | 54 |
| 2013 Total | 513 | 335 | 67 | 36 | 4,670 | 3,892 | 642 | 74 | 210 | 11 | 50 |
| 2014 Total | 202 | 462 | 72 | 36 | 4,629 | 2,594 | 623 | 81 | 210 | 11 | 54 |
| 2015 January | 18 | 34 | 5 | 3 | 338 | 227 | 54 | 7 | 17 | 1 | 5 |
| February | 19 | 95 | 5 | 3 | 318 | 228 | 46 | 6 | 15 | 1 | 4 |
| March | 17 | 19 | 5 | 3 | 351 | 153 | 48 | 6 | 15 | 1 | 4 |
| April | 12 | 15 | 5 | 3 | 302 | 194 | 45 | 6 | 15 | 1 | 4 |
| May | 10 | 15 | 6 | 3 | 323 | 154 | 49 | 6 | 16 | 1 | 5 |
| June | 14 | 14 | 6 | 3 | 359 | 148 | 53 | 7 | 16 | 1 | 5 |
| July | 14 | 16 | 7 | 3 | 376 | 129 | 57 | 8 | 17 | 1 | 6 |
| August | 12 | 18 | 7 | 3 | 368 | 133 | 57 | 7 | 17 | 1 | 5 |
| September | 10 | 9 | 7 | 3 | 360 | 146 | 54 | 7 | 16 | 1 | 5 |
| October | 11 | 8 | 6 | 3 | 317 | 127 | 51 | 5 | 16 | 1 | 5 |
| November | 12 | 8 | 5 | 3 | 295 | 139 | 53 | 5 | 16 | 1 | 5 |
| December | 14 | 9 | 6 | 3 | 292 | 131 | 57 | 6 | 16 | 1 | 5 |
| Total | 163 | 260 | 70 | 35 | 3,999 | 1,907 | 625 | 77 | 191 | 10 | 58 |
| 2016 January | 14 | 14 | 6 | 3 | 319 | 160 | 53 | 7 | 16 | 1 | 4 |
| February | 15 | 15 | 5 | 3 | 296 | 133 | 50 | 7 | 15 | 1 | 3 |
| March | 14 | 8 | 5 | 3 | 304 | 131 | 52 | 7 | 15 | 1 | 4 |
| April | 11 | 10 | 5 | 3 | 254 | 135 | 50 | 7 | 14 | 1 | 4 |
| May | 9 | 11 | 6 | 3 | 260 | 171 | 53 | 5 | 15 | 1 | 4 |
| June | 10 | 9 | 6 | 3 | 310 | 153 | 54 | 6 | 16 | 1 | 4 |
| July | 11 | 11 | 7 | 3 | 328 | 165 | 57 | 6 | 16 | 1 | 4 |
| August | 12 | 15 | 7 | 3 | 330 | 166 | 57 | 6 | 16 | 1 | 4 |
| September | 12 | 10 | 6 | 3 | 267 | 153 | 54 | 6 | 15 | 1 | 4 |
| October | 13 | 11 | 5 | 3 | 246 | 129 | 52 | 5 | 15 | 1 | 4 |
| November | 13 | 11 | 5 | 3 | 215 | 134 | 55 | 5 | 16 | 1 | 4 |
| December | 15 | 14 | 6 | 3 | 249 | 169 | 56 | 6 | 16 | 1 | 4 |
| Total | 148 | 138 | 69 | 35 | 3,376 | 1,800 | 644 | 72 | 185 | 10 | 48 |
| 2017 January | 16 | 30 | 6 | 3 | 300 | 130 | 57 | 6 | 16 | 1 | 4 |

^a Commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

^b Industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

^c Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal syngas.

^d Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, waste oil, and, beginning in 2011, propane.

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

^f Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

^g Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.

^h Wood and wood-derived fuels.

ⁱ Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous

technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

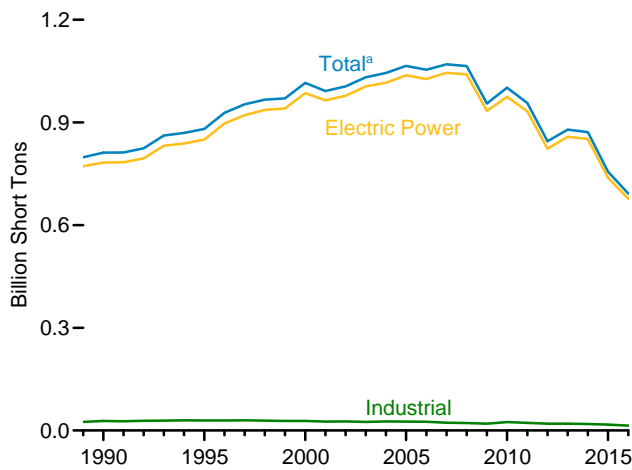
Notes: • Data are for utility-scale facilities. See Note 1, "Coverage of Electricity Statistics," at end of section. • See Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of section. • Data are for fuels consumed to produce electricity. Through 1988, data are not available. • 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/#electricity> (Excel and CSV files) for all available annual and monthly data beginning in 1989.

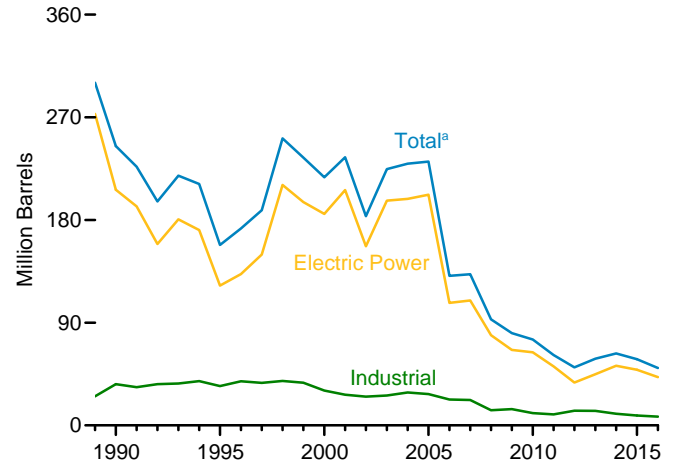
Sources: • **1989–1997:** U.S. Energy Information Administration (EIA), Form EIA-867, "Annual Nonutility Power Producer Report." • **1998–2000:** EIA, Form EIA-860B, "Annual Electric Generator Report—Nonutility." • **2001–2003:** EIA, Form EIA-906, "Power Plant Report." • **2004–2007:** EIA, Form EIA-906, "Power Plant Report," and Form EIA-920, "Combined Heat and Power Plant Report." • **2008 forward:** EIA, Form EIA-923, "Power Plant Operations Report."

Figure 7.4 Consumption of Selected Combustible Fuels for Electricity Generation and Useful Thermal Output

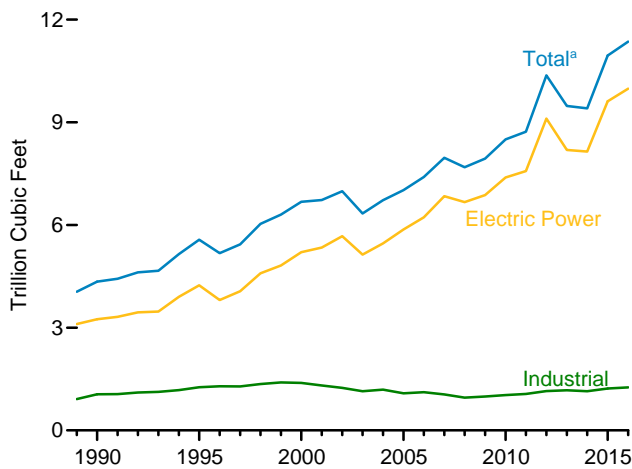
Coal by Sector, 1989–2016



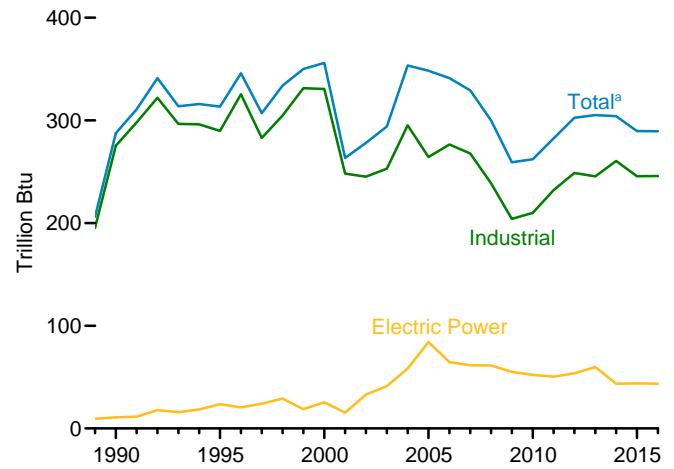
Petroleum by Sector, 1989–2016



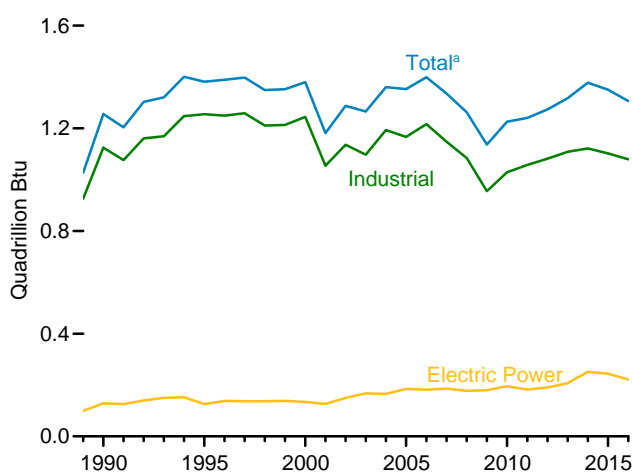
Natural Gas by Sector, 1989–2016



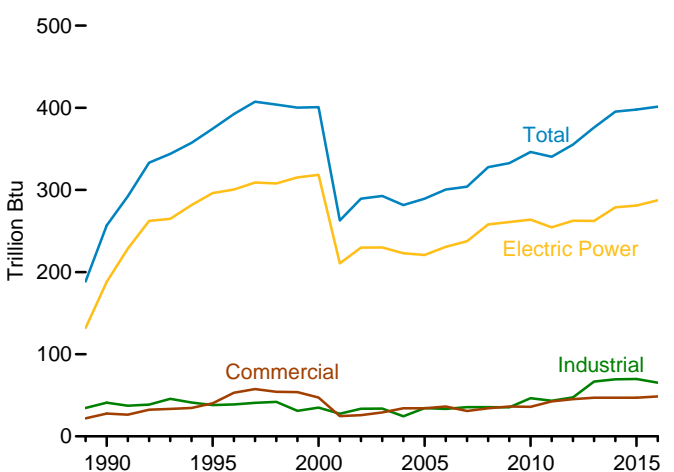
Other Gases^b by Sector, 1989–2016



Wood by Sector, 1989–2016



Waste by Sector, 1989–2016



^a Includes commercial sector.

^b Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.

Note: Data are for utility-scale facilities.

Web Page: <http://www.eia.gov/totalenergy/data/monthly/#electricity>.

Sources: Tables 7.4a–7.4c.

Table 7.4a Consumption of Combustible Fuels for Electricity Generation and Useful Thermal Output: Total (All Sectors) (Sum of Tables 7.4b and 7.4c)

| | Coal ^a | Petroleum | | | | | Natural Gas ^f | Other Gases ^g | Biomass | | Other ^j |
|-------------------------|-------------------|----------------------------------|--------------------------------|----------------------------|-----------------------------|--------------------|--------------------------|--------------------------|-------------------|--------------------|--------------------|
| | | Distillate Fuel Oil ^b | Residual Fuel Oil ^c | Other Liquids ^d | Petroleum Coke ^e | Total ^e | | | Wood ^h | Waste ⁱ | |
| | | | | | | | | | | | |
| 1950 Total | 91,871 | 5,423 | 69,998 | NA | NA | 75,421 | 629 | NA | 5 | NA | NA |
| 1955 Total | 143,759 | 5,412 | 69,862 | NA | NA | 75,274 | 1,153 | NA | 3 | NA | NA |
| 1960 Total | 176,685 | 3,824 | 84,371 | NA | NA | 88,195 | 1,725 | NA | 2 | NA | NA |
| 1965 Total | 244,788 | 4,928 | 110,274 | NA | NA | 115,203 | 2,321 | NA | 3 | NA | NA |
| 1970 Total | 320,182 | 24,123 | 311,381 | NA | 636 | 338,686 | 3,932 | NA | 1 | 2 | NA |
| 1975 Total | 405,962 | 38,907 | 467,221 | NA | 70 | 506,479 | 3,158 | NA | (s) | 2 | NA |
| 1980 Total | 569,274 | 29,051 | 391,163 | NA | 179 | 421,110 | 3,682 | NA | 3 | 2 | NA |
| 1985 Total | 693,841 | 14,635 | 158,779 | NA | 231 | 174,571 | 3,044 | NA | 8 | 7 | NA |
| 1990 Total ^k | 811,538 | 20,194 | 209,081 | 1,332 | 2,832 | 244,765 | 4,346 | 288 | 1,256 | 257 | 86 |
| 1995 Total | 881,012 | 21,697 | 112,168 | 1,322 | 4,590 | 158,140 | 5,572 | 313 | 1,382 | 374 | 97 |
| 2000 Total | 1,015,398 | 34,572 | 156,673 | 2,904 | 4,669 | 217,494 | 6,677 | 356 | 1,380 | 401 | 109 |
| 2001 Total | 991,635 | 33,724 | 177,137 | 1,418 | 4,532 | 234,940 | 6,731 | 263 | 1,182 | 263 | 229 |
| 2002 Total | 1,005,144 | 24,749 | 118,637 | 3,257 | 7,353 | 183,409 | 6,986 | 278 | 1,287 | 289 | 252 |
| 2003 Total | 1,031,778 | 31,825 | 152,859 | 4,576 | 7,067 | 224,593 | 6,337 | 294 | 1,266 | 293 | 262 |
| 2004 Total | 1,044,798 | 23,520 | 157,478 | 4,764 | 8,721 | 229,364 | 6,727 | 353 | 1,360 | 282 | 254 |
| 2005 Total | 1,065,281 | 24,446 | 156,915 | 4,270 | 9,113 | 231,193 | 7,021 | 348 | 1,353 | 289 | 237 |
| 2006 Total | 1,053,783 | 14,655 | 69,846 | 3,396 | 8,622 | 131,005 | 7,404 | 341 | 1,399 | 300 | 247 |
| 2007 Total | 1,069,606 | 17,042 | 74,616 | 4,237 | 7,299 | 132,389 | 7,962 | 329 | 1,336 | 304 | 239 |
| 2008 Total | 1,064,503 | 14,137 | 43,477 | 3,765 | 6,314 | 92,948 | 7,689 | 300 | 1,263 | 328 | 212 |
| 2009 Total | 955,190 | 14,800 | 33,672 | 3,218 | 5,828 | 80,830 | 7,938 | 259 | 1,137 | 333 | 228 |
| 2010 Total | 1,001,411 | 15,247 | 26,944 | 2,777 | 6,053 | 75,231 | 8,502 | 262 | 1,226 | 346 | 237 |
| 2011 Total | 956,470 | 11,735 | 16,877 | 2,540 | 6,092 | 61,610 | 8,724 | 282 | 1,241 | 340 | 261 |
| 2012 Total | 845,066 | 9,945 | 13,571 | 2,185 | 5,021 | 50,805 | 10,371 | 302 | 1,273 | 355 | 252 |
| 2013 Total | 879,078 | 10,277 | 14,199 | 2,212 | 6,338 | 58,378 | 9,479 | 305 | 1,318 | 376 | 236 |
| 2014 Total | 871,741 | 15,107 | 16,615 | 2,908 | 5,695 | 63,106 | 9,410 | 304 | 1,378 | 395 | 236 |
| 2015 January | 73,033 | 1,354 | 1,913 | 350 | 510 | 6,169 | 824 | 28 | 121 | 33 | 19 |
| February | 68,640 | 3,892 | 4,468 | 824 | 513 | 11,747 | 749 | 23 | 109 | 29 | 17 |
| March | 59,861 | 889 | 981 | 176 | 376 | 3,926 | 817 | 24 | 111 | 33 | 19 |
| April | 49,840 | 665 | 912 | 184 | 406 | 3,790 | 765 | 23 | 109 | 32 | 19 |
| May | 58,488 | 863 | 866 | 201 | 435 | 4,107 | 839 | 24 | 112 | 32 | 20 |
| June | 70,309 | 807 | 964 | 193 | 398 | 3,952 | 997 | 25 | 111 | 32 | 20 |
| July | 78,021 | 780 | 1,241 | 206 | 490 | 4,674 | 1,166 | 26 | 117 | 35 | 22 |
| August | 75,156 | 727 | 1,101 | 176 | 475 | 4,379 | 1,148 | 26 | 118 | 34 | 21 |
| September | 66,124 | 663 | 959 | 234 | 475 | 4,229 | 1,008 | 25 | 111 | 32 | 20 |
| October | 54,904 | 660 | 903 | 203 | 384 | 3,684 | 904 | 22 | 106 | 34 | 20 |
| November | 50,264 | 829 | 973 | 121 | 365 | 3,750 | 845 | 21 | 110 | 35 | 20 |
| December | 51,587 | 796 | 855 | 140 | 362 | 3,603 | 889 | 24 | 116 | 37 | 21 |
| Total | 756,226 | 12,924 | 16,136 | 3,008 | 5,188 | 58,009 | 10,952 | 290 | 1,351 | 398 | 237 |
| 2016 January | 63,549 | 1,231 | 1,142 | 201 | 420 | 4,675 | 889 | 25 | 117 | 34 | 18 |
| February | 51,960 | 878 | 1,218 | 239 | 416 | 4,413 | 795 | 23 | 108 | 32 | 17 |
| March | 41,214 | 682 | 720 | 147 | 474 | 3,921 | 855 | 27 | 108 | 34 | 18 |
| April | 40,014 | 642 | 738 | 118 | 461 | 3,803 | 831 | 25 | 100 | 35 | 19 |
| May | 46,171 | 825 | 779 | 169 | 445 | 3,997 | 917 | 23 | 105 | 33 | 19 |
| June | 64,502 | 724 | 891 | 158 | 461 | 4,079 | 1,085 | 25 | 109 | 33 | 19 |
| July | 75,416 | 857 | 1,396 | 191 | 488 | 4,885 | 1,261 | 25 | 112 | 35 | 19 |
| August | 75,041 | 834 | 1,340 | 254 | 506 | 4,958 | 1,275 | 26 | 113 | 34 | 20 |
| September | 63,469 | 657 | 895 | 166 | 448 | 3,959 | 1,029 | 23 | 105 | 31 | 18 |
| October | 55,643 | 656 | 985 | 156 | 359 | 3,590 | 852 | 24 | 103 | 32 | 18 |
| November | 49,162 | 817 | 760 | 166 | 381 | 3,648 | 778 | 21 | 109 | 33 | 18 |
| December | 66,084 | 937 | 933 | 254 | 433 | 4,287 | 790 | 24 | 117 | 35 | 19 |
| Total | 692,225 | 9,742 | 11,798 | 2,219 | 5,291 | 50,214 | 11,357 | 289 | 1,306 | 401 | 222 |
| 2017 January | 64,808 | 1,058 | 940 | 235 | 436 | 4,411 | 765 | 25 | 113 | 36 | 19 |

^a Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.

^b Fuel oil nos. 1, 2, and 4. For 1949–1979, data are for gas turbine and internal combustion plant use of petroleum. For 1980–2000, electric utility data also include small amounts of kerosene and jet fuel.

^c Fuel oil nos. 5 and 6. For 1949–1979, data are for steam plant use of petroleum. For 1980–2000, electric utility data also include a small amount of fuel oil no. 4.

^d Jet fuel, kerosene, other petroleum liquids, waste oil, and, beginning in 2011, propane.

^e Petroleum coke is converted from short tons to barrels by multiplying by 5.

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

^g Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.

^h Wood and wood-derived fuels.

ⁱ Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes

non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

^j Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

^k Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities, independent power producers, commercial plants, and industrial plants.

NA=Not available. (s)=Less than 0.5 trillion Btu.

Notes: • Data are for utility-scale facilities. See Note 1, "Coverage of Electricity Statistics," 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/#electricity> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Sources: See "Table 7.4b Sources" at end of section and sources for Table 7.4c.

Table 7.4b Consumption of Combustible Fuels for Electricity Generation and Useful Thermal Output: Electric Power Sector (Subset of Table 7.4a)

| | Coal ^a Thousand Short Tons | Petroleum | | | | | Natural Gas ^f Billion Cubic Feet | Other Gases ^g | Biomass | | Other ⁱ |
|-------------------------------|--|--|--|----------------------------|--|--|--|--------------------------|-------------------|--------------------|--------------------|
| | | Distillate Fuel Oil ^b Thousand Barrels | Residual Fuel Oil ^c Thousand Barrels | Other Liquids ^d | Petroleum Coke ^e Thousand Short Tons | Total ^e Thousand Barrels | | | Wood ^h | Waste ⁱ | |
| | | | | | | | | | | | |
| 1950 Total | 91,871 | 5,423 | 69,998 | NA | NA | 75,421 | 629 | NA | 5 | NA | NA |
| 1955 Total | 143,759 | 5,412 | 69,862 | NA | NA | 75,274 | 1,153 | NA | 3 | NA | NA |
| 1960 Total | 176,685 | 3,824 | 84,371 | NA | NA | 88,195 | 1,725 | NA | 2 | NA | NA |
| 1965 Total | 244,788 | 4,928 | 110,274 | NA | NA | 115,203 | 2,321 | NA | 3 | NA | NA |
| 1970 Total | 320,182 | 24,123 | 311,381 | NA | 636 | 338,686 | 3,932 | NA | 1 | 2 | NA |
| 1975 Total | 405,962 | 38,907 | 467,221 | NA | 70 | 506,479 | 3,158 | NA | (s) | 2 | NA |
| 1980 Total | 569,274 | 29,051 | 391,163 | NA | 179 | 421,110 | 3,682 | NA | 3 | 2 | NA |
| 1985 Total | 693,841 | 14,635 | 158,779 | NA | 231 | 174,571 | 3,044 | NA | 8 | 7 | NA |
| 1990 Total^k | 782,567 | 16,567 | 184,915 | 26 | 1,008 | 206,550 | 3,245 | 11 | 129 | 188 | (s) |
| 1995 Total | 850,230 | 18,553 | 90,023 | 499 | 2,674 | 122,447 | 4,237 | 24 | 125 | 296 | 2 |
| 2000 Total | 985,821 | 30,016 | 138,513 | 454 | 3,275 | 185,358 | 5,206 | 25 | 134 | 318 | 1 |
| 2001 Total | 964,433 | 29,274 | 159,504 | 377 | 3,427 | 206,291 | 5,342 | 15 | 126 | 211 | 113 |
| 2002 Total | 977,507 | 21,876 | 104,773 | 1,267 | 5,816 | 156,996 | 5,672 | 33 | 150 | 230 | 143 |
| 2003 Total | 1,005,116 | 27,632 | 138,279 | 2,026 | 5,799 | 196,932 | 5,135 | 41 | 167 | 230 | 140 |
| 2004 Total | 1,016,268 | 19,107 | 139,816 | 2,713 | 7,372 | 198,498 | 5,464 | 58 | 165 | 223 | 138 |
| 2005 Total | 1,037,485 | 19,675 | 139,409 | 2,685 | 8,083 | 202,184 | 5,869 | 84 | 185 | 221 | 123 |
| 2006 Total | 1,026,636 | 12,646 | 57,345 | 1,870 | 7,101 | 107,365 | 6,222 | 65 | 182 | 231 | 125 |
| 2007 Total | 1,045,141 | 15,327 | 63,086 | 2,594 | 5,685 | 109,431 | 6,841 | 61 | 186 | 237 | 124 |
| 2008 Total | 1,040,580 | 12,547 | 38,241 | 2,670 | 5,119 | 79,056 | 6,668 | 61 | 177 | 258 | 131 |
| 2009 Total | 933,627 | 12,035 | 28,782 | 2,210 | 4,611 | 66,081 | 6,873 | 55 | 180 | 261 | 124 |
| 2010 Total | 975,052 | 13,790 | 24,503 | 1,877 | 4,777 | 64,055 | 7,387 | 52 | 196 | 264 | 124 |
| 2011 Total | 932,484 | 11,021 | 14,803 | 1,658 | 4,837 | 51,667 | 7,574 | 50 | 182 | 255 | 143 |
| 2012 Total | 823,551 | 9,080 | 12,203 | 1,339 | 2,974 | 37,495 | 9,111 | 54 | 190 | 262 | 143 |
| 2013 Total | 857,962 | 9,598 | 12,283 | 1,489 | 4,285 | 44,794 | 8,191 | 60 | 207 | 262 | 139 |
| 2014 Total | 851,602 | 14,235 | 15,132 | 2,208 | 4,132 | 52,235 | 8,146 | 44 | 251 | 279 | 137 |
| 2015 January | 71,323 | 1,272 | 1,754 | 276 | 379 | 5,198 | 711 | 4 | 22 | 23 | 11 |
| February | 67,061 | 3,683 | 4,182 | 748 | 397 | 10,599 | 648 | 4 | 21 | 20 | 10 |
| March | 58,272 | 831 | 857 | 117 | 264 | 3,126 | 709 | 3 | 21 | 22 | 11 |
| April | 48,449 | 619 | 819 | 97 | 281 | 2,941 | 664 | 3 | 18 | 22 | 11 |
| May | 57,060 | 821 | 777 | 111 | 330 | 3,360 | 734 | 4 | 18 | 23 | 11 |
| June | 68,867 | 766 | 883 | 106 | 298 | 3,248 | 886 | 3 | 21 | 23 | 12 |
| July | 76,452 | 727 | 1,167 | 142 | 402 | 4,044 | 1,046 | 3 | 22 | 26 | 12 |
| August | 73,678 | 685 | 1,033 | 113 | 378 | 3,723 | 1,027 | 4 | 23 | 25 | 12 |
| September | 64,682 | 626 | 910 | 162 | 363 | 3,516 | 895 | 4 | 20 | 23 | 11 |
| October | 53,557 | 618 | 845 | 124 | 292 | 3,049 | 792 | 3 | 17 | 24 | 11 |
| November | 48,879 | 790 | 911 | 57 | 252 | 3,020 | 732 | 3 | 19 | 25 | 11 |
| December | 50,165 | 753 | 792 | 77 | 268 | 2,964 | 769 | 4 | 21 | 25 | 12 |
| Total | 738,444 | 12,193 | 14,929 | 2,131 | 3,907 | 48,787 | 9,613 | 44 | 244 | 281 | 136 |
| 2016 January | 61,970 | 1,169 | 1,042 | 147 | 329 | 4,002 | 771 | 4 | 21 | 25 | 12 |
| February | 50,487 | 821 | 1,130 | 174 | 321 | 3,729 | 686 | 3 | 21 | 23 | 11 |
| March | 39,769 | 646 | 662 | 109 | 357 | 3,200 | 743 | 4 | 20 | 23 | 11 |
| April | 38,959 | 600 | 675 | 83 | 376 | 3,235 | 721 | 3 | 15 | 25 | 12 |
| May | 44,983 | 781 | 730 | 72 | 354 | 3,356 | 806 | 3 | 16 | 24 | 12 |
| June | 63,243 | 679 | 836 | 89 | 368 | 3,446 | 971 | 4 | 19 | 24 | 12 |
| July | 74,136 | 792 | 1,324 | 109 | 389 | 4,172 | 1,142 | 4 | 20 | 24 | 12 |
| August | 73,757 | 769 | 1,274 | 179 | 408 | 4,263 | 1,155 | 4 | 21 | 25 | 12 |
| September | 62,366 | 614 | 858 | 98 | 370 | 3,421 | 915 | 4 | 18 | 23 | 11 |
| October | 54,601 | 603 | 919 | 58 | 244 | 2,798 | 741 | 3 | 15 | 24 | 11 |
| November | 48,102 | 764 | 716 | 101 | 295 | 3,058 | 664 | 4 | 17 | 23 | 11 |
| December | 64,858 | 886 | 877 | 155 | 326 | 3,549 | 669 | 4 | 20 | 25 | 12 |
| Total | 677,231 | 9,125 | 11,043 | 1,374 | 4,137 | 42,228 | 9,984 | 44 | 222 | 287 | 137 |
| 2017 January | 63,462 | 985 | 862 | 162 | 354 | 3,778 | 639 | 4 | 19 | 25 | 12 |

^a Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.

^b Fuel oil nos. 1, 2, and 4. For 1949–1979, data are for gas turbine and internal combustion plant use of petroleum. For 1980–2000, electric utility data also include small amounts of kerosene and jet fuel.

^c Fuel oil nos. 5 and 6. For 1949–1979, data are for steam plant use of petroleum. For 1980–2000, electric utility data also include a small amount of fuel oil no. 4.

^d Jet fuel, kerosene, other petroleum liquids, waste oil, and, beginning in 2011, propane.

^e Petroleum coke is converted from short tons to barrels by multiplying by 5.

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

^g Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.

^h Wood and wood-derived fuels.

ⁱ Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and

tire-derived fuels).

^j Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

^k Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities and independent power producers.

NA=Not available. (s)=Less than 0.5 trillion Btu.

Notes: • Data are for utility-scale facilities. See Note 1, "Coverage of Electricity Statistics," at end of section. • 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. • 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/#electricity> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Sources: See end of section.

Table 7.4c Consumption of Selected Combustible Fuels for Electricity Generation and Useful Thermal Output: Commercial and Industrial Sectors (Subset of Table 7.4a)

| | Commercial Sector ^a | | | | Industrial Sector ^b | | | | | | |
|-------------------------|--------------------------------|------------------------|--------------------------|--------------------|--------------------------------|------------------------|--------------------------|--------------------------|-------------------|--------------------|--------------------|
| | Coal ^c | Petroleum ^d | Natural Gas ^e | Biomass | Coal ^c | Petroleum ^d | Natural Gas ^e | Other Gases ^g | Biomass | | Other ⁱ |
| | | | | Waste ^f | | | | | Wood ^h | Waste ^f | |
| | Thousand Short Tons | Thousand Barrels | Billion Cubic Feet | Trillion Btu | Thousand Short Tons | Thousand Barrels | Billion Cubic Feet | Trillion Btu | | | |
| 1990 Total | 1,191 | 2,056 | 46 | 28 | 27,781 | 36,159 | 1,055 | 275 | 1,125 | 41 | 86 |
| 1995 Total | 1,419 | 1,245 | 78 | 40 | 29,363 | 34,448 | 1,258 | 290 | 1,255 | 38 | 95 |
| 2000 Total | 1,547 | 1,615 | 85 | 47 | 28,031 | 30,520 | 1,386 | 331 | 1,244 | 35 | 108 |
| 2001 Total | 1,448 | 1,832 | 79 | 25 | 25,755 | 26,817 | 1,310 | 248 | 1,054 | 27 | 101 |
| 2002 Total | 1,405 | 1,250 | 74 | 26 | 26,232 | 25,163 | 1,240 | 245 | 1,136 | 34 | 92 |
| 2003 Total | 1,816 | 1,449 | 58 | 29 | 24,846 | 26,212 | 1,144 | 253 | 1,097 | 34 | 103 |
| 2004 Total | 1,917 | 2,009 | 72 | 34 | 26,613 | 28,857 | 1,191 | 295 | 1,193 | 24 | 94 |
| 2005 Total | 1,922 | 1,630 | 68 | 34 | 25,875 | 27,380 | 1,084 | 264 | 1,166 | 34 | 94 |
| 2006 Total | 1,886 | 935 | 68 | 36 | 25,262 | 22,706 | 1,115 | 277 | 1,216 | 33 | 102 |
| 2007 Total | 1,927 | 752 | 70 | 31 | 22,537 | 22,207 | 1,050 | 268 | 1,148 | 36 | 98 |
| 2008 Total | 2,021 | 671 | 66 | 34 | 21,902 | 13,222 | 955 | 239 | 1,084 | 35 | 60 |
| 2009 Total | 1,798 | 521 | 76 | 36 | 19,766 | 14,228 | 990 | 204 | 955 | 35 | 82 |
| 2010 Total | 1,720 | 437 | 86 | 36 | 24,638 | 10,740 | 1,029 | 210 | 1,029 | 47 | 91 |
| 2011 Total | 1,668 | 333 | 87 | 43 | 22,319 | 9,610 | 1,063 | 232 | 1,057 | 43 | 94 |
| 2012 Total | 1,450 | 457 | 111 | 45 | 20,065 | 12,853 | 1,149 | 249 | 1,082 | 47 | 81 |
| 2013 Total | 1,356 | 887 | 118 | 47 | 19,761 | 12,697 | 1,170 | 246 | 1,109 | 67 | 69 |
| 2014 Total | 1,063 | 758 | 119 | 47 | 19,076 | 10,112 | 1,145 | 260 | 1,122 | 70 | 72 |
| 2015 | | | | | | | | | | | |
| January | 97 | 88 | 10 | 4 | 1,613 | 884 | 103 | 23 | 98 | 6 | 6 |
| February | 97 | 221 | 9 | 3 | 1,483 | 926 | 92 | 20 | 87 | 5 | 5 |
| March | 83 | 53 | 9 | 4 | 1,506 | 746 | 99 | 21 | 90 | 6 | 5 |
| April | 54 | 39 | 8 | 4 | 1,336 | 810 | 93 | 20 | 90 | 6 | 6 |
| May | 50 | 34 | 9 | 4 | 1,378 | 713 | 95 | 20 | 93 | 5 | 6 |
| June | 61 | 28 | 10 | 4 | 1,381 | 676 | 101 | 21 | 90 | 5 | 6 |
| July | 64 | 32 | 11 | 4 | 1,505 | 599 | 109 | 22 | 95 | 5 | 7 |
| August | 58 | 42 | 11 | 4 | 1,420 | 614 | 110 | 22 | 95 | 5 | 7 |
| September | 51 | 22 | 11 | 4 | 1,391 | 691 | 102 | 21 | 90 | 5 | 6 |
| October | 52 | 20 | 10 | 4 | 1,296 | 616 | 102 | 18 | 88 | 7 | 6 |
| November | 59 | 23 | 9 | 4 | 1,325 | 707 | 103 | 18 | 91 | 7 | 6 |
| December | 72 | 20 | 10 | 4 | 1,350 | 618 | 110 | 20 | 94 | 7 | 6 |
| Total | 798 | 622 | 116 | 47 | 16,984 | 8,600 | 1,222 | 246 | 1,103 | 70 | 73 |
| 2016 | | | | | | | | | | | |
| January | 76 | 41 | 10 | 4 | 1,503 | 632 | 107 | 21 | 95 | 5 | 5 |
| February | 78 | 41 | 9 | 4 | 1,395 | 643 | 100 | 19 | 87 | 5 | 4 |
| March | 75 | 23 | 10 | 5 | 1,370 | 698 | 103 | 23 | 88 | 6 | 5 |
| April | 49 | 21 | 9 | 4 | 1,005 | 547 | 100 | 22 | 85 | 6 | 5 |
| May | 40 | 20 | 9 | 4 | 1,149 | 622 | 102 | 19 | 89 | 5 | 5 |
| June | 46 | 17 | 10 | 4 | 1,212 | 617 | 104 | 21 | 90 | 6 | 5 |
| July | 46 | 28 | 11 | 4 | 1,234 | 684 | 108 | 21 | 92 | 6 | 5 |
| August | 50 | 25 | 11 | 4 | 1,234 | 669 | 109 | 22 | 91 | 5 | 5 |
| September | 49 | 18 | 10 | 4 | 1,053 | 520 | 104 | 19 | 86 | 5 | 5 |
| October | 50 | 20 | 9 | 4 | 993 | 771 | 102 | 21 | 87 | 4 | 4 |
| November | 61 | 20 | 9 | 4 | 998 | 570 | 106 | 18 | 92 | 5 | 4 |
| December | 71 | 35 | 10 | 4 | 1,155 | 704 | 112 | 20 | 96 | 6 | 4 |
| Total | 692 | 310 | 117 | 49 | 14,302 | 7,676 | 1,257 | 246 | 1,080 | 65 | 56 |
| 2017 | | | | | | | | | | | |
| January | 62 | 71 | 11 | 4 | 1,284 | 562 | 114 | 21 | 94 | 7 | 5 |

^a Commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

^b Industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

^c Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal syngas.

^d Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, waste oil, and, beginning in 2011, propane.

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

^f Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

^g Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.

^h Wood and wood-derived fuels.

ⁱ Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

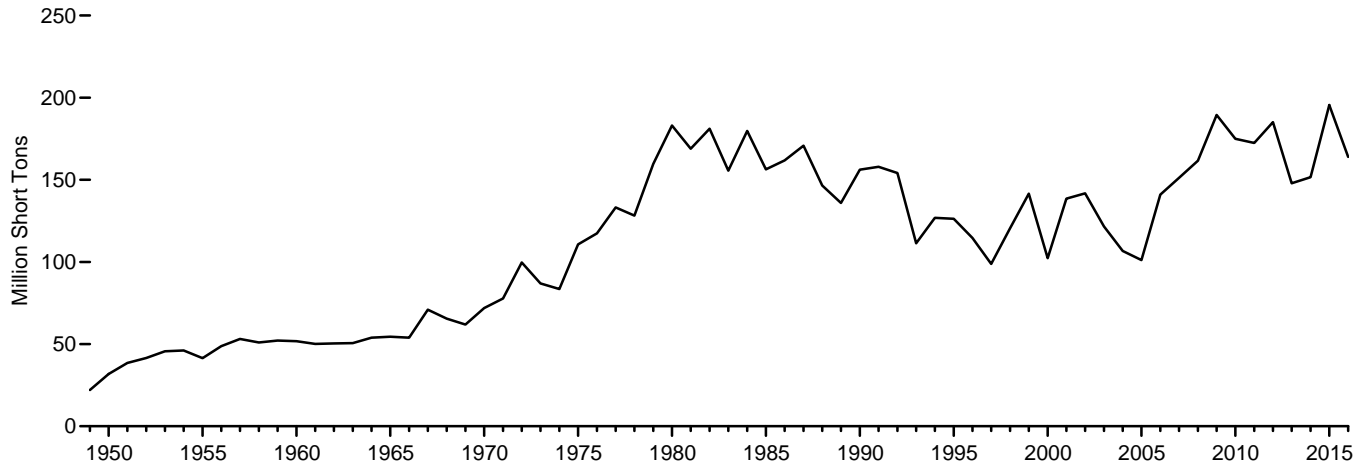
Notes: • Data are for utility-scale facilities. See Note 1, "Coverage of Electricity Statistics," at end of section. • See Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#electricity> (Excel and CSV files) for all available annual and monthly data beginning in 1989.

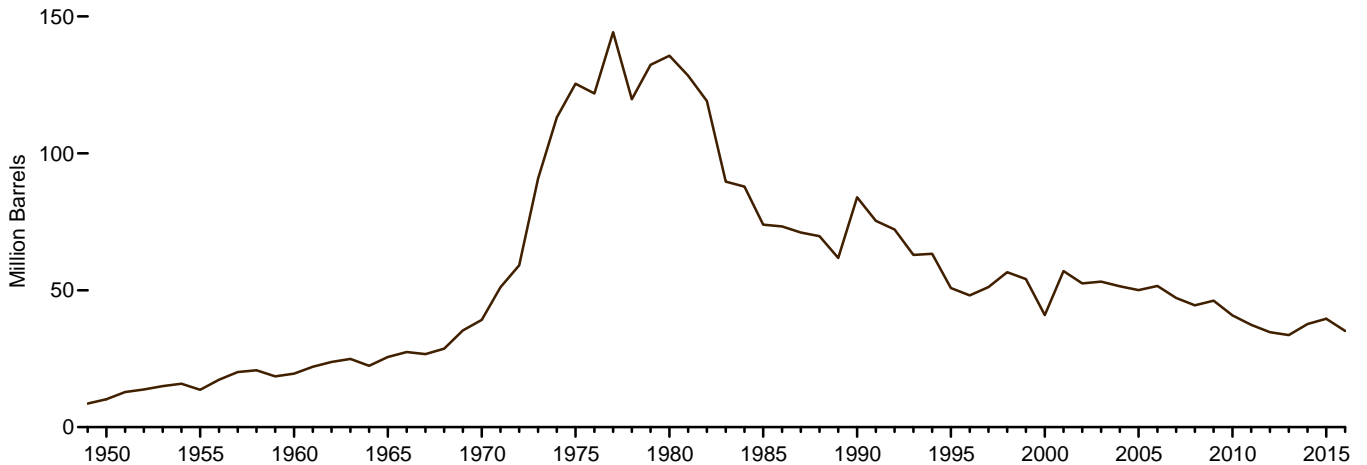
Sources: • **1989–1997:** U.S. Energy Information Administration (EIA), Form EIA-867, "Annual Nonutility Power Producer Report." • **1998–2000:** EIA, Form EIA-860B, "Annual Electric Generator Report—Nonutility." • **2001–2003:** EIA, Form EIA-906, "Power Plant Report." • **2004–2007:** EIA, Form EIA-906, "Power Plant Report," and Form EIA-920, "Combined Heat and Power Plant Report." • **2008 forward:** EIA, Form EIA-923, "Power Plant Operations Report."

Figure 7.5 Stocks of Coal and Petroleum: Electric Power Sector

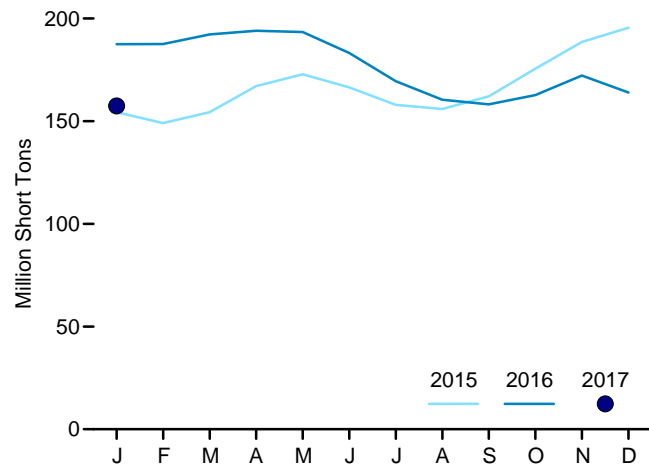
Coal, 1949–2016



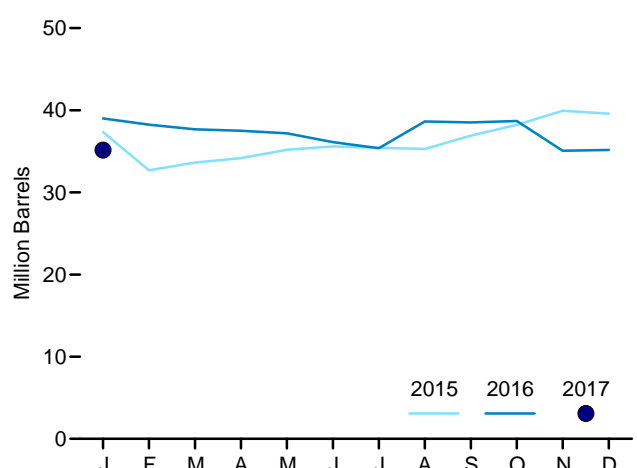
Total Petroleum, 1949–2016



Coal, Monthly



Total Petroleum, Monthly



Note: Data are for utility-scale facilities.
 Web Page: <http://www.eia.gov/totalenergy/data/monthly/#electricity>.
 Source: Table 7.5.

Table 7.5 Stocks of Coal and Petroleum: Electric Power Sector

| | Coal ^a | | Petroleum | | | | |
|------------------------|---------------------|--------|----------------------------------|--------------------------------|----------------------------|-----------------------------|----------------------|
| | Thousand Short Tons | | Distillate Fuel Oil ^b | Residual Fuel Oil ^c | Other Liquids ^d | Petroleum Coke ^e | Total ^{e,f} |
| | | | Thousand Barrels | | | Thousand Short Tons | Thousand Barrels |
| 1950 Year | 31,842 | NA | NA | NA | NA | NA | 10,201 |
| 1955 Year | 41,391 | NA | NA | NA | NA | NA | 13,671 |
| 1960 Year | 51,735 | NA | NA | NA | NA | NA | 19,572 |
| 1965 Year | 54,525 | NA | NA | NA | NA | NA | 25,647 |
| 1970 Year | 71,908 | NA | NA | NA | NA | 239 | 39,151 |
| 1975 Year | 110,724 | 16,432 | 108,825 | NA | 31 | 125,413 | |
| 1980 Year | 183,010 | 30,023 | 105,351 | NA | 52 | 135,635 | |
| 1985 Year | 156,376 | 16,386 | 57,304 | NA | 49 | 73,933 | |
| 1990 Year | 156,166 | 16,471 | 67,030 | NA | 94 | 83,970 | |
| 1995 Year | 126,304 | 15,392 | 35,102 | NA | 65 | 50,821 | |
| 2000 Year ^g | 102,296 | 15,127 | 24,748 | NA | 211 | 40,932 | |
| 2001 Year | 138,496 | 20,486 | 34,594 | NA | 390 | 57,031 | |
| 2002 Year | 141,714 | 17,413 | 25,723 | 800 | 1,711 | 52,490 | |
| 2003 Year | 121,567 | 19,153 | 25,820 | 779 | 1,484 | 53,170 | |
| 2004 Year | 106,669 | 19,275 | 26,596 | 879 | 937 | 51,434 | |
| 2005 Year | 101,137 | 18,778 | 27,624 | 1,012 | 530 | 50,062 | |
| 2006 Year | 140,964 | 18,013 | 28,823 | 1,380 | 674 | 51,583 | |
| 2007 Year | 151,221 | 18,395 | 24,136 | 1,902 | 554 | 47,203 | |
| 2008 Year | 161,589 | 17,761 | 21,088 | 1,955 | 739 | 44,498 | |
| 2009 Year | 189,467 | 17,886 | 19,068 | 2,257 | 1,394 | 46,181 | |
| 2010 Year | 174,917 | 16,758 | 16,629 | 2,319 | 1,019 | 40,800 | |
| 2011 Year | 172,387 | 16,649 | 15,491 | 2,707 | 508 | 37,387 | |
| 2012 Year | 185,116 | 16,433 | 12,999 | 2,792 | 495 | 34,698 | |
| 2013 Year | 147,884 | 16,068 | 12,926 | 2,679 | 390 | 33,622 | |
| 2014 Year | 151,548 | 18,309 | 12,764 | 2,432 | 827 | 37,643 | |
| 2015 January | 154,390 | 18,216 | 12,207 | 2,473 | 892 | 37,355 | |
| February | 149,071 | 16,459 | 9,798 | 2,188 | 850 | 32,697 | |
| March | 154,347 | 16,996 | 10,251 | 2,289 | 818 | 33,626 | |
| April | 167,063 | 17,167 | 10,152 | 2,294 | 912 | 34,173 | |
| May | 172,809 | 17,357 | 10,518 | 2,309 | 999 | 35,180 | |
| June | 166,437 | 17,513 | 10,570 | 2,358 | 1,031 | 35,598 | |
| July | 157,938 | 17,519 | 10,263 | 2,337 | 1,064 | 35,442 | |
| August | 155,952 | 17,712 | 10,087 | 2,345 | 1,029 | 35,286 | |
| September | 162,109 | 18,286 | 10,766 | 2,339 | 1,102 | 36,898 | |
| October | 175,588 | 18,596 | 11,492 | 2,375 | 1,151 | 38,217 | |
| November | 188,595 | 18,738 | 12,310 | 2,440 | 1,290 | 39,937 | |
| December | 195,548 | 17,955 | 12,566 | 2,363 | 1,340 | 39,586 | |
| 2016 January | 187,486 | 17,783 | 12,275 | 2,338 | 1,320 | 38,997 | |
| February | 187,575 | 17,457 | 11,880 | 2,300 | 1,323 | 38,254 | |
| March | 192,270 | 17,246 | 11,948 | 2,291 | 1,240 | 37,684 | |
| April | 194,063 | 17,300 | 12,187 | 2,115 | 1,181 | 37,506 | |
| May | 193,430 | 17,403 | 12,309 | 2,118 | 1,071 | 37,187 | |
| June | 183,246 | 17,325 | 12,151 | 2,117 | 905 | 36,121 | |
| July | 169,462 | 17,096 | 11,886 | 2,115 | 858 | 35,387 | |
| August | 160,449 | 20,989 | 11,644 | 2,097 | 780 | 38,628 | |
| September | 158,236 | 20,926 | 11,662 | 2,087 | 768 | 38,513 | |
| October | 162,737 | 21,015 | 11,519 | 2,097 | 812 | 38,693 | |
| November | 172,205 | 16,960 | 11,826 | 2,124 | 833 | 35,073 | |
| December | 163,943 | 16,985 | 11,670 | 2,153 | 872 | 35,167 | |
| 2017 January | 157,412 | 17,056 | 11,834 | 2,123 | 827 | 35,148 | |

^a Anthracite, bituminous coal, subbituminous coal, and lignite; excludes waste coal.

^b Fuel oil nos. 1, 2 and 4. For 1973–1979, data are for gas turbine and internal combustion plant stocks of petroleum. For 1980–2000, electric utility data also include small amounts of kerosene and jet fuel.

^c Fuel oil nos. 5 and 6. For 1973–1979, data are for steam plant stocks of petroleum. For 1980–2000, electric utility data also include a small amount of fuel oil no. 4.

^d Jet fuel and kerosene. Through 2003, data also include a small amount of waste oil.

^e Petroleum coke is converted from short tons to barrels by multiplying by 5.

^f Distillate fuel oil and residual fuel oil. Beginning in 1970, also includes petroleum coke. Beginning in 2002, also includes other liquids.

^g Through 1998, data are for electric utilities only. Beginning in 1999, data are for electric utilities and independent power producers.

NA=Not available.

Notes: • Data are for utility-scale facilities. See Note 1, "Coverage of Electricity Statistics," at end of section. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose

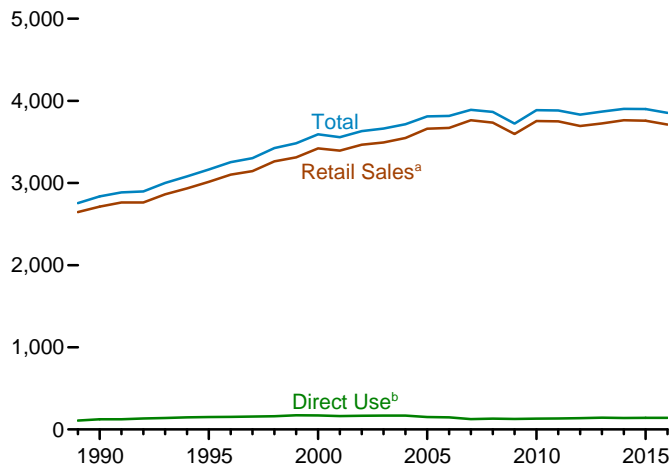
primary business is to sell electricity, or electricity and heat, to the public. • Stocks are at end of period. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

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

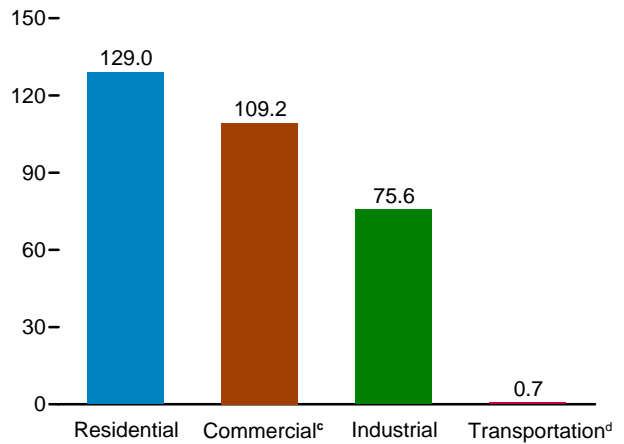
Sources: • **1949–September 1977:** Federal Power Commission, Form FPC-4, "Monthly Power Plant Report." • **October 1977–1981:** Federal Energy Regulatory Commission, Form FPC-4, "Monthly Power Plant Report." • **1982–1988:** U.S. Energy Information Administration (EIA), Form EIA-759, "Monthly Power Plant Report." • **1989–1997:** EIA, Form EIA-759, "Monthly Power Plant Report," and Form EIA-867, "Annual Nonutility Power Producer Report." • **1998–2000:** EIA, Form EIA-759, "Monthly Power Plant Report," and Form EIA-860B, "Annual Electric Generator Report—Nonutility." • **2001–2003:** EIA, Form EIA-906, "Power Plant Report." • **2004–2007:** EIA, Form EIA-906, "Power Plant Report," and Form EIA-920, "Combined Heat and Power Plant Report." • **2008 forward:** EIA, Form EIA-923, "Power Plant Operations Report."

Figure 7.6 Electricity End Use
(Billion Kilowatthours)

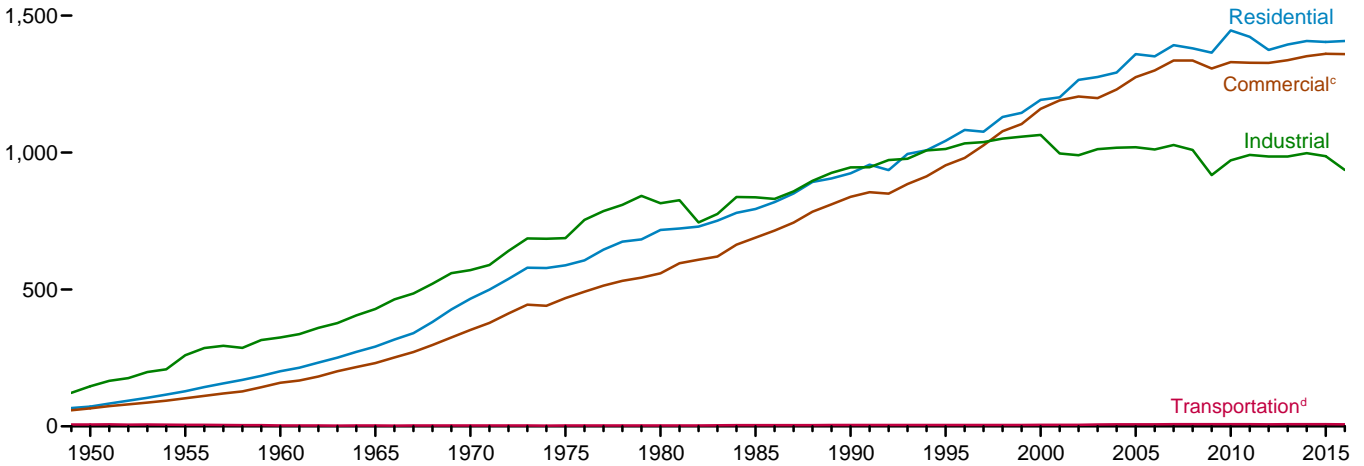
Electricity End Use Overview, 1989–2016



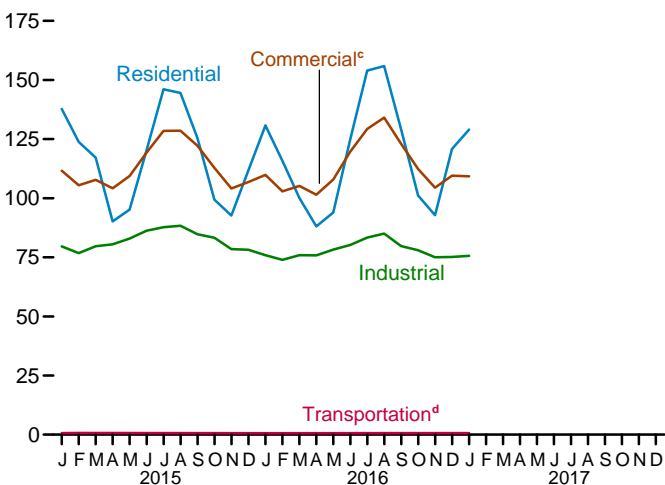
Retail Sales^a by Sector, January 2017



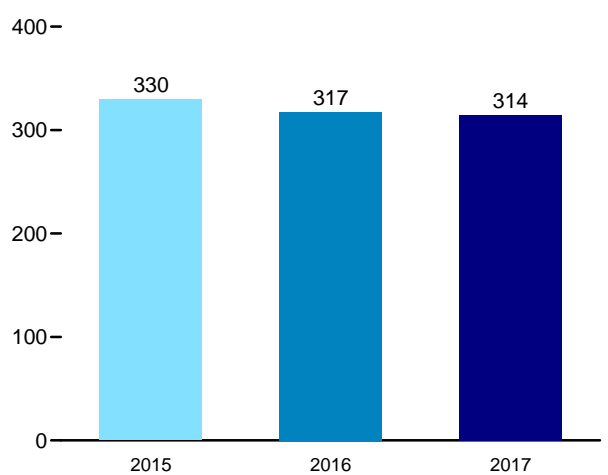
Retail Sales^a by Sector, 1949–2016



Retail Sales^a by Sector, Monthly



Retail Sales^a Total, January



^a Electricity retail sales to ultimate customers reported by utilities and other energy service providers.

^b See "Direct Use" in Glossary.

^c Commercial sector, including public street and highway lighting, inte-

departmental sales, and other sales to public authorities.

^d Transportation sector, including sales to railroads and railways.

Web Page: <http://www.eia.gov/totalenergy/data/monthly/#electricity>.

Source: Table 7.6.

Table 7.6 Electricity End Use
(Million Kilowatthours)

| | Retail Sales ^a | | | | | Direct Use ^f | Total End Use ^g |
|--------------|---------------------------|-------------------------|-------------------------|-----------------------------|---------------------------------|-------------------------|----------------------------|
| | Residential | Commercial ^b | Industrial ^c | Transportation ^d | Total Retail Sales ^e | | |
| 1950 Total | 72,200 | E 65,971 | 146,479 | E 6,793 | 291,443 | NA | 291,443 |
| 1955 Total | 128,401 | E 102,547 | 259,974 | E 5,826 | 496,748 | NA | 496,748 |
| 1960 Total | 201,463 | E 159,144 | 324,402 | E 3,066 | 688,075 | NA | 688,075 |
| 1965 Total | 291,013 | E 231,126 | 428,727 | E 2,923 | 953,789 | NA | 953,789 |
| 1970 Total | 466,291 | E 352,041 | 570,854 | E 3,115 | 1,392,300 | NA | 1,392,300 |
| 1975 Total | 588,140 | E 468,296 | 687,680 | E 2,974 | 1,747,091 | NA | 1,747,091 |
| 1980 Total | 717,495 | 558,643 | 815,067 | 3,244 | 2,094,449 | NA | 2,094,449 |
| 1985 Total | 793,934 | 689,121 | 836,772 | 4,147 | 2,323,974 | NA | 2,323,974 |
| 1990 Total | 924,019 | 838,263 | 945,522 | 4,751 | 2,712,555 | 124,529 | 2,837,084 |
| 1995 Total | 1,042,501 | 953,117 | 1,012,693 | 4,975 | 3,013,287 | 150,677 | 3,163,963 |
| 2000 Total | 1,192,446 | 1,159,347 | 1,064,239 | 5,382 | 3,421,414 | 170,943 | 3,592,357 |
| 2001 Total | 1,201,607 | 1,190,518 | 996,609 | 5,724 | 3,394,458 | 162,649 | 3,557,107 |
| 2002 Total | 1,265,180 | 1,204,531 | 990,238 | 5,517 | 3,465,466 | 166,184 | 3,631,650 |
| 2003 Total | 1,275,824 | 1,198,728 | 1,012,373 | 6,810 | 3,493,734 | 168,295 | 3,662,029 |
| 2004 Total | 1,291,982 | 1,230,425 | 1,017,850 | 7,224 | 3,547,479 | 168,470 | 3,715,949 |
| 2005 Total | 1,359,227 | 1,275,079 | 1,019,156 | 7,506 | 3,660,969 | 150,016 | 3,810,984 |
| 2006 Total | 1,351,520 | 1,299,744 | 1,011,298 | 7,358 | 3,669,919 | 146,927 | 3,816,845 |
| 2007 Total | 1,392,241 | 1,336,315 | 1,027,832 | 8,173 | 3,764,561 | 125,670 | 3,890,231 |
| 2008 Total | 1,380,662 | 1,336,133 | 1,009,516 | 7,653 | 3,733,965 | 132,197 | 3,866,161 |
| 2009 Total | 1,364,758 | 1,306,853 | 917,416 | 7,768 | 3,596,795 | 126,938 | 3,723,733 |
| 2010 Total | 1,445,708 | 1,330,199 | 971,221 | 7,712 | 3,754,841 | 131,910 | 3,886,752 |
| 2011 Total | 1,422,801 | 1,328,057 | 991,316 | 7,672 | 3,749,846 | 132,754 | 3,882,600 |
| 2012 Total | 1,374,515 | 1,327,101 | 985,714 | 7,320 | 3,694,650 | 137,657 | 3,832,306 |
| 2013 Total | 1,394,812 | 1,337,079 | 985,352 | 7,625 | 3,724,868 | 143,462 | 3,868,330 |
| 2014 Total | 1,407,208 | 1,352,158 | 997,576 | 7,758 | 3,764,700 | 138,574 | 3,903,274 |
| 2015 | | | | | | | |
| January | 137,765 | 111,620 | 79,609 | 673 | 329,666 | E 12,214 | 341,881 |
| February | 123,838 | 105,482 | 76,749 | 699 | 306,768 | E 10,703 | 317,472 |
| March | 117,167 | 107,796 | 79,709 | 679 | 305,352 | E 11,103 | 316,455 |
| April | 90,199 | 104,168 | 80,489 | 620 | 275,475 | E 10,644 | 286,119 |
| May | 95,161 | 109,406 | 82,916 | 609 | 288,091 | E 11,178 | 299,268 |
| June | 120,300 | 119,270 | 86,218 | 609 | 326,397 | E 11,897 | 338,294 |
| July | 146,038 | 128,504 | 87,747 | 648 | 362,938 | E 12,956 | 375,894 |
| August | 144,515 | 128,519 | 88,373 | 625 | 362,032 | E 12,716 | 374,748 |
| September | 125,417 | 122,195 | 84,730 | 615 | 332,958 | E 12,042 | 345,000 |
| October | 99,349 | 112,821 | 83,249 | 636 | 296,055 | E 11,542 | 307,598 |
| November | 92,678 | 104,140 | 78,495 | 604 | 275,917 | E 11,684 | 287,600 |
| December | 111,670 | 106,829 | 78,224 | 619 | 297,344 | E 12,488 | 309,831 |
| Total | 1,404,096 | 1,360,752 | 986,508 | 7,637 | 3,758,992 | 141,168 | 3,900,160 |
| 2016 | | | | | | | |
| January | 130,764 | 109,870 | 75,892 | 660 | 317,186 | E 12,253 | 329,439 |
| February | 115,820 | 102,877 | 73,909 | 647 | 293,253 | E 11,327 | 304,580 |
| March | 100,123 | 105,180 | 75,907 | 610 | 281,819 | E 11,885 | 293,704 |
| April | 88,107 | 101,464 | 75,801 | 595 | 265,967 | E 11,265 | 277,232 |
| May | 93,981 | 107,900 | 78,246 | 582 | 280,708 | E 11,658 | 292,367 |
| June | 124,888 | 119,673 | 80,234 | 632 | 325,427 | E 11,933 | 337,360 |
| July | 153,976 | 129,265 | 83,369 | 648 | 367,258 | E 12,561 | 379,819 |
| August | 155,851 | 134,078 | 85,061 | 632 | 375,622 | E 12,583 | 388,205 |
| September | 129,111 | 122,961 | 79,719 | 637 | 332,428 | E 11,680 | 344,109 |
| October | 101,137 | 112,346 | 77,960 | 613 | 292,056 | E 11,313 | 303,370 |
| November | 92,797 | 104,454 | 75,048 | 592 | 272,891 | E 11,542 | 284,432 |
| December | 120,840 | 109,548 | 75,124 | 652 | 306,163 | E 11,989 | 318,153 |
| Total | 1,407,394 | 1,359,617 | 936,269 | 7,499 | 3,710,779 | E 141,990 | 3,852,769 |
| 2017 | | | | | | | |
| January | 128,997 | 109,225 | 75,596 | 666 | 314,483 | E 12,130 | 326,613 |

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

^b Commercial sector, including public street and highway lighting, interdepartmental sales, and other sales to public authorities.

^c Industrial sector. Through 2002, excludes agriculture and irrigation; beginning in 2003, includes agriculture and irrigation.

^d Transportation sector, including sales to railroads and railways.

^e The sum of "Residential," "Commercial," "Industrial," and "Transportation."

^f Use of electricity that is 1) self-generated, 2) produced by either the same entity that consumes the power or an affiliate, and 3) used in direct support of a service or industrial process located within the same facility or group of facilities

that house the generating equipment. Direct use is exclusive of station use.

^g The sum of "Total Retail Sales" and "Direct Use."

E=Estimate. NA=Not available.

Notes: • See Note 1, "Coverage of Electricity Statistics," 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/#electricity> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Sources: See end of section.

Electricity

Note 1. Coverage of Electricity Statistics. Data in Section 7 cover the following:

Through 1984, data for electric utilities also include institutions (such as universities) and military facilities that generated electricity primarily for their own use; beginning in 1985, data for electric utilities exclude institutions and military facilities. Beginning in 1989, data for the commercial sector include institutions and military facilities.

The generation, consumption, and stocks data in Section 7 are for utility-scale facilities—those with a combined generation nameplate capacity of 1 megawatt or more. Data exclude distributed (small-scale) facilities—those with a combined generator nameplate capacity of less than 1 megawatt. For data on distributed solar photovoltaic (PV) generation in the residential, commercial, and industrial sectors, see Table 10.6.

Note 2. Classification of Power Plants Into Energy-Use Sectors. The U.S. Energy Information Administration (EIA) classifies power plants (both electricity-only and combined-heat-and-power plants) into energy-use sectors based on the North American Industry Classification System (NAICS), which replaced the Standard Industrial Classification (SIC) system in 1997. Plants with a NAICS code of 22 are assigned to the Electric Power Sector. Those with NAICS codes beginning with 11 (agriculture, forestry, fishing, and hunting); 21 (mining, including oil and gas extraction); 23 (construction); 31–33 (manufacturing); 2212 (natural gas distribution); and 22131 (water supply and irrigation systems) are assigned to the Industrial Sector. Those with all other codes are assigned to the Commercial Sector. Form EIA-860, “Annual Electric Generator Report,” asks respondents to indicate the primary purpose of the facility by assigning a NAICS code from the list at http://www.eia.gov/survey/form/eia_860/instructions.pdf.

Table 7.1 Sources

Net Generation, Electric Power Sector

1949 forward: Table 7.2b.

Net Generation, Commercial and Industrial Sectors

1949 forward: Table 7.2c.

Trade

1949–September 1977: Unpublished Federal Power Commission data.

October 1977–1980: Unpublished Economic Regulatory Administration (ERA) data.

1981: U.S. Department of Energy (DOE), Office of Energy Emergency Operations, “Report on Electric Energy Exchanges with Canada and Mexico for Calendar Year 1981,” April 1982 (revised June 1982).

1982 and 1983: DOE, ERA, *Electricity Exchanges Across*

International Borders.

1984–1986: DOE, ERA, *Electricity Transactions Across International Borders.*

1987 and 1988: DOE, ERA, Form ERA-781R, “Annual Report of International Electrical Export/Import Data.”

1989: DOE, Fossil Energy, Form FE-781R, “Annual Report of International Electrical Export/Import Data.”

1990–2000: National Energy Board of Canada; and DOE, Office of Electricity Delivery and Energy Reliability, Form FE-781R, “Annual Report of International Electrical Export/Import Data.”

2001–May 2011: National Energy Board of Canada; DOE, Office of Electricity Delivery and Energy Reliability, Form OE-781R, “Monthly Electricity Imports and Exports Report,” and predecessor form; and California Independent System Operator.

June 2011 forward: National Energy Board of Canada; California Independent System Operator; and EIA estimates for Texas transfers.

T&D Losses and Unaccounted for

1949 forward: Calculated as the sum of total net generation and imports minus end use and exports.

End Use

1949 forward: Table 7.6.

Table 7.2b Sources

1949–September 1977: Federal Power Commission, Form FPC-4, “Monthly Power Plant Report.”

October 1977–1981: Federal Energy Regulatory Commission, Form FPC-4, “Monthly Power Plant Report.”

1982–1988: U.S. Energy Information Administration (EIA), Form EIA-759, “Monthly Power Plant Report.”

1989–1997: EIA, Form EIA-759, “Monthly Power Plant Report,” and Form EIA-867, “Annual Nonutility Power Producer Report.”

1998–2000: EIA, Form EIA-759, “Monthly Power Plant Report,” and Form EIA-860B, “Annual Electric Generator Report—Nonutility.”

2001–2003: EIA, Form EIA-906, “Power Plant Report.”

2004–2007: EIA, Form EIA-906, “Power Plant Report,” and Form EIA-920, “Combined Heat and Power Plant Report.”

2008 forward: EIA, Form EIA-923, “Power Plant Operations Report” as of March 29, 2017.

Table 7.2c Sources

Industrial Sector, Hydroelectric Power, 1949–1988

1949–September 1977: Federal Power Commission (FPC), Form FPC-4, “Monthly Power Plant Report,” for plants with generating capacity exceeding 10 megawatts, and FPC, Form FPC-12C, “Industrial Electric Generating Capacity,” for all other plants.

October 1977–1978: Federal Energy Regulatory Commission (FERC), Form FPC-4, “Monthly Power Plant Report,” for

plants with generating capacity exceeding 10 megawatts, and FERC, Form FPC-12C, “Industrial Electric Generating Capacity,” for all other plants.

1979: FERC, Form FPC-4, “Monthly Power Plant Report,” for plants with generating capacity exceeding 10 megawatts, and U.S. Energy Information Administration (EIA) estimates for all other plants.

1980–1988: Estimated by EIA as the average generation over the 6-year period of 1974–1979.

All Data, 1989 Forward

1989–1997: EIA, Form EIA-867, “Annual Nonutility Power Producer Report.”

1998–2000: EIA, Form EIA-860B, “Annual Electric Generator Report—Nonutility.”

2001–2003: EIA, Form EIA-906, “Power Plant Report.”

2004–2007: EIA, Form EIA-906, “Power Plant Report,” and Form EIA-920, “Combined Heat and Power Plant Report.”

2008 forward: EIA, Form EIA-923, “Power Plant Operations Report” as of March 29, 2017.

Table 7.3b Sources

1949–September 1977: Federal Power Commission, Form FPC-4, “Monthly Power Plant Report.”

October 1977–1981: Federal Energy Regulatory Commission, Form FPC-4, “Monthly Power Plant Report.”

1982–1988: U.S. Energy Information Administration (EIA), Form EIA-759, “Monthly Power Plant Report.”

1989–1997: EIA, Form EIA-759, “Monthly Power Plant Report,” and Form EIA-867, “Annual Nonutility Power Producer Report.”

1998–2000: EIA, Form EIA-759, “Monthly Power Plant Report,” and Form EIA-860B, “Annual Electric Generator Report—Nonutility.”

2001–2003: EIA, Form EIA-906, “Power Plant Report.”

2004–2007: EIA, Form EIA-906, “Power Plant Report,” and Form EIA-920, “Combined Heat and Power Plant Report.”

2008 forward: EIA, Form EIA-923, “Power Plant Operations Report” as of March 29, 2017.

Table 7.4b Sources

1949–September 1977: Federal Power Commission, Form FPC-4, “Monthly Power Plant Report.”

October 1977–1981: Federal Energy Regulatory Commission, Form FPC-4, “Monthly Power Plant Report.”

1982–1988: U.S. Energy Information Administration (EIA), Form EIA-759, “Monthly Power Plant Report.”

1989–1997: EIA, Form EIA-759, “Monthly Power Plant Report,” and Form EIA-867, “Annual Nonutility Power Producer Report.”

1998–2000: EIA, Form EIA-759, “Monthly Power Plant

Report,” and Form EIA-860B, “Annual Electric Generator Report—Nonutility.”

2001–2003: EIA, Form EIA-906, “Power Plant Report.”

2004–2007: EIA, Form EIA-906, “Power Plant Report,” and Form EIA-920, “Combined Heat and Power Plant Report.”

2008 forward: EIA, Form EIA-923, “Power Plant Operations Report” as of March 29, 2017.

Table 7.6 Sources

Retail Sales, Residential and Industrial

1949–September 1977: Federal Power Commission, Form FPC-5, “Monthly Statement of Electric Operating Revenue and Income.”

October 1977–February 1980: Federal Energy Regulatory Commission (FERC), Form FPC-5, “Monthly Statement of Electric Operating Revenue and Income.”

March 1980–1982: FERC, Form FPC-5, “Electric Utility Company Monthly Statement.”

1983: U.S. Energy Information Administration (EIA), Form EIA-826, “Electric Utility Company Monthly Statement.”

1984–2003: EIA, Form EIA-861, “Annual Electric Utility Report.”

2004 forward: EIA, *Electric Power Monthly (EPM)*, March 2017, Table 5.1.

Retail Sales, Commercial

1949–2002: Data are estimates. See estimation methodology at http://www.eia.gov/state/seds/sep_use/notes/use_elec.pdf.

2003: EIA, Form EIA-861, “Annual Electric Utility Report.”

2004 forward: EIA, EPM, March 2017, Table 5.1.

Retail Sales, Transportation

1949–2002: Data are estimates. See estimation methodology at http://www.eia.gov/state/seds/sep_use/notes/use_elec.pdf.

2003: EIA, Form EIA-861, “Annual Electric Utility Report.”

2004 forward: EIA, EPM, March 2017, Table 5.1.

Direct Use, Annual

1989–1997: EIA, Form EIA-867, “Annual Nonutility Power Producer Report.”

1998–2000: EIA, Form EIA-860B, “Annual Electric Generator Report—Nonutility.”

2001–2015: EIA, *Electric Power Annual 2015*, November 2016, Table 2.2.

2016: Sum of monthly estimates.

Direct Use, Monthly

1989 forward: Annual shares are calculated as annual direct use divided by annual commercial and industrial net generation (on Table 7.1). Then monthly direct use estimates are calculated as the annual share multiplied by the monthly commercial and industrial net generation values. For 2016 and 2017, the 2015 annual share is used.

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