February 2015 Monthly Energy Review





Monthly Energy Review

The *Monthly Energy Review (MER)* is the U.S. Energy Information Administration's (EIA) primary report of recent and historical energy statistics. Included are statistics on total energy production, consumption, trade, and energy prices; overviews of petroleum, natural gas, coal, electricity, nuclear energy, renewable energy, and international petroleum; carbon dioxide emissions; and data unit conversions.

Release of the MER is in keeping with responsibilities given to EIA in Public Law 95–91 (Department of Energy Organization Act), which states, in part, in Section 205(a)(2):

"The Administrator shall be responsible for carrying out a central, comprehensive, and unified energy data and information program which will collect, evaluate, assemble, analyze, and disseminate data and information...."

The MER is intended for use by Members of Congress, federal and state agencies, energy analysts, and the general public. EIA welcomes suggestions from readers regarding the content of the MER and other EIA publications.

Related Monthly Publications: Other monthly EIA reports are *Petroleum Supply Monthly*, *Petroleum Marketing Monthly*, *Natural Gas Monthly*, and *Electric Power Monthly*. For more information, contact EIA's Office of Communications via email at infoctr@eia.gov.

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Data Displayed: For tables beginning in 1949, annual data are usually displayed only in 5-year increments between 1950 and 2000 in the tables in Portable Document Format (PDF) files; however, all annual data are shown in the Excel and comma-separated values (CSV) files. Also, only two to three years of monthly data are displayed in the PDF files; however, for many series, monthly data beginning with January 1973 are available in the Excel and CSV files.

Comprehensive Changes: Each month, most MER tables and figures carry a new month of data, which is usually preliminary (and sometimes estimated or even forecast) and likely to be revised in the succeeding month.

Annual Data From 1949: In 2013, EIA expanded the MER to incorporate annual data as far back as 1949 in those data tables that were previously published in both the *Annual Energy Review (AER)* and MER. Analysts may wish to use the data in this report in conjunction with the AER which offers annual data beginning in 1949 for many related supplemental data series that are not found in the MER. The AER is available at http://www.eia.gov/totalenergy/data/annual.

Electronic Access

The MER is available on EIA's website in a variety of formats at http://www.eia.gov/totalenergy/data/monthly.

- Full report and sections: PDF files
- Report tables: PDF files
- Table data (unrounded): Excel and CSV files
- Graphs: PDF files

Note: PDF files display selected annual and monthly data; Excel and CSV files display all available annual and monthly data, often at a greater level of precision than the PDF files.

Timing of Release: The MER is posted on the EIA website no later than the last work day of the month at http://www.eia.gov/totalenergy/data/monthly.

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Monthly Energy Review February 2015

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Contacts

The *Monthly Energy Review* is prepared by the U.S. Energy Information Administration, Office of Energy Statistics, Office of Survey Development and Statistical Integration, Integrated Energy Statistics Team, under the direction of Barbara T. Fichman, 202-586-5737 (barbara.fichman@eia.gov). Questions and comments specifically related to the *Monthly Energy Review* may be addressed to Alexander Sun, 202-287-5948 (alexander.sun@eia.gov).

For assistance in acquiring data, please contact EIA's Office of Communications at 202-586-8800 (infoctr@eia.gov). Questions about the collection, processing, or interpretation of the information may be directed to the following subject specialists:

Section	1.	Energy Overview.	Dianne R. Dunn	202-586-2792 dianne.dunn@eia.gov
Section	2.	Energy Consumption by Sector	. Dianne R. Dunn	202-586-2792 dianne.dunn@eia.gov
Section	3.	Petroleum	. Jennifer Barrick	202-586-6254 jennifer.barrick@eia.gov
Section	4.	Natural Gas	Amy Sweeney	202-586-2627 amy.sweeney@eia.gov
Section	5.	Crude Oil and Natural Gas Resource Development	. Neal Davis	202-586-6581 neal.davis@eia.gov
Section	6.	Coal	.Sundar Thapa	202-586-3836 sundar.thapa@eia.gov
Section	7.	Electricity	. Ronald S. Hankey	202-586-2630 ronald.hankey@eia.gov
Section	8.	Nuclear Energy	Stan Kaplan	202-586-5114 stan.kaplan@eia.gov
Section	9.	Energy Prices		
		Petroleum	Maureen Klein	202-586-8013 maureen.klein@eia.gov
		Natural Gas	Amy Sweeney	202-586-2627 amy.sweeney@eia.gov
		Average Retail Prices of Electricity	. Peter Wong	202-586-7574 peter.wong@eia.gov
		Cost of Fuel at Electric Generating Plants	.Rebecca Peterson	202-586-4509 rebecca.peterson@eia.gov
Section	10.	Renewable Energy	. Stan Kaplan	202-586-5114 stan.kaplan@eia.gov
Section	11.	International Petroleum	Patricia Smith	202-586-6925 patricia.smith@eia.gov

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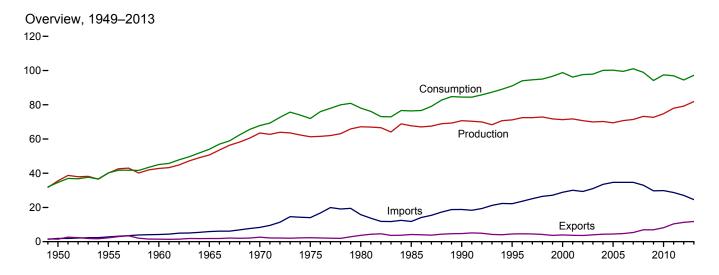
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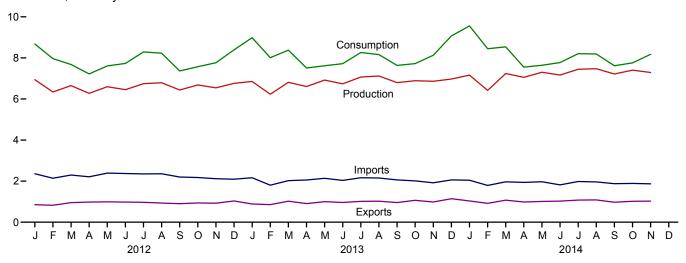
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Energy Overview

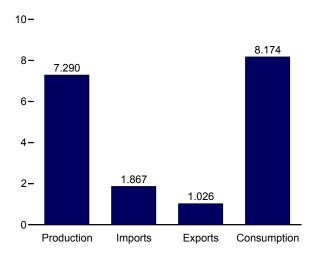
Figure 1.1 Primary Energy Overview (Quadrillion Btu)



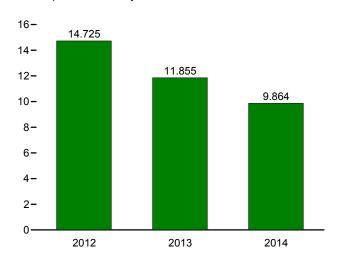
Overview, Monthly







Net Imports, January–November



Web Page: http://www.eia.gov/totalenergy/data/monthly/#summary. Source: Table 1.1.

Table 1.1 Primary Energy Overview

		Prod	uction			Trade						
	Fossil Fuels ^a	Nuclear Electric Power	Renew- able Energy ^b	Total	Imports	Exports	Net Imports ^c	Stock Change and Other ^d	Fossil Fuels ^e	Nuclear Electric Power	Renew- able Energy ^b	Total ^f
1950 Total 1955 Total 1960 Total 1965 Total 1970 Total 1975 Total 1985 Total 1985 Total 1990 Total 1995 Total 1995 Total 2000 Total	32.563 37.364 39.869 47.235 59.186 54.733 59.008 57.539 58.560 57.540 57.366 58.541	0.000 .000 .006 .043 .239 1.900 2.739 4.076 6.104 7.075 7.862 8.029	2.978 2.784 2.928 3.396 4.070 4.687 5.428 6.084 6.041 6.558 6.104 5.164	35.540 40.148 42.803 50.674 63.495 61.320 67.175 67.698 70.705 71.174 71.332 71.735	1.913 2.790 4.188 5.892 8.342 14.032 15.796 11.781 18.817 22.180 28.865 30.052	1.465 2.286 1.477 1.829 2.632 2.323 3.695 4.196 4.752 4.496 3.962 3.731	0.448 .504 2.710 4.063 5.709 12.101 7.584 14.065 17.684 24.904 26.321	-1.372 444 427 722 -1.367 -1.065 -1.210 1.110 284 2.174 2.583 -1.883	31.632 37.410 42.137 50.577 63.522 65.357 69.828 66.093 72.332 77.262 84.735 82.906	0.000 .000 .006 .043 .239 1.900 2.739 4.076 6.104 7.075 7.862 8.029	2.978 2.784 2.928 3.396 4.070 4.687 5.428 6.084 6.041 6.560 6.106 5.163	34.616 40.208 45.086 54.015 67.838 71.965 78.067 76.392 84.485 91.032 98.819 96.172
2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2008 Total 2009 Total 2010 Total 2011 Total	56.834 56.033 55.942 55.044 55.938 56.436 57.587 56.662 58.230 60.548	8.145 7.960 8.223 8.161 8.215 8.459 8.426 8.355 8.434 8.269	5.734 5.947 6.069 6.229 6.599 6.528 7.219 7.655 8.128 9.170	70.713 69.939 70.234 69.434 70.751 71.422 73.233 72.672 74.793 77.986	29.331 31.007 33.492 34.659 34.649 34.679 32.970 29.690 29.866 28.748	3.608 4.013 4.351 4.462 4.727 5.338 6.949 6.920 8.176 10.382	25.722 26.994 29.141 30.197 29.921 29.341 26.021 22.770 21.690 18.366	1.211 .989 .721 .565 -1.176 .271 335 -1.291 1.013	83.700 83.992 85.754 85.709 84.570 85.928 83.178 78.042 80.891 79.447	8.145 7.960 8.223 8.161 8.215 8.459 8.426 8.355 8.434 8.269	5.729 5.948 6.081 6.242 6.649 6.541 7.202 7.638 8.081 9.074	97.647 97.922 100.096 100.196 99.497 101.034 98.919 94.152 97.496 96.917
February February March April May June July August September October November December Total	5.409 4.979 5.212 4.923 5.141 4.996 5.277 5.349 5.119 5.378 5.265 5.276 62.324	.758 .669 .647 .585 .651 .683 .724 .729 .676 .626 .594 .719	.772 .693 .792 .765 .806 .772 .743 .712 .644 .678 .683 .766	6.939 6.341 6.651 6.273 6.597 6.451 6.791 6.439 6.681 6.543 6.761	2.360 2.142 2.295 2.210 2.391 2.370 2.353 2.360 2.198 2.175 2.119 2.092 27.065	.853 .824 .954 .981 .993 .979 .967 .934 .900 .938 .924 1.036	1.507 1.317 1.341 1.230 1.398 1.391 1.386 1.425 1.298 1.238 1.194 1.056 15.781	.230 .308 314 284 385 111 .160 .013 370 349 .029 .574	7.156 6.606 6.236 5.861 6.142 6.262 6.803 6.764 6.034 6.249 6.476 6.898 77.487	.758 .669 .647 .585 .651 .683 .724 .729 .676 .626 .594 .719	.751 .681 .785 .761 .803 .772 .744 .718 .643 .683 .683 .763	8.676 7.966 7.678 7.220 7.610 7.731 8.290 8.229 7.366 7.570 7.767 8.392 94.496
Petruary February March April May June July August September October November December Total	R 5.313 R 4.881 5.382 5.200 5.404 5.221 R 5.516 R 5.635 R 5.410 R 5.424 R 5.426 R 64.298	.748 .644 .660 .595 .659 .696 .739 .748 .690 .662 .681 .747	.794 .705 .770 .808 .857 .821 .813 .737 .695 .740 .759 .799	6.855 R 6.230 6.812 6.603 6.920 6.738 R 7.069 R 7.119 R 6.795 R 6.888 R 6.884 R 6.971 R 81.865	2.163 1.802 2.024 2.053 2.136 2.037 2.166 2.152 2.061 2.013 1.919 2.060 24.586	.885 .854 1.021 .907 .998 .961 1.016 1.021 .958 1.065 .986 1.142 11.812	1.278 .948 1.003 1.146 1.138 1.075 1.150 1.131 1.103 .948 .934 .919	R. 853 R. 834 R. 563 R241 R442 095 R. 047 R091 265 R115 R. 330 R. 1.181 R. 2.560	R 7.431 R 6.649 6.934 6.093 R 6.085 6.182 6.696 6.658 6.229 R 6.303 6.679 R 7.516	.748 .644 .660 .595 .696 .739 .748 .690 .662 .681 .747	.793 .706 .771 .810 .857 .823 .812 .735 .699 .743 .754 .795	R 8.986 R 8.012 8.379 7.509 7.506 R 7.616 R 7.718 R 8.265 8.160 7.633 R 7.721 R 8.127 R 9.071
Petron September Cotober November 11-Month Total Narch Cotober November 11-Month Total Narch Cotober November 11-Month Total	R 5.577 R 5.061 R 5.737 R 5.604 R 5.785 R 5.599 R 5.874 R 5.976 R 5.801 R 5.990 5.799 62.803	.766 .656 .654 .591 .660 .714 .754 .745 .708 .654 .683 7.584	.819 .702 .849 .857 .853 .819 .751 .707 .760 .809	R 7.162 R 6.419 R 7.240 R 7.052 R 7.302 R 7.166 R 7.447 R 7.472 R 7.216 R 7.404 7.290	2.043 1.790 1.965 1.937 1.969 1.818 1.980 1.963 1.876 1.887 1.867 21.093	1.036 .918 1.072 .984 1.013 1.028 1.076 1.085 .974 1.018 1.026 11.229	1.007 .872 .893 .954 .956 .790 .903 .878 .902 .868 .841	R 1.389 R 1.154 R .405 R - 454 R - 615 R182 R144 R160 R500 R513 .042	R 7.968 R 7.081 R 7.033 R 6.096 R 6.113 R 6.198 R 6.624 R 6.676 R 6.189 R 6.332 6.669 72.978	.766 .656 .654 .591 .660 .714 .754 .745 .708 .654 .683 7.584	.812 .699 .840 .854 .856 .848 .812 .751 .705 .760 .806	R 9.558 R 8.446 R 8.537 R 7.551 R 7.643 R 7.774 R 8.206 R 8.190 R 7.618 R 7.759 8.174
2013 11-Month Total 2012 11-Month Total	58.873 57.048	7.521 7.343	8.500 8.060	74.893 72.451	22.525 24.973	10.671 10.248	11.855 14.725	1.379 -1.072	71.938 70.588	7.521 7.343	8.503 8.023	88.127 86.105

R=Revised.

a Coal, natural gas (dry), crude oil, and natural gas plant liquids.
b See Tables 10.1–10.2c for notes on series components and estimation; and see Note, "Renewable Energy Production and Consumption," at end of Section 10.
c Net imports equal imports minus exports.
d Includes petroleum stock change and adjustments; natural gas net storage withdrawals and balancing item; coal stock change, losses, and unaccounted for; fuel ethanol stock change; and biodiesel stock change and balancing item.

e Coal, coal coke net imports, natural gas, and petroleum.

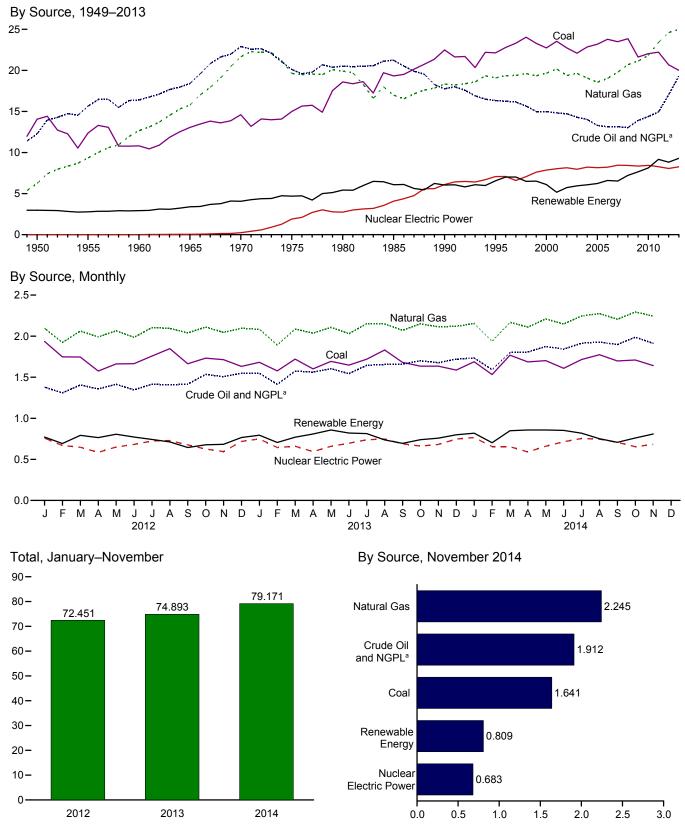
Also includes electricity net imports.

Notes: • See "Primary Energy," "Primary Energy Production," and "Primary Energy Consumption," in Glossary. • 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/#summary (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Sources: • Production: Table 1.2. • Trade: Tables 1.4a and 1.4b. • Stock Change and Other: Calculated as consumption minus production and net imports. • Consumption: Table 1.3.

Figure 1.2 Primary Energy Production (Quadrillion Btu)



^a Natural gas plant liquids.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#summary. Source: Table 1.2.

Table 1.2 Primary Energy Production by Source

1950 Total			F	ossil Fuels						Renewabl	e Energy	a		
1955 Total 12.370 9.345 14.410 1.240 37.364 .000 1.360 NA NA NA 1.424 2.784 40.195		Coal ^b	Gas		NGPLd	Total	Electric	eléctric			Wind		Total	Total
2011 2012 23,406 11,950 2,970 60,548 8,269 3,103 2,12 3,71 1,168 4,516 9,170 77.	1955 Total 1960 Total 1960 Total 1975 Total 1975 Total 1980 Total 1980 Total 1980 Total 1980 Total 1990 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2007 Total 2008 Total	14.060 12.370 10.817 13.055 14.607 14.989 18.598 19.325 22.488 22.130 22.735 23.547 22.732 22.094 22.852 23.185 23.790 23.493 23.493 23.493 23.451 21.624	6.233 9.345 12.656 15.775 21.666 19.640 19.908 16.980 18.326 19.082 20.166 19.382 19.662 20.166 19.383 19.074 18.556 19.022 19.786 20.703 21.139	11.447 14.410 14.935 16.521 20.401 17.729 18.249 18.992 15.571 13.887 12.282 12.160 11.960 11.550 10.969 10.771 10.748 10.613 11.325	0.823 1.240 1.461 1.883 2.512 2.374 2.254 2.241 2.175 2.442 2.611 2.547 2.547 2.346 2.466 2.334 2.356 2.409 2.419	32.563 37.364 39.869 47.235 59.183 59.008 57.539 58.560 57.540 57.366 58.541 56.033 55.942 55.044 55.938 56.436 57.587	0.000 .000 .006 .043 .239 1.900 2.739 4.076 6.104 7.075 7.862 8.029 8.145 7.960 8.223 8.161 8.215 8.459 8.459 8.459	1.415 1.360 1.608 2.059 2.634 3.155 2.900 2.970 3.046 3.205 2.811 2.242 2.689 2.793 2.688 2.793 2.869 2.446 2.511 2.669	NA NA (s) .002 .006 .034 .053 .097 .171 .152 .164 .171 .173 .178 .181 .181 .186 .192 .200	NA NA NA NA NA NA (s) .059 .069 .064 .063 .063 .063 .063 .063	NA NA NA NA NA NA (s) .029 .033 .057 .070 .105 .115 .142 .178 .264 .341 .546	1.562 1.424 1.320 1.335 1.431 1.499 2.475 3.016 2.735 3.096 2.624 2.705 2.805 2.998 3.104 3.216 3.480 3.881	2.978 2.978 2.928 3.396 4.070 4.687 5.428 6.084 6.041 6.558 6.104 5.164 5.734 6.069 6.229 6.528 7.219 7.655	35.540 40.148 42.803 50.674 63.495 67.175 67.698 70.705 71.174 71.332 71.735 70.713 69.939 70.234 70.751 71.422 73.233 72.672 74.793
February 1.577 1.891 1.153 2.59 R4.881 6.44 1.95 0.17 0.21 1.32 3.39 7.05 R6. March 1.720 2.086 R1.290 2.86 5.382 6.60 1.97 0.19 0.25 1.49 3.81 7.70 6. April 1.601 2.037 1.281 2.80 5.200 5.95 2.36 0.18 0.25 1.65 3.65 8.08 6. May 1.693 2.107 1.310 2.94 5.404 6.59 2.72 0.18 0.26 1.55 3.86 8.57 6. June 1.647 2.030 1.260 2.83 5.221 6.96 2.60 0.18 0.027 1.31 3.85 8.21 6. June 1.719 2.152 R1.344 3.01 R5.516 7.39 2.59 0.19 0.27 1.06 4.02 8.13 R7. August 1.831 2.148 R1.343 3.13 R5.635 7.48 2.07 0.19 0.28 0.91 3.92 7.37 R7. September 1.681 2.071 R1.348 3.31 R5.410 6.90 1.61 0.18 0.027 1.11 3.77 6.95 R6. October 1.635 2.151 R1.382 3.19 R5.486 6.62 1.65 0.19 0.28 1.31 3.98 7.40 R6. November 1.634 2.113 R1.371 3.06 R5.424 6.81 1.69 0.18 0.025 1.51 3.96 7.759 R6. December 1.587 2.119 R1.413 3.06 R5.426 7.47 2.03 0.19 0.26 1.34 4.17 7.99 R6. Total 20.008 24.991 R1.5768 3.532 R64.298 8.268 2.561 2.21 3.07 1.595 4.614 9.298 R81. April 1.687 RE 1.936 RE 1.313 2.79 R5.501 6.566 1.66 0.17 0.27 1.33 3.59 702 R6. March 1.676 RE 2.168 RE 1.430 3.04 R5.577 7.66 2.06 0.19 0.029 1.71 3.95 8.99 R6. April 1.687 RE 2.169 RE 1.482 3.25 R5.604 5.91 2.39 0.18 0.34 1.79 3.96 8.97 R7. April 1.687 RE 2.168 RE 1.313 2.79 R5.501 6.566 1.66 0.17 0.27 1.33 3.59 702 R6. April 1.687 RE 2.168 RE 1.313 3.29 R5.595 7.74 2.39 0.18 0.34 1.69 3.96 8.49 R7. April 1.687 RE 2.168 RE 1.479 3.22 R5.737 6.54 2.31 0.18 0.34 1.69 3.96 8.49 R7. April 1.687 RE 2.168 RE 1.503 3.39 R5.599 7.14 2.46 0.18 0.40 1.49 4.00 857 R7. June 1.609 RE 2.148 RE 1.503 3.39 R5.599 7.14 2.46 0.18 0.40 0.19 0.39 1.48 4.00 8.57 R7. June 1.609 RE 2.148 RE 1.503 3.39 R5.599 7.14 2.46 0.18 0.04 0.09 0.09 3.90 7.07 R7. September 1.698 RE 2.206 RE 1.549 3.48 R5.801 7.08 1.51 0.18 0.39 1.09 3.90 7.07 R7. September 1.698 RE 2.206 RE 1.549 3.48 R5.801 7.08 1.51 0.18 0.39 1.09 3.90 7.07 R7. September 1.698 RE 2.206 RE 1.549 3.48 R5.801 7.08 1.51 0.18 0.39 1.09 3.90 7.07 R7. September 1.698 RE 2.206 RE 1.549 3.48 R5.801 7.08 1.51 0.18 0.39 1.09 3.90 7.07 R7. September 1.664 E 2.245 E 1.560 3.42	2012 January	1.935 1.747 1.745 1.575 1.662 1.665 1.757 1.848 1.664 1.732 1.714	2.095 1.922 2.062 1.990 2.065 1.986 2.105 2.094 2.039 2.111 2.046 2.095	1.106 1.053 1.132 1.096 1.140 1.088 1.149 1.136 1.144 1.248 1.226 1.273	.272 .256 .272 .263 .273 .258 .266 .271 .272 .286 .280	5.409 4.979 5.212 4.923 5.141 4.996 5.277 5.349 5.119 5.378 5.265 5.276	.758 .669 .647 .585 .651 .683 .724 .729 .676 .626 .594	.220 .193 .247 .250 .273 .254 .252 .219 .168 .157 .178	.017 .016 .018 .017 .018 .017 .018 .018 .018	.017 .016 .018 .018 .020 .020 .021 .020 .020 .020 .019	.130 .105 .133 .121 .119 .114 .084 .081 .084 .120 .111	.388 .363 .377 .358 .376 .367 .368 .375 .356 .363 .353	.772 .693 .792 .765 .806 .772 .743 .712 .644 .678 .683	77.986 6.939 6.341 6.651 6.273 6.597 6.451 6.744 6.791 6.439 6.681 6.543 6.761 79.212
February 1.532 RE 1.936 RE 1.313 2.79 R 5.061 .656 .166 .017 .027 .133 .359 .702 R 6. March 1.768 RE 2.168 RE 1.479 .322 R 5.737 .654 .231 .018 .034 .169 .396 .849 R 7. April 1.687 RE 2.110 RE 1.482 .325 R 5.604 .591 .239 .018 .036 .178 .386 .857 R7. May 1.702 RE 2.209 RE 1.542 .332 R 5.785 .660 .252 .019 .039 .148 .400 .857 R7. July 1.715 RE 2.245 RE 1.562 .352 R 5.874 .754 .231 .018 .039 .115 .415 .819 R7. August 1.774 RE 2.245 RE 1.572 .355 R 5.976 .745 .188 .018 .040 .097 .408 .751 R7. <tr< td=""><td>February March April May June July August September October November December</td><td>1.577 1.720 1.601 1.693 1.647 1.719 1.831 1.681 1.635 1.634 1.587</td><td>1.891 2.086 2.037 2.107 2.030 2.152 2.148 2.071 2.151 2.113 2.119</td><td>1.153 R 1.290 1.281 1.310 1.260 R 1.344 R 1.343 R 1.348 R 1.382 R 1.371 R 1.413</td><td>.259 .286 .280 .294 .283 .301 .313 .311 .319 .306</td><td>R 4.881 5.382 5.200 5.404 5.221 R 5.516 R 5.635 R 5.410 R 5.486 R 5.424</td><td>.644 .660 .595 .659 .696 .739 .748 .690 .662 .681</td><td>.195 .197 .236 .272 .260 .259 .207 .161 .165 .169</td><td>.017 .019 .018 .018 .018 .019 .019 .018 .019</td><td>.021 .025 .025 .026 .027 .027 .028 .027 .028 .025 .026</td><td>.132 .149 .165 .155 .131 .106 .091 .111 .131 .151</td><td>.339 .381 .365 .386 .385 .402 .392 .377 .398 .396 .417</td><td>.705 .770 .808 .857 .821 .813 .737 .695 .740 .759</td><td>6.855 R 6.230 6.812 6.603 6.920 6.738 R 7.069 R 7.119 R 6.795 R 6.888 R 6.864 R 6.971 R 81.865</td></tr<>	February March April May June July August September October November December	1.577 1.720 1.601 1.693 1.647 1.719 1.831 1.681 1.635 1.634 1.587	1.891 2.086 2.037 2.107 2.030 2.152 2.148 2.071 2.151 2.113 2.119	1.153 R 1.290 1.281 1.310 1.260 R 1.344 R 1.343 R 1.348 R 1.382 R 1.371 R 1.413	.259 .286 .280 .294 .283 .301 .313 .311 .319 .306	R 4.881 5.382 5.200 5.404 5.221 R 5.516 R 5.635 R 5.410 R 5.486 R 5.424	.644 .660 .595 .659 .696 .739 .748 .690 .662 .681	.195 .197 .236 .272 .260 .259 .207 .161 .165 .169	.017 .019 .018 .018 .018 .019 .019 .018 .019	.021 .025 .025 .026 .027 .027 .028 .027 .028 .025 .026	.132 .149 .165 .155 .131 .106 .091 .111 .131 .151	.339 .381 .365 .386 .385 .402 .392 .377 .398 .396 .417	.705 .770 .808 .857 .821 .813 .737 .695 .740 .759	6.855 R 6.230 6.812 6.603 6.920 6.738 R 7.069 R 7.119 R 6.795 R 6.888 R 6.864 R 6.971 R 81.865
	February March April May June July August September October November 11-Month Total	1.532 1.768 1.687 1.702 1.609 1.715 1.774 1.698 1.709 1.641 18.524	RE 1,936 RE 2.168 RE 2.110 RE 2.209 RE 2.148 RE 2.245 RE 2.275 RE 2.206 RE 2.294 E 2.245 E 23.992	RE 1.313 RE 1.479 RE 1.482 RE 1.542 RE 1.503 RE 1.562 RE 1.572 RE 1.549 E 1.627 E 1.627	.279 .322 .325 .332 .339 .352 .355 .348 .360 .342 3.659	R 5.061 R 5.737 R 5.604 R 5.785 R 5.599 R 5.874 R 5.976 R 5.801 R 5.990 5.799 62.803	.656 .654 .591 .660 .714 .754 .745 .708 .654 .683	.166 .231 .239 .252 .246 .231 .188 .151 .162 .177	.017 .018 .018 .019 .018 .018 .018 .018 .018	.027 .034 .036 .039 .040 .039 .040 .039 .038 .034	.133 .169 .178 .148 .149 .115 .097 .109 .138 .181	.359 .396 .386 .400 .405 .415 .408 .390 .403 .398 4.350	.702 .849 .857 .857 .853 .819 .751 .707 .760 .809	R 7.162 R 6.419 R 7.240 R 7.052 R 7.302 R 7.166 R 7.447 R 7.472 R 7.472 R 7.404 7.290 79.171

 ^a Most data are estimates. See Tables 10.1–10.2c for notes on series components and estimation; and see Note, "Renewable Energy Production and Consumption," at end of Section 10.
 ^b Beginning in 1989, includes waste coal supplied. Beginning in 2001, also includes a small amount of refuse recovery. See Table 6.1.
 ^c Includes lease condensate.
 ^d Natural gas plant liquids.
 ^e Conventional hydroelectric power.

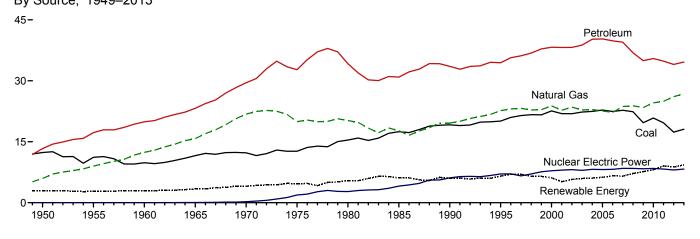
R=Revised. E=Estimate. NA=Not available. (s)=Less than 0.5 trillion Btu. Notes: • See "Primary Energy Production" in Glossary. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

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

Sources: See end of section.

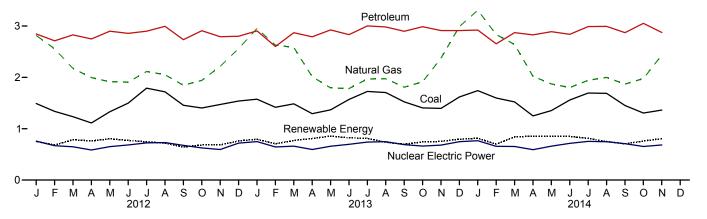
Figure 1.3 Primary Energy Consumption (Quadrillion Btu)

By Source, a 1949–2013

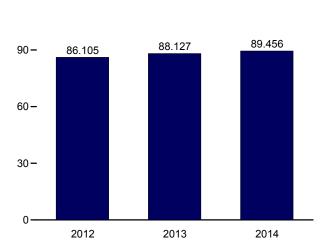


By Source,^a Monthly

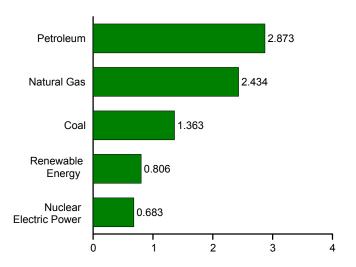
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Total, January–November



By Source,^a November 2014



^a Small quantities of net imports of coal coke and electricity are not shown. Web Page: http://www.eia.gov/totalenergy/data/monthly/#summary. Source: Table 1.3.

Table 1.3 Primary Energy Consumption by Source

(-1.5	aariiiori	/										
		Fossi	Fuels					Renewable	e Energy ^a			
	Coal	Natural Gas ^b	Petro- leum ^c	Total ^d	Nuclear Electric Power	Hydro- electric Power ^e	Geo- thermal	Solar/ PV	Wind	Bio- mass	Total	Total ^f
1950 Total	12.347	5.968	13.315	31.632	0.000	1.415	NA	NA	NA	1.562	2.978	34.616
1955 Total	11.167	8.998	17.255	37.410	.000	1.360	NA	NA	NA	1.424	2.784	40.208
1960 Total	9.838	12.385	19.919	42.137	.006	1.608	(s)	NA	NA	1.320	2.928	45.086
1965 Total	11.581	15.769	23.246	50.577	.043	2.059	.002	NA	NA	1.335	3.396	54.015
1970 Total	12.265 12.663	21.795 19.948	29.521 32.732	63.522 65.357	.239 1.900	2.634 3.155	.006 .034	NA NA	NA NA	1.431 1.499	4.070 4.687	67.838 71.965
1975 Total 1980 Total	15.423	20.235	34.205	69.828	2.739	2.900	.053	NA NA	NA NA	2.475	5.428	71.965 78.067
1985 Total	17.478	17.703	30.925	66.093	4.076	2.970	.097	(s)	(s)	3.016	6.084	76.392
1990 Total	19.173	19.603	33.552	72.332	6.104	3.046	.171	.059	.029	2.735	6.041	84.485
1995 Total	20.089	22.671	34.441	77.262	7.075	3.205	.152	.069	.033	3.101	6.560	91.032
2000 Total	22.580	23.824	38.266	84.735	7.862	2.811	.164	.066	.057	3.008	6.106	98.819
2001 Total	21.914	22.773	38.190	82.906	8.029	2.242	.164	.064	.070	2.622	5.163	96.172
2002 Total	21.904	23.510	38.226	83.700	8.145	2.689	.171	.063	.105	2.701	5.729	97.647
2003 Total	22.321	22.831	38.790	83.992	7.960	2.793	.173	.062	.113	2.807	5.948	97.922
2004 Total	22.466	22.923	40.227	85.754	8.223	2.688	.178	.063	.142	3.010	6.081	100.096
2005 Total 2006 Total	22.797 22.447	22.565 22.239	40.303 39.824	85.709 84.570	8.161 8.215	2.703 2.869	.181 .181	.063 .068	.178 .264	3.117 3.267	6.242 6.649	100.196 99.497
2007 Total	22.749	23.663	39.491	85.928	8.459	2.446	.186	.076	.341	3.492	6.541	101.034
2008 Total	22.387	23.843	36.907	83.178	8.426	2.511	.192	.089	.546	3.865	7.202	98.919
2009 Total	19.691	23.416	34.959	78.042	8.355	2.669	.200	.098	.721	3.950	7.638	94.152
2010 Total	20.834	24.575	35.489	80.891	8.434	2.539	.208	.126	.923	4.285	8.081	97.496
2011 Total	19.658	24.955	34.824	79.447	8.269	3.103	.212	.171	1.168	4.420	9.074	96.917
2012 January	1.491	2.817	2.846	7.156	.758	.220	.017	.017	.130	.367	.751	8.676
February	1.338	2.556	2.712	6.606	.669	.193	.016	.016	.105	.351	.681	7.966
March	1.233	2.174 1.995	2.827 2.748	6.236 5.861	.647 .585	.247 .250	.018 .017	.018 .018	.133 .121	.370	.785 .761	7.678 7.220
April	1.112 1.329	1.995	2.746	6.142	.565 .651	.250	.017	.020	.121	.354 .373	.803	7.220
May June	1.498	1.908	2.856	6.262	.683	.254	.017	.020	.114	.367	.772	7.731
July	1.790	2.114	2.899	6.803	.724	.252	.018	.021	.084	.369	.744	8.290
August	1.718	2.052	2.994	6.764	.729	.219	.018	.020	.081	.380	.718	8.229
September	1.456	1.845	2.734	6.034	.676	.168	.018	.020	.084	.355	.643	7.366
October	1.403	1.941	2.908	6.249	.626	.157	.018	.020	.120	.368	.683	7.570
November	1.472	2.215	2.792	6.476	.594	.178	.018	.019	.111	.358	.684	7.767
December	1.539	2.559	2.801	6.898	.719	.219	.019	.019	.138	.369	.763	8.392
Total	17.378	26.089	34.016	77.487	8.062	2.629	.212	.227	1.340	4.379	8.786	94.496
2013 January	1.575 ^R 1.417	2.951 2.630	2.906 2.601	^R 7.431 ^R 6.649	.748 .644	.239 .195	.019 .017	.022 .021	.139 .132	.374 .340	.793 .706	^R 8.986 ^R 8.012
February March	1.484	2.583	2.870	6.934	.660	.195	.017	.021	.132	.340	.706	8.379
April	R 1.292	2.013	2.789	6.093	.595	.236	.018	.025	.165	.367	.810	7.509
May	R 1.368	1.794	2.923	R 6.085	.659	.272	.018	.026	.155	.386	.857	R 7.616
June	1.570	1.782	2.833	6.182	.696	.260	.018	.027	.131	.387	.823	R 7.718
July	R 1.726	1.969	3.002	6.696	.739	.259	.019	.027	.106	.401	.812	^R 8.265
August	1.705	1.974	2.981	6.658	.748	.207	.019	.028	.091	.391	.735	8.160
September	1.523 R 1.405	1.809	2.898	6.229	.690	.161	.018	.027	.111	.381	.699	7.633
October November	1.395	1.913 2.374	2.986 2.912	^R 6.303 6.679	.662 .681	.165 .169	.019 .018	.028 .025	.131 .151	.401 .391	.743 .754	^R 7.721 ^R 8.127
December	R 1.618	2.989	2.912	R 7.516	.747	.203	.018	.025	.131	.413	.795	R 9.071
Total	R 18.079	26.780	34.613	R 79.454	8.268	2.561	.221	.307	1.595	4.613	9.298	R 97.199
2014 January	1.741	R 3.307	2.921	R 7.968	.766	.206	.019	.029	.171	.388	.812	R 9.558
February	1.597	R 2.833	2.652	R 7.081	.656	.166	.017	.027	.133	.356	.699	R 8.446
March	1.522	R 2.640	2.871	R 7.033	.654	.231	.018	.034	.169	.387	.840	R 8.537
April	1.249	R 2.020	2.828	R 6.096	.591	.239	.018	.036	.178	.383	.854	R 7.551
May	1.354 1.558	^R 1.871 ^R 1.802	2.890 2.839	^R 6.113 ^R 6.198	.660 .714	.252 .246	.019 .018	.039 .040	.148 .149	.399 .395	.856 .848	^R 7.643 ^R 7.774
June	R 1.695	R 1.942	2.839	R 6.624	.714 .754	.246	.018	.040	.149	.395	.848 .812	R 8.206
July August	R 1.689	R 1.998	2.992	R 6.676	.745	.188	.018	.039	.097	.408	.751	R 8.190
September	1.452	R 1.869	2.871	R 6.189	.708	.151	.018	.039	.109	.387	.705	R 7.618
October	R 1.305	R 1.976	3.052	R 6.332	.654	.162	.018	.038	.138	.404	.760	R 7.759
November	1.363	2.434	2.873	6.669	.683	.177	.018	.034	.181	.395	.806	8.174
11-Month Total	16.525	24.694	31.778	72.978	7.584	2.249	.200	.396	1.590	4.310	8.745	89.456
2013 11-Month Total 2012 11-Month Total	16.460 15.840	23.791 23.530	31.702 31.215	71.938 70.588	7.521 7.343	2.358 2.410	.202 .193	.281 .208	1.461 1.202	4.200 4.010	8.503 8.023	88.127 86.105

^a Most data are estimates. See Tables 10.1–10.2c for notes on series components and estimation; and see Note, "Renewable Energy Production and Consumption," at end of Section 10.

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

^c Petroleum products supplied, including natural gas plant liquids and crude oil burned as fuel. Does not include biofuels that have been blended with petroleum—biofuels are included in "Biomass."

^d Includes coal coke net imports. See Tables 1.4a and 1.4b.

^e Conventional hydroelectric power.

e Conventional hydroelectric power.

f Includes coal coke net imports and electricity net imports, which are not separately displayed. See Tables 1.4a and 1.4b.

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

Notes: • See "Primary Energy Consumption" in Glossary.

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

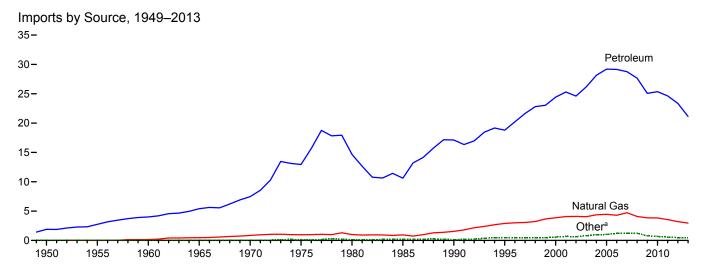
Geographic coverage is the 50 states and the District of Columbia.

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

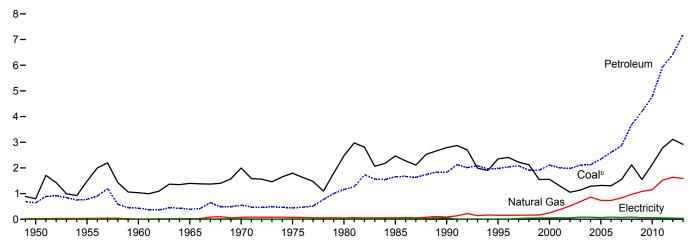
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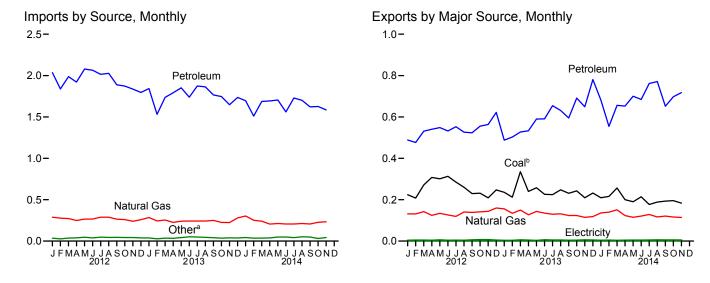
Sources: See end of section.

Figure 1.4a Primary Energy Imports and Exports



Exports by Source, 1949–2013



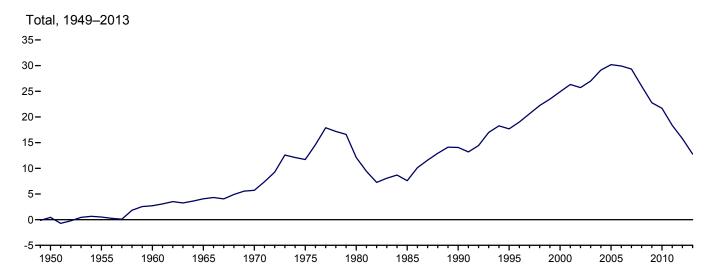


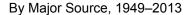
^a Coal, coal coke, biofuels, and electricity.

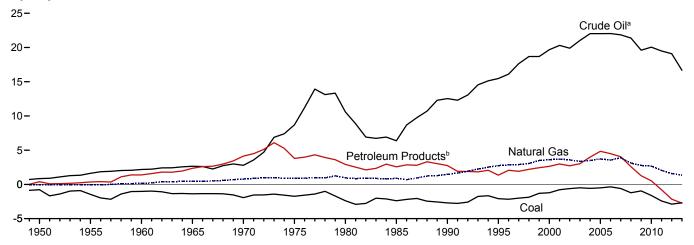
^b Includes coal coke.

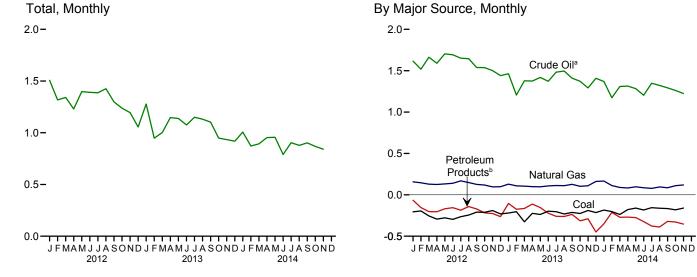
Web Page: http://www.eia.gov/totalenergy/data/monthly/#summary. Sources: Tables 1.4a and 1.4b.

Figure 1.4b Primary Energy Net Imports









^a Crude oil and lease condensate. Includes imports into the Strategic Petroleum Reserve, which began in 1977.

blending components. Does not include biofuels.

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

Sources: Tables 1.4a and 1.4b.

^b Petroleum products, unfinished oils, pentanes plus, and gasoline

Table 1.4a Primary Energy Imports by Source

					Imports				
					Petroleum				
	Coal	Coal Coke	Natural Gas	Crude Oil ^a	Petroleum Products ^b	Total	Biofuelsc	Electricity	Total
1950 Total	0.009	0.011	0.000	1.056	0.830	1.886	NA	0.007	1.913
1955 Total	.008	.003	.011	1.691	1.061	2.752	NA	.016	2.790
1960 Total	.007	.003	.161	2.196	1.802	3.999	NA	.018	4.188
1965 Total	.005	.002	.471	2.654	2.748	5.402	NA	.012	5.892
1970 Total	.001	.004	.846	2.814	4.656	7.470	NA	.021	8.342
1975 Total	.024	.045	.978	8.721	4.227	12.948	NA	.038	14.032
1980 Total	.030	.016	1.006	11.195	3.463	14.658	NA	.085	15.796
1985 Total	.049	.014	.952	6.814	3.796	10.609	NA	.157	11.781
1990 Total	.067	.019	1.551	12.766	4.351	17.117	NA	.063	18.817
1995 Total	.237	.095	2.901	15.669	3.131	18.800	.001	.146	22.180
2000 Total	.313	.094	3.869	19.783	4.641	24.424	(s)	.166	28.865
2001 Total	.495	.063	4.068	20.348	4.946	25.294	.002	.131	30.052
2002 Total	.422	.080	4.104	19.920	4.677	24.597	.002	.125	29.331
2003 Total	.626	.068	4.042	21.060	5.105	26.165	.002	.104	31.007
2004 Total	.682	.170	4.365	22.082	6.063	28.145	.013	.117	33.492
2005 Total	.762	.088	4.450	22.091	7.108	29.198	.012	.150	34.659
2006 Total	.906	.101	4.291	22.085	7.054	29.139	.066	.146	34.649
2007 Total	.909	.061	4.723	21.914	6.842	28.756	.055	.175	34.679
2008 Total	.855	.089	4.084	21.448	6.214	27.662	.085	.195	32.970
2009 Total	.566	.009	3.845	19.699	5.367	25.066	.027	.178	29.690
2010 Total	.484	.030	3.834	20.140	5.219	25.359	.004	.154	29.866
2011 Total	.327	.035	3.555	19.595	5.038	24.633	.019	.178	28.748
2012 January	.018	.003	.288	1.630	.406	2.036	(s)	.014	2.360
February	.012	.002	.277	1.531	.307	1.838	(s)	.012	2.142
March	.016	.004	.272	1.676	.311	1.988	.002	.014	2.295
April	.014	.007	.249	1.597	.325	1.922	.001	.017	2.210
May	.023	.004	.265	1.718	.361	2.079	.002	.019	2.391
June	.017	.001	.266	1.700	.364	2.065	.004	.018	2.370
July	.021	.001	.288	1.665	.351	2.016	.004	.023	2.353
August	.015	.001	.288	1.656	.371	2.027	.007	.022	2.360
September	.020	.002	.264	1.550	.338	1.888	.007	.017	2.198
October	.020	.001	.260	1.549	.323	1.873	.007	.015	2.175
November	.018	.001	.240	1.513	.323	1.836	.007	.016	2.119
December	.017	.002	.258	1.453	.342	1.795	.005	.015	2.092
Total	.212	.028	3.216	19.239	4.122	23.361	.045	.202	27.065
2013 January	.015	(s)	.285	1.482	.361	1.843	.003	.017	2.163
February	.009	.001	.243	1.227	.304	1.531	.001	.016	1.802
March	.009	(s)	.254	1.397	.340	1.737	.006	.018	2.024
April	.016	(s)	.226	1.399	.393	1.792	.003	.016	2.053
May	.020	.001	.240	1.442	.410	1.852	.004	.019	2.136
June	.028	(s)	.243	1.394	.345	1.739	.007	.020	2.037
July	.020	(s)	.242	1.501	.373	1.874	.007	.022	2.166
August	.017	.001	.242 .250	1.509 1.429	.354 .337	1.863	.008 800.	.022 .018	2.152
September	.019	(s)	.250			1.766			2.061
October	.017 .020	(s) (s)	.226	1.393 1.336	.353 .313	1.746	.008 .010	.017	2.013 1.919
November December	.020		.224	1.448	.288	1.648 1.736	.010	.018 .017	2.060
Total	.208	(s) . 003	2.955	16.957	4.170	21.127	.075	.217	24.586
2014 January	.025	(a)	.303	1 412	.284	1.697	.001	.017	2.043
2014 January		(s)		1.413	.284 .299				2.043 1.790
February	.014 .019	(s)	.252 .240	1.212 1.353	.299	1.510 1.687	.001 .002	.014 .017	1.790 1.965
March	.019	(s)	.240	1.361	.334	1.693	.002	.017	1.965
April	.022	(s)	.206	1.335	.370	1.705	.002	.015	1.969
May	.030	(s) .001	.212	1.335	.370	1.705	.005	.017	1.969
June	.031		.207	1.272	.289	1.729	.002	.017	1.818
July	.022	(s)	.206 .212	1.420	.309	1.729	.003	.020	1.980
August	.026 .027	(s)	.212 .207	1.392 1.354	.309	1.701 1.621	.003	.021	1.963 1.876
September	.027	(s) .001	.207	1.354	.268 .298	1.627	.002	.019	1.876
October November	.023	.001 (s)	.233	1.320	.274	1.585	.005	.017	1.867
11-Month Total	.023 .251	. 002	.233 2.503	1.312 14.751	.274 3.365	18.116	.005 .029	.019 .192	21.093
2013 11-Month Total 2012 11-Month Total	.190 .195	.003 .026	2.675 2.958	15.509 17.786	3.882 3.780	19.391 21.566	.065 .041	.200 .187	22.525 24.973

 ^a Crude oil and lease condensate. Includes imports into the Strategic Petroleum Reserve, which began in 1977.
 ^b Petroleum products, unfinished oils, pentanes plus, and gasoline blending components. Does not include biofuels.
 ^c Fuel ethanol (minus denaturant) and biodiesel. NA=Not available. (s)=Less than 0.5 trillion Btu. Notes:
 See "Primary Energy" in Glossary.
 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/#summary (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Sources: See end of section.

Table 1.4b Primary Energy Exports by Source and Total Net Imports

					Exports					Net Imports ^a
					Petroleum					
	Coal	Coal Coke	Natural Gas	Crude Oil ^b	Petroleum Products ^c	Total	Biofuelsd	Electricity	Total	Total
1950 Total	0.786	0.010	0.027	0.202	0.440	0.642	NA	0.001	1.465	0.448
1955 Total	1.465	.013	.032	.067	.707	.774	NA	.002	2.286	.504
1960 Total	1.023 1.376	.009 .021	.012 .027	.018 .006	.413 .386	.431 .392	NA NA	.003 .013	1.477 1.829	2.710 4.063
1965 Total 1970 Total	1.936	.021	.027	.029	.520	.549	NA NA	.013	2.632	5.709
1975 Total	1.761	.032	.074	.012	.427	.439	NA NA	.017	2.323	11.709
1980 Total	2.421	.051	.049	.609	.551	1.160	NA NA	.014	3.695	12.101
1985 Total	2.438	.028	.056	.432	1.225	1.657	NA	.017	4.196	7.584
1990 Total	2.772	.014	.087	.230	1.594	1.824	NA	.055	4.752	14.065
1995 Total	2.318	.034	.156	.200	1.776	1.976	NA	.012	4.496	17.684
2000 Total	1.528	.028	.245	.106	2.003	2.110	NA (=)	.051	3.962	24.904
2001 Total 2002 Total	1.265 1.032	.033 .020	.377 .520	.043 .019	1.956 1.963	1.999 1.982	(s) (s)	.056 .054	3.731 3.608	26.321 25.722
2003 Total	1.032	.020	.686	.026	2.083	2.110	.001	.082	4.013	26.994
2004 Total	1.253	.033	.862	.057	2.068	2.125	.001	.078	4.351	29.141
2005 Total	1.273	.043	.735	.067	2.276	2.344	.001	.065	4.462	30.197
2006 Total	1.264	.040	.730	.052	2.554	2.606	.005	.083	4.727	29.921
2007 Total	1.507	.036	.830	.058	2.803	2.861	.036	.069	5.338	29.341
2008 Total	2.071	.049	.972	.061	3.626	3.686	.089	.083	6.949	26.021
2009 Total	1.515 2.101	.032 .036	1.082 1.147	.093 .088	4.101 4.691	4.194 4.780	.035 .047	.062 .065	6.920 8.176	22.770 21.690
2010 Total 2011 Total	2.751	.024	1.519	.100	5.829	5.929	.108	.051	10.382	18.366
2012 January	.224	.001	.132	.014	.471	.485	.008	.003	.853	1.507
February	.208	.002	.131	.012	.461	.474	.007	.003	.824	1.317
March	.271	.002	.142	.013	.514	.527	.008	.004	.954	1.341
April	.308	.001	.124	.007	.529	.536	.007	.004	.981	1.230
May	.301	.003	.134	.015	.530	.545	.007	.004	.993	1.398
June	.313	.001	.126	.008	.520	.528	.007	.004	.979	1.391
July	.285	.001	.119	.014	.536	.549	.008	.003	.967	1.386
August September	.260 .229	.001 .003	.141 .139	.011 .012	.513 .509	.524 .520	.006 .006	.003 .003	.934 .900	1.425 1.298
October	.231	.003	.141	.012	.541	.553	.006	.003	.938	1.238
November	.209	.004	.144	.013	.548	.561	.004	.003	.924	1.194
December	.247	.002	.160	.013	.606	.618	.005	.004	1.036	1.056
Total	3.087	.024	1.633	.143	6.277	6.420	.078	.041	11.284	15.781
2013 January	.236	.001	.156	.020	.465	.484	.005	.003	.885	1.278
February	.212	.001 .003	.134 .150	.021 .019	.479 .505	.500 .524	.004 .005	.003 .003	.854 1.021	.948 1.003
March April	.336 .240	.003	.127	.024	.505	.524	.005	.003	.907	1.146
May	.258	(s)	.143	.023	.563	.587	.006	.003	.998	1.138
June	.226	.003	.135	.022	.567	.588	.006	.003	.961	1.075
July	.225	.002	.130	.019	.632	.651	.005	.003	1.016	1.150
August	.248	.002	.131	.013	.615	.628	.008	.003	1.021	1.131
September	.231	.001	.124	.018	.574	.592	.007	.003	.958	1.103
October	.242 .209	.001 .003	.124	.021 .044	.666	.688 .646	.006	.003	1.065	.948 .934
November December	.232	.003	.115 .118	.044	.602 .738	.777	.010 .008	.003	.986 1.142	.919
Total	2.895	.021	1.587	.284	6.911	7.195	.076	.039	11.812	12.774
2014 January	.210	.001	.136	.044	.633	.677	.008	.004	1.036	1.007
February	.216	.002	.140	.039	.511	.550	.006	.004	.918	.872
March	.257	.001	.151	.044	.605	.649	.008	.007	1.072	.893
April		.001	.123	.047	.601	.648	.007	.005	.984	.954
May		.002 .002	.115 .121	.052 .069	.645 .612	.697 .681	.005 .006	.003 .004	1.013 1.028	.956 .790
June July		.002	.121	.069	.686	.758	.006	.004	1.028	.903
August		.002	.116	.072	.698	.768	.007	.004	1.076	.878
September	.193	.003	.121	.061	.588	.649	.005	.003	.974	.902
October	.195	.002	.116	.068	.627	.695	.007	.003	1.018	.868
November	.184	.002	.114	.087	.627	.715	.008	.003	1.026	.841
11-Month Total	2.224	.020	1.382	.652	6.834	7.487	.074	.042	11.229	9.864
2013 11-Month Total 2012 11-Month Total	2.663 2.840	.019 .022	1.468 1.473	.244 .131	6.174 5.672	6.418 5.802	.068 .072	.035 .037	10.671 10.248	11.855 14.725

Notes: • See "Primary Energy" in Glossary. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states

and the District of Columbia.

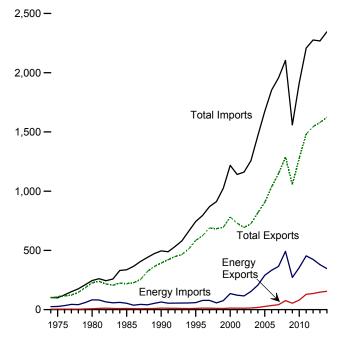
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#summary (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Sources: See end of section.

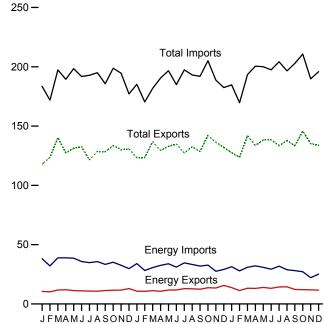
a Net imports equal imports minus exports.
 b Crude oil and lease condensate.
 c Petroleum products, unfinished oils, pentanes plus, and gasoline blending components. Does not include biofuels.
 d Through 2010, data are for biodiesel only. Beginning in 2011, data are for fuel ethanol (minus denaturant) and biodiesel.
 NA=Not available. (s)=Less than 0.5 trillion Btu.

Figure 1.5 Merchandise Trade Value (Billion Dollars^a)



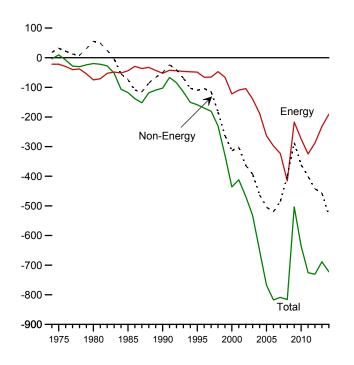


Imports and Exports, Monthly



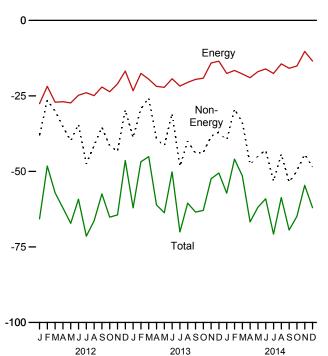
2013

Trade Balance, 1974-2014



Trade Balance, Monthly

2012



^a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary. http://www.eia.gov/totalenergy/data/monthly/#summary. Source: Table 1.5.

Table 1.5 Merchandise Trade Value

(Million Dollarsa)

		,					1	1			
		Petroleumb	1		Energy ^C	Г	Non- Energy	Total Merchandise			
	Exports	Imports	Balance	Exports	Imports	Balance	Balance	Exports	Imports	Balance	
1974 Total	792	24,668	-23,876	3,444	25,454	-22,010	18,126	99,437	103,321	-3,884	
1975 Total	907	25,197	-24,289	4,470	26,476	-22,006	31,557	108,856	99,305	9,551	
1980 Total	2,833	78,637	-75,803	7,982	82,924	-74,942	55,246	225,566	245,262	-19,696	
1985 Total	4,707	50,475	-45,768	9,971	53,917	-43,946	-73,765	218,815	336,526	-117,712	
1990 Total	6,901	61,583	-54,682	12,233	64,661	-52,428	-50,068	393,592	496,088	-102,496	
1995 Total	6,321	54,368	-48,047	10,358	59,109	-48,751	-110,050	584,742	743,543	-158,801	
2000 Total	10,192	119,251	-109,059	13,179	135,367	-122,188	-313,916	781,918	1,218,022	-436,104	
2001 Total	8,868	102,747	-93,879	12,494	121,923	-109,429	-302,470	729,100	1,140,999	-411,899	
2002 Total	8,569	102,663	-94,094	11,541	115,748	-104,207	-364,056	693,103	1,161,366	-468,263	
2003 Total	10,209	132,433	-122,224	13,768	153,298	-139,530	-392,820	724,771	1,257,121	-532,350	
2004 Total	13,130	179,266	-166,136	18,642	206,660	-188,018	-462,912	818,775	1,469,704	-650,930	
2005 Total	19,155	250,068	-230,913	26,488	289,723	-263,235	-504,242	905,978	1,673,455	-767,477	
2006 Total	28,171	299,714	-271,543	34,711	332,500	-297,789	-519,515	1,036,635	1,853,938	-817,304	
2007 Total	33,293	327,620	-294,327	41,725	364,987	-323,262	-485,501	1,148,199	1,956,962	-808,763	
2008 Total	61,695	449,847	-388,152	76,075	491,885	-415,810	-400,389	1,287,442	2,103,641	-816,199	
2009 Total	44,509	251,833	-207,324	54,536	271,739	-217,203	-286,379	1,056,043	1,559,625	-503,582	
2010 Total	64,753	333,472	-268,719	80,625	354,982	-274,357	-361,005	1,278,495	1,913,857	-635,362	
2011 Total	^b 102,180	^b 431,866	^b -329,686	128,989	453,839	-324,850	-400,597	1,482,508	2,207,954	-725,447	
2012 January	8,363	36,539	-28,176	10,587	38,155	-27,568	-38,118	117,847	183,533	-65,686	
February	8,370	30,763	-22,393	10,207	32,047	-21,840	-26,377	123,613	171,829	-48,217	
March	9,570	37,642	-28,072	11,782	38,866	-27,084	-30,012	140,254	197,350	-57,096	
April	9,659	37,735	-28,076	11,972	38,898	-26,926	-35,126	127,416	189,468	-62,052	
May	9,222	37,467	-28,245	11,312	38,638	-27,326	-39,852	131,232	198,411	-67,178	
June	8,874	34,680	-25,806	11,019	35,804	-24,785	-34,427	132,577	191,788	-59,212	
July	8,798	33,509	-24,711	10,871	34,833	-23,962	-47,478	121,400	192,840	-71,440	
August	8,866	34,484	-25,618	10,790	35,700	-24,910	-41,465	128,585	194,960	-66,375	
September	9,485	32,275	-22,790	11,295	33,345	-22,050	-35,381	128,254	185,686	-57,431	
October	9,759	33,940	-24,181	11,589	35,193	-23,604	-41,537	133,627	198,768	-65,141	
November	9,932	31,185	-21,253	11,609	32,619	-21,010	-43,375	130,170	194,555	-64,385	
December	11,052	28,290	-17,238	12,999	29,764	-16,765	-29,621	130,728	177,114	-46,386	
Total	111,949	408,509	-296,560	136,032	423,860	-287,828	-442,771	1,545,703	2,276,302	-730,599	
2013 January	8,786	32,448	-23,662	10,756	34,049	-23,293	-38,767	123,130	185,190	-62,060	
February	9,028	26,828	-17,800	10,724	28,256	-17,532	-29,290	123,536	170,358	-46,822	
March	8,909	29,265	-20,356	11,234	30,687	-19,453	-25,640	136,762	181,855	-45,093	
April	8,593	31,204	-22,611	10,677	32,518	-21,841	-39,255	129,465	190,561	-61,096	
May	9,684	32,590	-22,906	11,766	33,916	-22,150	-41,529	133,007	196,686	-63,679	
June	9,845	29,678	-19,833	11,739	31,052	-19,313	-30,822	134,830	184,965	-50,135	
July	10,874	33,328	-22,454	12,887	34,626	-21,739	-48,287	127,358	197,384	-70,026	
August	10,796	32,053	-21,257	12,784	33,283	-20,499	-40,007	132,604	193,110	-60,506	
September	10,468	30,747	-20,279	12,436	31,956	-19,520	-43,933	128,515	191,968	-63,453	
October	11,518	31,590	-20,072	13,641	32,780	-19,139	-43,777	142,182	205,098	-62,916	
November	11,403	26,227	-14,824	13,466	27,560	-14,094	-38,338	136,249	188,681	-52,432	
December	13,466	27,195	-13,729	15,584	29,086	-13,502	-37,007	131,956	182,465	-50,509	
Total	123,368	363,152	-239,784	147,693	379,770	-232,077	-456,651	1,579,593	2,268,321	-688,728	
2014 January	11,565	29,460	-17,895	13,806	31,377	-17,571	-39,622	127,508	184,701	-57,193	
February	8,967	25,663	-16,696	11,303	27,879	-16,576	-29,361	123,728	169,665	-45,937	
March	10,411	29,001	-18,590	13,229	30,959	-17,730	-33,711	141,905	193,346	-51,441	
April	10,371	30,513	-20,142	13,131	32,119	-18,988	-47,712	133,817	200,517	-66,700	
May	11,444	29,206	-17,762	13,900	30,872	-16,972	-44,880	138,225	200,077	-61,852	
June	11,042	27,667	-16,625	13,218	29,278	-16,060	-42,986	138,400	197,446	-59,046	
July	12,144	30,427	-18,283	14,319	31,895	-17,576	-53,186	133,491	204,253	-70,762	
August	12,389	27,569	-15,180	14,467	28,859	-14,392	-44,265	137,878	196,536	-58,657	
September	10,096	26,812	-16,716	12,256	28,113	-15,857	-53,532	133,425	202,814	-69,389	
October	9,889	25,888	-15,999	12,066	27,165	-15,099	-49,808	145,829	210,736	-64,907	
November	10,160	20,743	-10,583	11,878	22,156	-10,278	^R -44,325	^R 135,191	^R 189,794	R -54,603	
December	9,897	23,803	-13,906	11,669	25,132	-13,463	-48,552	133,876	195,892	-62,015	
Total	128,373	326,752	-198,379	155,242	345,802	-190,560	-531,944	1,623,273	2,345,778	-722,504	

components due to independent rounding. • The U.S. import statistics reflect both government and nongovernment imports of merchandise from foreign countries into the U.S. customs territory, which comprises the 50 states, the District of Columbia,

Puerto Rico, and the Virgin Islands.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#summary (Excel and CSV files) for all available annual and monthly data beginning in 1974.

Sources: See end of section.

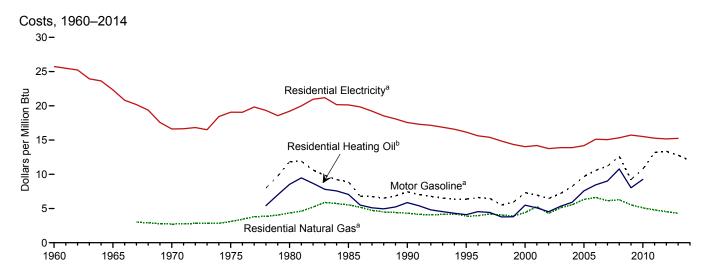
 ^a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.
 ^b Through 2010, data are for crude oil, petroleum preparations, liquefied propane and butane, and other mineral fuels. Beginning in 2011, data are for petroleum products and preparations.

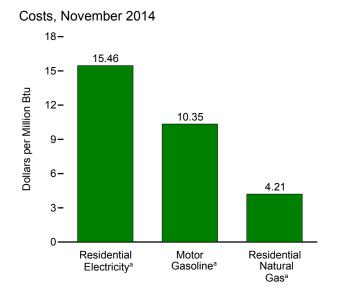
^c Petroleum, coal, natural gas, and electricity.

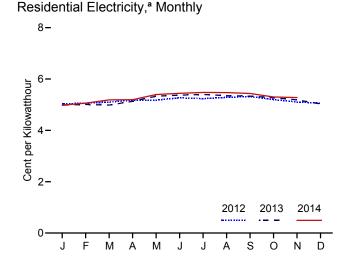
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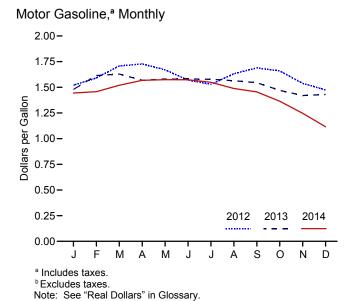
Notes: • Monthly data are not adjusted for seasonal variations. • See Note, "Merchandise Trade Value," at end of section. • Totals may not equal sum of

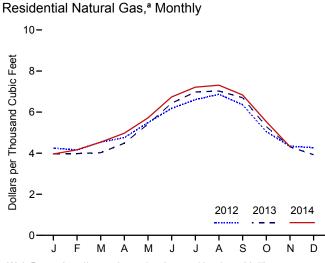
Figure 1.6 Cost of Fuels to End Users in Real (1982-1984) Dollars











Web Page: http://www.eia.gov/totalenergy/data/monthly/#summary. Source: Table 1.6.

Table 1.6 Cost of Fuels to End Users in Real (1982–1984) Dollars

	Consumer Price Index, All Urban Consumers ^a	Motor G	Basoline ^b		dential ng Oil ^c		lential al Gas ^b	Residential Electricity ^b	
	Index 1982–1984=100	Dollars per Gallon	Dollars per Million Btu	Dollars per Gallon	Dollars per Million Btu	Dollars per Thousand Cubic Feet	Dollars per Million Btu	Cents per Kilowatthour	Dollars per Million Btu
1960 Average		NA	NA	NA	NA	NA	NA	8.8	25.74
1965 Average	31.5	NA	NA	NA	NA	NA	NA	7.6	22.33
1970 Average		NA	NA	NA	NA	2.81	2.72	5.7	16.62
1975 Average		NA 4 482	NA 11 05	NA 4 482	NA 8.52	3.18	3.12	6.5	19.07
1980 Average	82.4	1.482 1.112	11.85 8.89	1.182 0.979	8.52 7.06	4.47 5.69	4.36 5.52	6.6 6.87	19.21 20.13
1985 Average 1990 Average	107.6 130.7	0.931	7.44	0.813	5.86	5.69 4.44	4.31	5.99	20.13 17.56
1995 Average	152.4	0.791	6.36	0.569	4.10	3.98	3.87	5.51	16.15
2000 Average		0.908	7.31	0.761	5.49	4.51	4.39	4.79	14.02
2001 Average		0.864	6.96	0.706	5.09	5.44	5.28	4.84	14.20
2002 Average		0.801	6.46	0.628	4.52	4.39	4.28	4.69	13.75
2003 Average	184.0	0.890	7.19	0.736	5.31	5.23	5.09	4.74	13.89
2004 Average	188.9	1.018	8.22	0.819	5.91	5.69	5.55	4.74	13.89
2005 Average	195.3	1.197	9.67	1.051	7.58	6.50	6.33	4.84	14.18
2006 Average	201.6	1.307	10.58	1.173	8.46	6.81	6.63	5.16	15.12
2007 Average	207.342	1.374	11.20	1.250	9.01	6.31	6.14	5.14	15.05
2008 Average		1.541	12.62	1.495	10.78	6.45	6.28	5.23	15.33
2009 Average		1.119	9.21	1.112	8.02	5.66	5.52	5.37	15.72
2010 Average		1.301	10.76	1.283	9.25	5.22	5.11	5.29	15.51
2011 Average	224.939	1.590	13.18	NA	NA	4.90	4.80	5.21	15.27
2012 January		1.521	12.62	NA	NA	4.24	4.14	5.03	14.75
February		1.591	13.20	NA	NA	4.16	4.06	5.06	14.82
March	229.392	1.708	14.17	NA	NA	4.54	4.43	5.10	14.95
April		1.728	14.34	NA	NA	4.76	4.64	5.18	15.18
May		1.670	13.86	NA	NA	5.49	5.35	5.18	15.18
June	229.478	1.570	13.02	NA	NA	6.18	6.03	5.27	15.44
July	229.104	1.529	12.68	NA	NA	6.60	6.44	5.24	15.35
August	230.379	1.632	13.54	NA NA	NA	6.87	6.70	5.28	15.48
September		1.689	14.01	NA NA	NA	6.36 5.05	6.21 4.93	5.32 5.20	15.58
October November		1.660 1.539	13.77 12.76	NA NA	NA NA	4.34	4.93	5.20	15.24 14.96
December		1.475	12.70	NA NA	NA NA	4.27	4.23	5.06	14.83
Average		1.609	13.35	NA NA	NA NA	4.64	4.53	5.17	15.17
2013 January		1.480	12.28	NA	NA	3.97	3.87	4.98	14.60
February		1.614	13.39	NA	NA	3.98	3.87	5.01	14.68
March	232.773	1.629	13.52	NA	NA	4.02	3.91	4.98	14.61
April		1.568	13.01	NA	NA	4.49	4.36	5.13	15.04
May		1.581	13.11	NA	NA	5.41	5.27	5.33	15.63
June		1.582	13.12	NA	NA	6.43	6.26	5.37	15.74
July	233.596	1.578	13.10	NA	NA	6.98	6.79	5.40	15.82
August	233.877	1.564	12.98	NA	NA	7.03	6.83	5.35	15.68
September	234.149	1.544	12.81	NA	NA	6.70	6.52	5.33	15.63
October		1.470	12.20	NA	NA	5.30	5.16	5.27	15.45
November	233.069	1.420	11.78	NA	NA	4.31	4.19	5.19	15.20
December Average	233.049 232.957	1.430 1.538	11.87 12.76	NA NA	NA NA	3.93 4.43	3.82 4.31	5.03 5.20	14.74 15.25
_									
2014 January	233.916	1.444	11.98	NA	NA	R 3.96	R 3.85	4.98	14.60
February		1.458	12.09	NA NA	NA NA	4.16 4.54	4.05 4.41	5.06 5.19	14.83
March		1.519 1.568	12.61 13.01	NA NA	NA NA	4.54 4.97	4.41 R 4.84	5.19 5.19	15.21 15.22
April		1.568	13.01	NA NA	NA NA	4.97 5.72	R 5.56	5.19	15.22
May		1.574	13.05	NA NA	NA NA	6.74	6.55	5.44	15.62
June		1.573	13.05	NA NA	NA NA	6.74 7.21	5.55 7.01	5.44 5.48	16.05
July		1.488	12.35	NA NA	NA NA	7.21	7.01	5.46 5.47	16.03
August	237.052	1.455	12.35	NA NA	NA NA	6.84	6.65	5.44	15.93
September		1.365	12.07	NA NA	NA NA	5.54	5.39	5.44	15.53
October November	237.433	1.247	10.35	NA NA	NA NA	R 4.32	R 4.21	^R 5.28	R 15.46
December		1.247	9.25	NA NA	NA NA	NA	NA	NA	NA
Average	234.612 236.736	1.115 1.447	9.25 12.00	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA

a Data are U.S. ci b Includes taxes. c Excludes taxes. Data are U.S. city averages for all items, and are not seasonally adjusted.

R=Revised. NA=Not available.

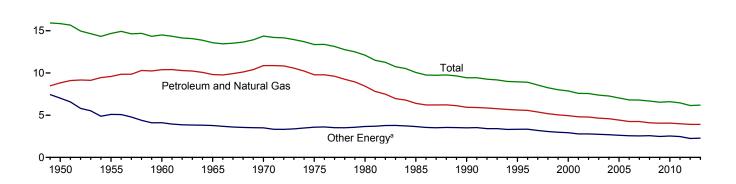
Notes: • See "Real Dollars" in Glossary. • Fuel costs are calculated by using the Urban Consumer Price Index (CPI) developed by the Bureau of Labor Statistics. • Annual averages may not equal average of months due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

January 2015 data for this table were not available in time for publication.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#summary (Excel and CSV files) for all available annual data beginning in 1960 and monthly data beginning in 1995.

Sources: • Fuel Prices: Tables 9.4 (All Grades), 9.8, and 9.10, adjusted by the CPI; and Monthy Energy Review, September 2012, Table 9.8c. • Consumer Price Index, All Urban Consumers: U.S. Department of Labor, Bureau of Labor Statistics, series ID CUUR0000SA0. • Conversion Factors: Tables A1, A3, A4, and A6.

Figure 1.7 Primary Energy Consumption per Real Dollar of Gross Domestic Product, 1949–2013 (Thousand Btu per Chained (2009) Dollar)



Note: See "Real Dollars" in Glossary.

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

Source: Table 1.7.

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Table 1.7 Primary Energy Consumption per Real Dollar of Gross Domestic Product

	E	nergy Consumption	<u> </u>	Gross Domestic	Energy Consumption per Real Dollar of GDP				
	Petroleum and Natural Gas	Other Energy ^a	Total	Product (GDP)	Petroleum and Natural Gas	Other Energy ^a	Total		
		Quadrillion Btu		Billion Chained (2009) Dollars	Thousand	Btu per Chained (200	09) Dollar		
950 955	19.284 26.253	15.332 13.955	34.616 40.208	2,184.0 2,739.0	8.83 9.58	7.02 5.09	15.85 14.68		
960	32.305	12.782	45.086	3,108.7	10.39	4.11	14.50		
965	39.014	15.001	54.015	3,976.7	9.81	3.77	13.58		
970	51.315	16.523	67.838	4,722.0	10.87	3.50	14.37		
975	52.680	19.284	71.965	5,385.4	9.78	3.58	13.36		
980	54.440	23.627	78.067	6,450.4	8.44	3.66	12.10		
985	48.628	27.764	76.392	7,593.8	6.40	3.66	10.06		
990	53.155	31.330	84.485	8,955.0	5.94	3.50	9.43		
995	57.112	33.920	91.032	10,174.8	5.61	3.33	8.95		
000	62.090	36.729	98.819	12,559.7	4.94	2.92	7.87		
001	60.962	35.210	96.172	12,682.2	4.81	2.78	7.58		
002	61.736	35.911	97.647	12,908.8	4.78	2.78	7.56		
003	61.620	36.301	97.922	13,271.1	4.64	2.74	7.38		
004	63.150	36.946	100.096	13,773.5	4.58	2.68	7.27		
005	62.868	37.328	100.196	14,234.2	4.42	2.62	7.04		
006	62.062	37.435	99.497	14,613.8	4.25	2.56	6.81		
007	63.154	37.881	101.034	14,873.7	4.25	2.55	6.79		
800	60.750	38.169	98.919	14,830.4	4.10	2.57	6.67		
009	58.375	35.777	94.152	14,418.7	4.05	2.48	6.53		
010	60.064 59.778	37.432 37.139	97.496	14,783.8	4.06 3.98	2.53 2.47	6.59		
011 012	59.778 60.105	34.392	96.917 94.496	15,020.6 15,369.2	3.98 3.91	2.47	6.45 6.15		
013	61.393	R 35.805	R 97.199	15,710.3	3.91	2.24	6.19		

^a Coal, coal coke net imports, nuclear electric power, renewable energy, and electricity net imports. R=Revised.

Notes: • See "Primary Energy Consumption" and "Real Dollars" in Glossary.

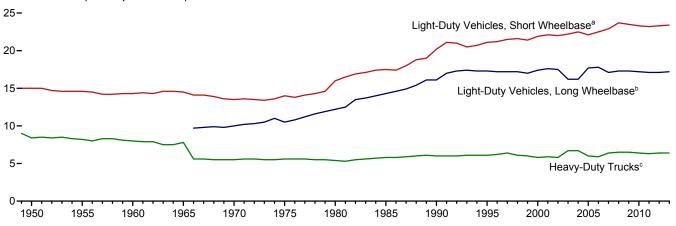
Totals may not equal sum of components due to independent rounding.
 Geographic coverage is the 50 states and the District of Columbia.

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

Sources: • Energy Consumption: Table 1.3. • Gross Domestic Product: U.S. Department of Commerce, Bureau of Economic Analysis, National Income and Product Accounts (January 30, 2015), Table 1.1.6.

Figure 1.8 Motor Vehicle Fuel Economy, 1949–2013

(Miles per Gallon)



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

Source: Table 1.8.

Table 1.8 Motor Vehicle Mileage, Fuel Consumption, and Fuel Economy

	Light-Duty Vehicles, Short Wheelbase ^a			Light-Duty Vehicles, Long Wheelbase ^b			Heavy-Duty Trucks ^c			All Motor Vehicles ^d		
	Mileage	Fuel Consumption	Fuel Economy	Mileage	Fuel Consumption	Fuel Economy	Mileage	Fuel Consumption	Fuel Economy	Mileage	Fuel Consumption	Fuel Economy
	Miles per Vehicle	Gallons per Vehicle	Miles per Gallon	Miles per Vehicle	Gallons per Vehicle	Miles per Gallon	Miles per Vehicle	Gallons per Vehicle	Miles per Gallon	Miles per Vehicle	Gallons per Vehicle	Miles per Gallon
1950	9,060	603	15.0	(^e)	(^e)	(^e)	10,316	1,229	8.4	9,321	725	12.8
1955	9,447	645	14.6	(e)	(e)	(e)	10,576	1,293	8.2	9,661	761	12.7
1960	9,518	668	14.3	(e)	(e)	(e)	10,693	1,333	8.0	9,732	784	12.4
1965	9,603	661	14.5	(e)	(e)	(e)	10,851	1,387	7.8	9,826	787	12.5
1970	9,989	737	13.5	8,676	866	10.0	13,565	2,467	5.5	9,976	830	12.0
1975	9,309	665	14.0	9,829	934	10.5	15,167	2,722	5.6	9,627	790	12.2
1980	8,813	551	16.0	10,437	854	12.2	18,736	3,447	5.4	9,458	712	13.3
1985	9,419	538	17.5	10,506	735	14.3	20,597	3,570	5.8	10,020	685	14.6
1990	10,504	520	20.2	11,902	738	16.1	23,603	3,953	6.0	11,107	677	16.4
1995	11,203	530	21.1	12,018	694	17.3	26,514	4,315	6.1	11,793	700	16.8
2000	11,976	547	21.9	11,672	669	17.4	25,617	4,391	5.8	12,164	720	16.9
2001	11,831	534	22.1	11,204	636	17.6	26,602	4,477	5.9	11,887	695	17.1
2002	12,202	555	22.0	11,364	650	17.5	27,071	4,642	5.8	12,171	719	16.9
2003	12,325	556	22.2	11,287	697	16.2	28,093	4,215	6.7	12,208	718	17.0
2004	12,460	553	22.5	11,184	690	16.2	27,023	4,057	6.7	12,200	714	17.1
2005	12,510	567	22.1	10,920	617	17.7	26,235	4,385	6.0	12,082	706	17.1
2006		554	22.5	10,920	612	17.8	25,231	4,304	5.9	12,017	698	17.2
		^a 468	a 22.9	^b 14,970	ь 877	b 17.1	c 28,290	^c 4,398	6.4	11,915	693	17.2
2008	10,290	435	23.7	15,256	880	17.3	28,573	4,387	6.5	11,631	667	17.4
2009	10,391	442	23.5	15,252	882	17.3	26,274	4,037	6.5	11,631	661	17.6
2010	10,650	456	23.3	15,474	901	17.2	26,604	4,180	6.4	11,866	681	17.4
2011	11,150	481	23.2	12,007	702	17.1	26,054	4,128	6.3	11,652	665	17.5
2012	R 11,262	R 484	23.3	R 11,885	694	17.1	R 25,255	R 3,973	6.4	R 11,707	R 665	17.6
2013 ^P	11,244	480	23.4	11,712	683	17.2	25,952	4,086	6.4	11,679	663	17.6

^a Through 1989, data are for passenger cars and motorcycles. For 1990–2006, data are for passenger cars only. Beginning in 2007, data are for light-duty vehicles (passenger cars, light trucks, vans, and sport utility vehicles) with a wheelbase less than or equal to 121 inches.

wheelbase less than or equal to 121 inches.

^b For 1966–2006, data are for vans, pickup trucks, and sport utility vehicles.
Beginning in 2007, data are for light-duty vehicles (passenger cars, light trucks, vans, and sport utility vehicles) with a wheelbase greater than 121 inches.

^c For 1949–1965, data are for single-unit trucks with 2 axles and 6 or more tires, combination trucks, and other vehicles with 2 axles and 4 tires that are not passenger cars. For 1965–2006, data are for single-unit trucks with 2 axles and 6 or more tires, and combination trucks. Beginning in 2007, data are for single-unit trucks with 2 axles and 6 or more tires (or a gross vehicle weight rating exceeding 10,000 pounds), and combination trucks.

^d Includes buses and motorcycles, which are not separately displayed.

e Included in "Heavy-Duty Trucks."

R=Revised. P=Preliminary.

Note: Geographic coverage is the 50 states and the District of Columbia.

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

Sources: • Light-Duty Vehicles, Short Wheelbase: 1990–1994—U.S.
Department of Transportation, Bureau of Transportation Statistics, National Transportation Statistics 1998, Table 4-13. • All Other Data: 1949–1994—Federal Highway Administration (FHWA), Highway Statistics summary to 1995, Table VM-201A. 1995 forward—FHWA, Highway Statistics, annual reports, Table VM-1.

Table 1.9 Heating Degree-Days by Census Division

	January						Cumulative July through January						
				Percent Change					Percent	Change			
Census Divisions	Normala	2014	2015	Normal to 2015	2014 to 2015	Normala	2014	2015	Normal to 2015	2014 to 2015			
New England Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont	1,246	1,292	1,324	6	2	3,708	3,777	3,582	-3	-5			
Middle Atlantic New Jersey, New York, Pennsylvania	1,158	1,286	1,243	7	-3	3,349	3,448	3,282	-2	-5			
East North Central Illinois, Indiana, Michigan, Ohio, Wisconsin	1,302	1,488	1,312	1	-12	3,774	4,100	3,846	2	-6			
West North Central lowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota	1,390	1,461	1,254	-10	-14	4,085	4,301	3,930	-4	-9			
South Atlantic Delaware, Florida, Georgia, Maryland and the District of Columbia, North Carolina, South Carolina, Virginia, West Virginia	643	748	632	-2	-16	1,726	1,770	1,686	-2	-5			
East South Central Alabama, Kentucky, Mississippi, Tennessee	820	988	815	- <u>-</u> 2	-18	2,230	2,432	2,246	1	-5 -8			
West South Central Arkansas, Louisiana, Oklahoma, Texas	593	627	614	4	-2	1,498	1,674	1,489	-1	-11			
Mountain Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming	951	835	834	-12	(s)	3,098	2,833	2,591	-16	-9			
Pacific ^b California, Oregon, Washington	564	382	421	-25	10	1,817	1,484	1,305	-28	-12			
U.S. Average ^b	917	970	895	-2	-8	2,656	2,713	2,522	-5	-7			

^a "Normal" is based on calculations of data from 1971 through 2000.

(s)=Less than 0.5 percent and greater than -0.5 percent.

Notes: Degree-days are relative measurements of outdoor air temperature Notes: Degree-days are relative measurements of outdoor air temperature used as an index for heating and cooling energy requirements. Heating degree-days are the number of degrees that the daily average temperature falls below 65° F. Cooling degree-days are the number of degrees that the daily average temperature rises above 65° F. The daily average temperature is the mean of the maximum and minimum temperatures in a 24-hour period. For example, a weather station recording an average daily temperature of 40° F would report 25 heating degree-days for that day (and 0 cooling degree-days). If a weather station recorded an average daily temperature of 78° F, cooling degree-days for that station would be 13 (and 0 heating degree days).

Web Pages: • See http://www.eia.gov/totalenergy/data/monthly/#summary for current data. • See http://www.eia.gov/totalenergy/data/annual/#summary

for historical data.

Sources: There are several degree-day databases maintained by the National Oceanic and Atmospheric Administration. The information published here is developed by the National Weather Service Climate Prediction Center, Camp Springs, MD. The data are available weekly with monthly summaries and are based on mean daily temperatures recorded at about 200 major weather stations around the country. The temperature information recorded at those weather stations is used to calculate statewide degree-day averages based on population. The state figures are then aggregated into Census Divisions and into the national average. The population weights currently used represent resident state population data estimated for the 2000 Census by the U.S. Department of Commerce, Bureau of the Census. The data provided here are available sooner than the Historical Climatology Series 5-1 (heating degree-days) developed by the National Climatic Data Center, Asheville, NC, which compiles data from some 8,000 weather stations. There are several degree-day databases maintained by the

b Excludes Alaska and Hawaii.

Table 1.10 Cooling Degree-Days by Census Division

		January				
			Percent Change			
Normal ^a	2014	2015	Normal to 2015	2014 to 2015		
0	0	0	NM	NM		
0	0	0	NM	NM		
0	0	0	NM	NM		
0	0	0	NM	NM		
34	17	25	NM	NM		
8	0	0	NM	NM		
14	1	2	NM	NM		
1	0	0	NM	NM		
2	0	0	NM	NM		
a	3	5	NM	NM		
	0 0 0 0 34 8 14	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 14 17 8 0 0 14 1 1 0 1 1 0 1 1 1 1 1 1 1 1 1 1	Normal ³ 2014 2015 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 14 1 2 1 0 0 2 0 0	Normal ³ 2014 Percent Normal to 2015 0 0 0 NM 34 17 25 NM 8 0 0 NM 14 1 2 NM 1 0 0 NM 2 0 0 NM		

^a "Normal" is based on calculations of data from 1971 through 2000.

NM=Not meaningful (because "Normal" is less than 100 or ratio is incalculable).

Notes: Degree-days are relative measurements of outdoor air temperature used as an index for heating and cooling energy requirements. Cooling degree-days are the number of degrees that the daily average temperature rises above 65° F. Heating degree-days are the number of degrees that the daily average temperature falls below 65° F. The daily average temperature is the mean of the maximum and minimum temperatures in a 24-hour period. For example, if a weather station recorded an average daily temperature of 78° F, cooling degree-days for that station would be 13 (and 0 heating degree-days). A weather station recording an average daily temperature of 40° F would report 25 heating degree-days for that day (and 0 cooling degree-days).

Web Pages: • See http://www.eia.gov/totalenergy/data/monthly/#summary

for current data. \bullet See http://www.eia.gov/totalenergy/data/annual/#summary for historical data.

Sources: There are several degree-day databases maintained by the National Oceanic and Atmospheric Administration. The information published here is developed by the National Weather Service Climate Prediction Center, Camp Springs, MD. The data are available weekly with monthly summaries and are based on mean daily temperatures recorded at about 200 major weather stations around the country. The temperature information recorded at those weather stations is used to calculate statewide degree-day averages based on population. The state figures are then aggregated into Census Divisions and into the national average. The population weights currently used represent resident state population data estimated for the 2000 Census by the U.S. Department of Commerce, Bureau of the Census. The data provided here are available sooner than the Historical Climatology Series 5-2 (cooling degree-days) developed by the National Climatic Data Center, Asheville, NC, which compiles data from some 8,000 weather stations.

b Excludes Alaska and Hawaii.

Energy Overview

Note. Merchandise Trade Value. Imports data presented are based on the customs values. Those values do not include insurance and freight and are consequently lower than the cost, insurance, and freight (CIF) values, which are also reported by the Bureau of the Census. All exports data, and imports data through 1980, are on a free alongside ship (f.a.s.) basis.

"Balance" is exports minus imports; a positive balance indicates a surplus trade value and a negative balance indicates a deficit trade value. "Energy" includes mineral fuels, lubricants, and related material. "Non-Energy Balance" and "Total Merchandise" include foreign exports (i.e., re-exports) and nonmonetary gold and U.S. Department of Defense Grant-Aid shipments. The "Non-Energy Balance" is calculated by subtracting the "Energy" from the "Total Merchandise Balance."

"Imports" consist of government and nongovernment shipments of merchandise into the 50 states, the District of Columbia, Puerto Rico, the U.S. Virgin Islands, and the U.S. Foreign Trade Zones. They reflect the total arrival from foreign countries of merchandise that immediately entered consumption channels, warehouses, the Foreign Trade Zones, or the Strategic Petroleum Reserve. They exclude shipments between the United States, Puerto Rico, and U.S. possessions, shipments to U.S. Armed Forces and diplomatic missions abroad for their own use, U.S. goods returned to the United States by its Armed Forces, and in-transit shipments.

Table 1.2 Sources

Coal

1949–1988: Coal production data from Table 6.1 are converted to Btu by multiplying by the coal production heat content factors in Table A5.

1989 forward: Coal production data from Table 6.1 are converted to Btu by multiplying by the coal production heat content factors in Table A5. Waste coal supplied data from Table 6.1 are converted to Btu by multiplying by the waste coal supplied heat content factors in Table A5. Coal production (including waste coal supplied) is equal to coal production plus waste coal supplied.

Natural Gas (Dry)

1949 forward: Natural gas (dry) production data from Table 4.1 are converted to Btu by multiplying by the natural gas (dry) production heat content factors in Table A4.

Crude Oil

1949 forward: Crude oil (including lease condensate) production data from Table 3.1 are converted to Btu by multiplying by the crude oil (including lease condensate) production heat content factors in Table A2.

NGPL

1949 forward: Natural gas plant liquids (NGPL) production data from Table 3.1 are converted to Btu by multiplying by the NGPL production heat content factors in Table A2.

Fossil Fuels Total

1949 forward: Total fossil fuels production is the sum of the production values for coal, natural gas (dry), crude oil, and NGPL.

Nuclear Electric Power

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

Renewable Energy

1949 forward: Table 10.1.

Total Primary Energy Production

1949 forward: Total primary energy production is the sum of the production values for fossil fuels, nuclear electric power, and renewable energy.

Table 1.3 Sources

Coal

1949 forward: Coal consumption data from Table 6.1 are converted to Btu by multiplying by the total coal consumption heat content factors in Table A5.

Natural Gas

1949–1979: Natural gas (including supplemental gaseous fuels) consumption data from Table 4.1 are converted to Btu by multiplying by the total natural gas consumption heat content factors in Table A4.

1980 forward: Natural gas (including supplemental gaseous fuels) consumption data from Table 4.1 are converted to Btu by multiplying by the total natural gas consumption heat content factors in Table A4. Supplemental gaseous fuels data in Btu are estimated using the method described in Note 3, "Supplemental Gaseous Fuels," at the end of Section 4. Natural gas (excluding supplemental gaseous fuels) consumption is equal to natural gas (including supplemental gaseous fuels) consumption minus supplemental gaseous fuels.

Petroleum

1949–1992: Petroleum (excluding biofuels) consumption is equal to total petroleum products supplied from Table 3.6. 1993–2008: Petroleum (excluding biofuels) consumption is equal to total petroleum products supplied from Table 3.6 minus fuel ethanol consumption from Table 10.3.

2009 forward: Petroleum (excluding biofuels) consumption is equal to: total petroleum products supplied from Table 3.6; minus fuel ethanol (minus denaturant) consumption from Table 10.3; minus refinery and blender net inputs of renewable fuels (excluding fuel ethanol) from U.S. Energy Information Administration, *Petroleum Supply Annual/Petroleum Supply Monthly*, Table 1 (data are converted to Btu by multiplying by the biodiesel heat content factor in Table A1).

Coal Coke Net Imports

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

Fossil Fuels Total

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

Nuclear Electric Power

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

Renewable Energy

1949 forward: Table 10.1.

Electricity Net Imports

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

Total Primary Energy Consumption

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

Table 1.4a Sources

Coal

1949 forward: Coal imports data from Table 6.1 are converted to Btu by multiplying by the coal imports heat content factors in Table A5.

Coal Coke

1949 forward: Coal coke imports data from U.S. Department of Commerce, Bureau of the Census, Monthly Report IM 145, are converted to Btu by multiplying by the coal coke imports heat content factor in Table A5.

Natural Gas

1949 forward: Natural gas imports data from Table 4.1 are converted to Btu by multiplying by the natural gas imports heat content factors in Table A4.

Crude Oil

1949 forward: Crude oil imports data from Table 3.3b are converted to Btu by multiplying by the crude oil imports heat content factors in Table A2.

Petroleum Products

1949–1992: Petroleum products (excluding biofuels) imports are equal to total petroleum imports from Table 3.3b minus crude oil imports from Table 3.3b; petroleum products (excluding biofuels) imports data are converted to Btu by multiplying by the total petroleum products imports heat content factors in Table A2.

1993–2008: Petroleum products (excluding biofuels) imports are equal to petroleum products (including biofuels) imports (see 1949–1992 sources above) minus fuel ethanol (minus denaturant) imports (see "Biofuels—Fuel Ethanol (Minus Denaturant)" sources below).

2009 forward: Renewable fuels (excluding fuel ethanol) imports data are from U.S. Energy Information Administration, *Petroleum Supply Annual (PSA)/Petroleum Supply Monthly (PSM)*, Table 1, and are converted to Btu by multiplying by the biodiesel heat content factor in Table A1. Petroleum products (excluding biofuels) imports are equal to petroleum products (including biofuels) imports (see 1949–1992 sources above) minus fuel ethanol (minus denaturant) imports (see "Biofuels—Fuel Ethanol (Minus Denaturant)" sources below) minus renewable fuels (excluding fuel ethanol) imports.

Total Petroleum

1949 forward: Total petroleum imports are equal to crude oil imports plus petroleum products imports.

Biofuels—Fuel Ethanol (Minus Denaturant)

1993 forward: Fuel ethanol (including denaturant) imports data are from PSA/PSM Table 1. Fuel ethanol (minus denaturant) production is equal to fuel ethanol (including denaturant) production from Table 10.3 minus denaturant from Table 10.3. Fuel ethanol (minus denaturant) imports are equal to fuel ethanol (including denaturant) imports multiplied by the ratio of fuel ethanol (minus denaturant) production to fuel ethanol (including denaturant) production. Fuel ethanol (minus denaturant) imports data are converted to Btu by multiplying by 3.539 million Btu per barrel, the undenatured ethanol heat content factor in Table A3.

Biofuels—Biodiesel

2001 forward: Biodiesel imports data are from Table 10.4, and are converted to Btu by multiplying by the biodiesel heat content factor in Table A1.

Biofuels—Other Renewable Fuels

2009 forward: Other renewable fuels imports data are from PSA Table 25/PSM Table 37, and are converted to Btu by multiplying by the biodiesel heat content factor in Table A1.

Total Biofuels

1993–2000: Total biofuels imports are equal to fuel ethanol (minus denaturant) imports.

2001–2008: Total biofuels imports are equal to fuel ethanol (minus denaturant) imports plus biodiesel imports.

2009 forward: Total biofuels imports are the sum of imports values for fuel ethanol (minus denaturant), biodiesel, and other renewable fuels.

Electricity

1949 forward: Electricity imports data from Table 7.1 are converted to Btu by multiplying by the electricity heat content factor in Table A6.

Total Primary Energy Imports

1949 forward: Total primary energy imports are the sum of the imports values for coal, coal coke, natural gas, total petroleum, total biofuels, and electricity.

Table 1.4b Sources

Coal

1949 forward: Coal exports data from Table 6.1 are converted to Btu by multiplying by the coal exports heat content factors in Table A5.

Coal Coke

1949 forward: Coal coke exports data from U.S. Department of Commerce, Bureau of the Census, Monthly Report EM 545, are converted to Btu by multiplying by the coal coke exports heat content factor in Table A5.

Natural Gas

1949 forward: Natural gas exports data from Table 4.1 are converted to Btu by multiplying by the natural gas exports heat content factors in Table A4.

Crude Oil

1949 forward: Crude oil exports data from Table 3.3b are converted to Btu by multiplying by the crude oil exports heat content factor in Table A2.

Petroleum Products

1949–2009: Petroleum products (excluding biofuels) exports are equal to total petroleum exports from Table 3.3b minus crude oil exports from Table 3.3b; petroleum products (excluding biofuels) exports data are converted to Btu by multiplying by the total petroleum products exports heat content factors in Table A2.

2010 forward: Petroleum products (including biofuels) exports are equal to total petroleum exports from Table 3.3b minus crude oil exports from Table 3.3b; petroleum products (including biofuels) exports data are converted to Btu by multiplying by the total petroleum products exports heat content factors in Table A2. Petroleum products (excluding biofuels) exports are equal to petroleum products (including biofuels) exports minus fuel ethanol (minus denaturant) exports (see "Biofuels—Fuel Ethanol (Minus Denaturant)" sources below).

Total Petroleum

1949 forward: Total petroleum exports are equal to crude oil exports plus petroleum products exports.

Biofuels—Fuel Ethanol (Minus Denaturant)

2010 forward: Fuel ethanol (including denaturant) exports data are from U.S. Energy Information Administration, *Petroleum Supply Annual/Petroleum Supply Monthly*, Table 1. Fuel ethanol (minus denaturant) production is equal to fuel ethanol (including denaturant) production from Table 10.3 minus denaturant from Table 10.3. Fuel ethanol (minus denaturant) exports are equal to fuel ethanol (including denaturant) exports multiplied by

the ratio of fuel ethanol (minus denaturant) production to fuel ethanol (including denaturant) production. Fuel ethanol (minus denaturant) exports are converted to Btu by multiplying by 3.539 million Btu per barrel, the undenatured ethanol heat content factor in Table A3.

Biofuels—Biodiesel

2001 forward: Biodiesel exports data are from Table 10.4, and are converted to Btu by multiplying by the biodiesel heat content factor in Table A1.

Total Biofuels

2001–2009: Total biofuels exports are equal to biodiesel exports.

2010 forward: Total biofuels exports are equal to fuel ethanol (minus denaturant) exports plus biodiesel exports.

Electricity

1949 forward: Electricity exports data from Table 7.1 are converted to Btu by multiplying by the electricity heat content factor in Table A6.

Total Primary Energy Exports

1949 forward: Total primary energy exports are the sum of the exports values for coal, coal coke, natural gas, total petroleum, total biofuels, and electricity.

Total Primary Energy Net Imports

1949 forward: Total primary energy net imports are equal to total primary energy imports from Table 1.4a minus total primary energy exports.

Table 1.5 Sources

U.S. Department of Commerce, Bureau of the Census, Foreign Trade Division:

Petroleum Exports

1974–1987: "U.S. Exports," FT-410, December issues. 1988 and 1989: "Report on U.S. Merchandise Trade," Final Revisions

1990–1992: "U.S. Merchandise Trade," Final Report.

1993–2009: "U.S. International Trade in Goods and Services," Annual Revisions.

2010: "U.S. International Trade in Goods and Services," 2012 Annual Revisions.

2011–2013: "U.S. International Trade in Goods and Services," 2013 Annual Revisions.

2014: "U.S. International Trade in Goods and Services," FT-900, monthly.

Petroleum Imports

1974–1987: "U.S. Merchandise Trade," FT-900, December issues, 1975–1988.

1988 and 1989: "Report on U.S. Merchandise Trade," Final Revisions.

1990-1993: "U.S. Merchandise Trade," Final Report.

1994–2009: "U.S. International Trade in Goods and Services," Annual Revisions.

2010: "U.S. International Trade in Goods and Services," 2012 Annual Revisions.

2011–2013: "U.S. International Trade in Goods and Services," 2013 Annual Revisions.

2014: "U.S. International Trade in Goods and Services," FT-900, monthly.

Energy Exports and Imports

1974–1987: U.S. merchandise trade press releases and database printouts for adjustments.

1988: January–July, monthly FT-900 supplement, 1989 issues. August–December, monthly FT-900, 1989 issues.

1989: Monthly FT-900, 1990 issues.

1990-1992: "U.S. Merchandise Trade," Final Report.

1993–2009: "U.S. International Trade in Goods and Services," Annual Revisions.

2010: "U.S. International Trade in Goods and Services," 2012 Annual Revisions.

2011–2013: "U.S. International Trade in Goods and Services," 2013 Annual Revisions.

2014: "U.S. International Trade in Goods and Services," FT-900, monthly.

Petroleum, Energy, and Non-Energy Balances

Calculated by the U.S. Energy Information Administration.

Total Merchandise

1974–1987: U.S. merchandise trade press releases and database printouts for adjustments.

1988: "Report on U.S. Merchandise Trade, 1988 Final Revisions," August 18, 1989.

1989: "Report on U.S. Merchandise Trade, 1989 Revisions," July 10, 1990.

1990: "U.S. Merchandise Trade, 1990 Final Report," May 10, 1991, and "U.S. Merchandise Trade, December 1992," February 18, 1993, page 3.

1991: "U.S. Merchandise Trade, 1992 Final Report," May 12, 1993.

1992–2009: "U.S. International Trade in Goods and Services," Annual Revisions.

2010: "U.S. International Trade in Goods and Services," 2012 Annual Revisions.

2011–2013: "U.S. International Trade in Goods and Services," 2013 Annual Revisions.

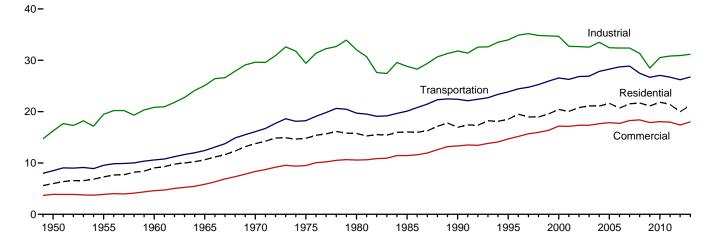
2014: "U.S. International Trade in Goods and Services," FT-900, monthly.

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2. Energy Consumption by Sector

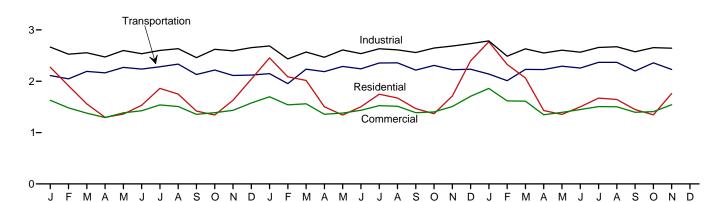
Figure 2.1 Energy Consumption by Sector (Quadrillion Btu)

Total Consumption by End-Use Sector, 1949–2013



Total Consumption by End-Use Sector, Monthly

4-

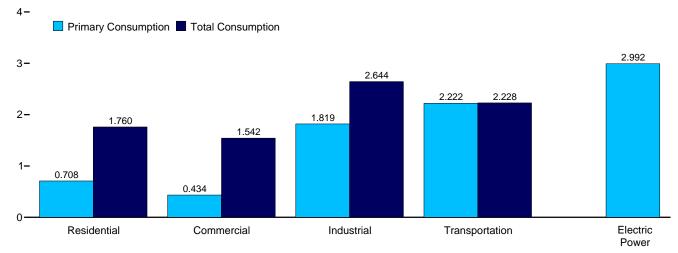


2013

2014

By Sector, November 2014

2012



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

Source: Table 2.1.

Energy Consumption by Sector Table 2.1

	•				Electric						
	Reside	ential	Comm		Sectors	strial ^b	Transpo	ortation	Power Sector ^{c,d}		
	Primarye	Total ^f	Primarye	Total ^f	Primarye	Total ^f	Primarye	Total ^f	Primarye	Balancing Item ^g	Primary Total ^h
1950 Total	4,829	5,989	2,834	3,893	13,890	16,241	8,383	8,492	4,679	(s)	34,616
1955 Total	5,608	7,278	2,561	3,895	16,103	19,485	9,474	9,550	6,461	(s)	40,208
1960 Total	6,651	9,039	2,723	4,609	16,996	20,842	10,560	10,596	8,158	(s)	45,086
1965 Total	7,279	10,639	3,177	5,845	20,148	25,098	12,399	12,432	11,012	(s)	54,015
1970 Total	8,322	13,766	4,237	8,346	22,964	29,628	16,062	16,098	16,253	(s)	67,838
1975 Total	7,990	14,813	4,059	9,492	21,434	29,413	18,210	18,245	20,270	1	71,965
1980 Total	7,439 7,148	15,753 16,041	4,105	10,578 11,451	22,595 19,443	32,039 28,816	19,659 20,041	19,697	24,269	-1	78,067 76,392
1985 Total	6,557	16,041	3,732 3,896	13,320	21,180	31,810	22,366	20,088 22,420	26,032 d 30,495	-4 -9	76,392 84,485
1990 Total 1995 Total	6,936	18,518	4,100	14,690	22,718	33,970	23,796	23,851	33,479	3	91,032
2000 Total	7,158	20,424	4,278	17,175	22,823	34,662	26,495	26,555	38,062	2	98,819
2001 Total	6,867	20,041	4,084	17,136	21,793	32,719	26,219	26,282	37,215	-6	96,172
2002 Total	6,911	20,790	4,131	17,345	21,798	32,661	26,785	26,846	38,016	Š	97,647
2003 Total	7,237	21,124	4,297	17,345	21,534	32,554	26,826	26,900	38,028	-1	97,922
2004 Total	6,992	21,087	4,231	17,654	22,413	33,517	27,764	27,843	38,701	-6	100,096
2005 Total	6,908	21,620	4,050	17,852	21,413	32,444	28,199	28,280	39,626	(s)	100,196
2006 Total	6,165	20,681	3,745	17,705	21,533	32,395	28,638	28,717	39,417	(s)	99,497
2007 Total	6,603	21,534	3,919	18,249	21,370	32,392	28,772	28,859	40,371	`-1	101,034
2008 Total	6,911	21,686	4,094	18,399	20,540	31,347	27,404	27,487	39,969	1	98,919
2009 Total	6,662	21,103	4,048	17,883	18,769	28,479	26,605	26,687	38,069	(s)	94,152
2010 Total	6,590	21,845	4,011	18,048	20,291	30,536	26,978	27,059	39,619	7	97,496
2011 Total	6,495	21,404	4,050	17,966	20,440	30,827	26,632	26,712	39,293	8	96,917
2012 January	974	2,272	543	1,629	R 1,848	R 2,665	2,104	R 2,110	3,209	(s) -3	8,676
February	819	1,912	469	1,482	R 1,735	R 2,527	R 2,041	R 2,047	2,905		7,966
March	548	1,559	335	1,378	R 1,728	R 2,555	R 2,186	R 2,192	2,888	-6	7,678
April	402	1,297	267	1,293	R 1,650	R 2,472	2,158	2,164	2,749	-6	7,220
May	288	1,360	208	1,385	R 1,699	R 2,598	R 2,263	R 2,269	3,156	-2	7,610
June	243	1,531	188	1,425	R 1,660	R 2,536	R 2,230	R 2,236	3,407	3	7,731
July	228	1,861	181	1,539	R 1,679	R 2,600	R 2,275	2,282	3,919	8	8,290
August	236 238	1,749 1,418	198 ^R 197	1,508 R 1,355	^R 1,734 ^R 1,645	R 2,635 R 2,460	R 2,327 R 2,124	R 2,333 R 2,130	3,730 3,159	5 3	8,229 7,366
September	236 365	1,416	R 270	1,388	R 1,781	R 2,621	2,213	2,130	2,941	(s)	7,500 7,570
October November	618	1,629	R 374	R 1,432	R 1,772	R 2,593	R 2,107	2,219	2,895	(s)	7,767
December	822	2,040	466	1,577	R 1,818	R 2,654	R 2,114	2,113	3,173		8,392
Total	5,779	19,965	R 3,695	R 17,392	R 20,748	R 30,921	R 26,140	R 26,216	38,131	(s) 2	94,496
2013 January	1,090	2,454	582	1,697	R 1,877	R 2,688	R 2,141	R 2,147	3,297	R (s)	R 8,986
February	946	2,086	523 ^R 481	1,540	R 1,682	R 2,434	R 1,947 R 2,229	R 1,953	2,915	-1	R 8,012
March	855	2,016	R 318	1,560	R 1,758	R 2,569	R 2,229	R 2,236	3,057	-2	8,379
April May	527 332	1,502 1.341	224	R 1,356 R 1,380	R 1,673 R 1,737	R 2,467 R 2,609	R 2,180	R 2,187 R 2,289	2,814 3.044	-4 -3	7,509 ^R 7,616
June	252 252	1,503	183	1,434	R 1,673	R 2,538	R 2,234	R 2,241	3,374	-3 2	R 7,718
July	242	1,747	184	R 1,524	R 1.754	R 2.632	R 2.349	R 2,356	3,730	5	R 8,265
August	243	1,673	R 190	R 1,512	R 1,732	R 2,611	R 2,352	R 2,359	3,638	4	8,160
September	255	1,468	197	1,388	R 1,755	R 2.559	R 2,210	R 2,217	3,215	1	7,633
October	363	1,367	260	1,402	R 1,827	R 2,646	R 2,303	R 2.309	2,971	-2	R 7,721
November	676	1,713	R 410	1,508	R 1,863	R 2,685	R 2,218	R 2,224	2,963	-2	R 8,127
December	1,032	2,397	R 550	_ 1,708	R 1,922	R 2,732	R 2,227	R 2,234	3,339	1	R 9,071
Total	6,812	21,266	^R 4,103	R 18,010	R 21,253	^R 31,173	R 26,673	R 26,751	38,359	-1	^R 97,199
2014 January	R 1,229	R 2,768	R 660	R 1,860	R 1,969	R 2,785	R 2,133	R 2,141	3,563	4	R 9,558
February	R 1.028	R 2,328	R 574	R 1,616	R 1,760	R 2,488	R 2,004	R 2,011	3,077	2	R 8,446
March	R 877	R 2,064	R 500	R 1,611	R 1,819	R 2,631	R 2,224	R 2,231	3,118	(s)	R 8,537
April	R 488	R 1,429	R 302	R 1,347	R 1,758	R 2,550	R 2,221	R 2,228	2,785	`-3 -2	R 7,551
May	R 342	R 1,353	R 232	R 1,393	R 1,735	R 2,605	R 2,287	R 2,293	3,049	-2	R 7,643
June	R 256	1,501	192	R 1,449	R 1,695	R 2,566	R 2,250	R 2,257	3,378	2 5	R 7,774
July	R 246	R 1,671	R 187	1,505	R 1,778	R 2,658	R 2,360	R 2,367	3,631		R 8,206
August	241 265	1,645 1.449	189 206	1,502 R 1,396	R 1,783 R 1,768	R 2,671 R 2,573	^R 2,361 ^R 2,193	R 2,368 R 2,199	3,612 3,185	4 1	^R 8,190 ^R 7,618
September	R 365	1,449 R 1,345	R 267	R 1,407	R 1,768	R 2,573	R 2,193	R 2,199	3,185 2.944	1 -5	R 7,618
October November	708	1,760	434	1,542	1,819	2,644	2,222	2,228	2,944	-5 -1	8,174
11-Month Total	6, 045	1,760 19,311	3,742	1,542 16,630	1,819 19,721	28,826	24,606	2,228 24,680	2,992 35,334	8	89,456
2013 11-Month Total 2012 11-Month Total	5,781 4,959	18,870 17,931	3,553 3,230	16,301 15,812	19,331 18,930	28,440 28,263	24,446 24,027	24,517 24,095	35,018 34,958	-2 2	88,127 86,105

 ^a Commercial sector, including commercial combined-heat-and-power (CHP) and commercial electricity-only plants.
 ^b Industrial sector, including industrial combined-heat-and-power (CHP) and industrial electricity-only plants.
 ^c Electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public the public.

d Through 1988, data are for electric utilities only. Beginning in 1989, data are

Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities and independent power producers.
 See "Primary Energy Consumption" in Glossary.
 Total energy consumption in the end-use sectors consists of primary energy consumption, electricity retail sales, and electrical system energy losses. See Note 1, "Electrical System Energy Losses," at end of section.
 A balancing item. The sum of primary consumption in the five energy-use sectors equals the sum of total consumption in the four end-use sectors. However, total energy consumption does not equal the sum of the sectoral components due

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

h Primary energy consumption total. See Table 1.3.

R=Revised. (s)=Less than 0.5 trillion Btu and greater than -0.5 trillion Btu.

Notes: • Data are estimates, except for the electric power sector. • See Note 2,

"Classification of Power Plants Into Energy-Use Sectors," at end of Section 7.

• See Note 2, "Energy Consumption Data and Surveys," at end of section 7.

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

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

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

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

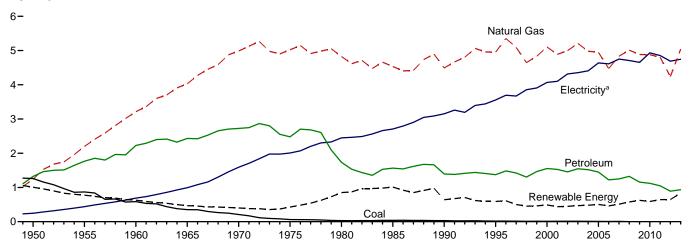
data beginning in 1949 and monthly data beginning in 1949 and monthly data beginning in 1973.

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

• Primary Total: Table 1.3.

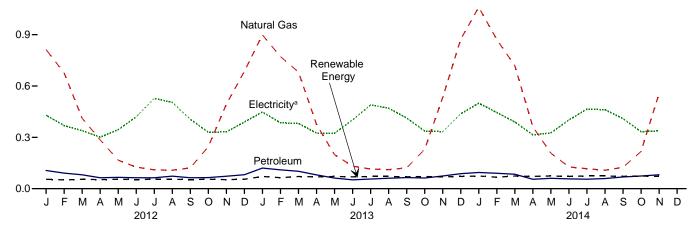
Figure 2.2 Residential Sector Energy Consumption (Quadrillion Btu)

By Major Source, 1949-2013

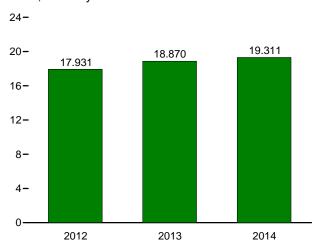


By Major Source, Monthly

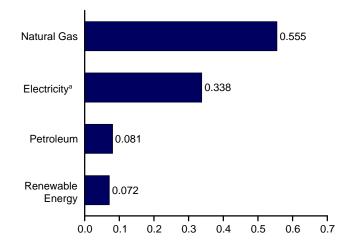
1.2-



Total, January-November



By Major Source, November 2014



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

Table 2.2 Residential Sector Energy Consumption

		Fossil	Fuels			Renewab	le Energy ^b			1	Electrical	
	Coal	Natural Gas ^c	Petro- leum	Total	Geo- thermal	Solar/ PV	Bio- mass	Total	Total Primary	Electricity Retail Sales ^d	System Energy Losses ^e	Total
1950 Total 1955 Total 1960 Total 1965 Total	1,261 867 585 352	1,240 2,198 3,212 4,028	1,322 1,767 2,227 2,432	3,824 4,833 6,024 6,811	NA NA NA	NA NA NA	1,006 775 627 468	1,006 775 627 468	4,829 5,608 6,651 7,279	246 438 687 993	913 1,232 1,701 2,367	5,989 7,278 9,039 10,639
1970 Total	209	4,987	2,725	7,922	NA	NA	401	401	8,322	1,591	3,852	13,766
1975 Total	63	5,023	2,479	7,564	NA	NA	425	425	7,990	2,007	4,817	14,813
1980 Total	31	4,825	1,734	6,589	NA	NA	850	850	7,439	2,448	5,866	15,753
1985 Total	39	4,534	1,565	6,138	NA	NA	1,010	1,010	7,148	2,709	6,184	16,041
1990 Total	31	4,491	1,394	5,916	<u>6</u>	56	580	641	6,557	3,153	7,235	16,945
1995 Total	17	4,954	1,373	6,345	7	64	520	591	6,936	3,557	8,026	18,518
2000 Total	11	5,105	1,553	6,669	9	61	420	489	7,158	4,069	9,197	20,424
2001 Total	12	4,889	1,528	6,429	9	59	370	438	6,867	4,100	9,074	20,041
2002 Total	12	4,995	1,456	6,463	10	57	380	448	6,911	4,317	9,562	20,790
2003 Total	12	5,209	1,546	6,768	13	57	400	470	7,237	4,353	9,534	21,124
2004 Total 2005 Total 2006 Total 2007 Total 2008 Total 2009 Total 2010 Total	11 8 6 8 NA NA NA	4,981 4,946 4,476 4,835 5,010 4,883 4,878 4,805	1,519 1,450 1,221 1,249 1,324 1,157 1,121 1,048	6,511 6,405 5,704 6,092 6,334 6,040 5,999 5,852	14 16 18 22 26 33 37 40	57 58 63 70 80 89 114 153	410 430 380 420 470 500 440 450	481 504 462 512 577 622 591 643	6,992 6,908 6,165 6,603 6,911 6,662 6,590	4,408 4,638 4,611 4,750 4,708 4,656 4,933 4,855	9,687 10,074 9,905 10,180 10,067 9,786 10,323 10,054	21,087 21,620 20,681 21,534 21,686 21,103 21,845 21,404
2011 Total	NA NA NA	813 677	1,048 106 91	919 768	3 3	16 15	36 33	55 51	6,495 974 819	430 368	869 724	21, 404 2,272 1,912
February	NA	412	81	493	3	16	36	55	548	339	672	1,559
March	NA	285	64	349	3	15	34	53	402	301	594	1,297
April	NA	167	66	233	3	16	36	55	288	344	728	1,360
May	NA	126	64	190	3	15	34	53	243	419	869	1,531
June	NA	110	64	174	3	16	36	55	228	527	1,106	1,861
	NA	108	73	181	3	16	36	55	236	505	1,008	1,749
	NA	121	64	185	3	15	34	53	238	405	775	1,418
	NA	245	65	310	3	16	36	55	365	330	648	1,343
November	NA	493	73	565	3	15	34	53	618	331	680	1,629
December	NA	686	81	767	3	16	36	55	822	390	829	2,040
Total	NA	4,242	892	5,134	40	186	420	646	5,779	4,690	9,496	19,965
2013 January	NA	899	121	1,019	3	19	49	71	1,090	448	916	2,454
February	NA	772	110	882	3	17	44	64	946	385	755	2,086
March	NA	682	102	783	3	19	49	71	855	381	780	2,016
April	NA	377	81	458	3	18	48	69	527	325	650	1,502
May June July August	NA NA NA NA	199 131 115 111	62 52 56 61	261 183 171 172	3 3 3	19 18 19 19	49 48 49 49	71 69 71 71	332 252 242 243	324 402 489 470	685 849 1,015 960	1,341 1,503 1,747 1,673
September October November December Total	NA NA NA NA NA	121 229 533 873 5,040	65 62 74 88 933	186 291 607 961 5,974	3 3 3 40	18 19 18 19 219	48 49 48 49 580	69 71 69 71 839	255 363 676 1,032 6,812	413 337 334 438 4,746	800 668 704 927 9,707	1,468 1,367 1,713 2,397 21,266
2014 January	NA	R 1,060	95	R 1,155	3	21	49	74	R 1,229	500	1,039	R 2,768
February	NA	R 871	90	R 961	3	19	44	67	R 1,028	445	854	R 2,328
March	NA	R 719	84	R 803	3	21	49	74	R 877	390	798	R 2,064
April	NA NA NA NA	R 361 207 128 116 108	55 61 57 55 59	R 416 R 268 185 R 172 167	3 3 3 3	21 21 21 21 21 21	48 49 48 49 49	72 74 72 74 74	R 488 R 342 R 256 R 246 241	315 326 401 465 461	626 685 843 960 942	R 1,429 R 1,353 1,501 R 1,671 1,645
September	NA	125	68	R 193	3	21	48	72	265	410	774	1,449
October	NA	217	R 74	R 291	3	21	49	74	R 365	333	647	R 1,345
November	NA	555	81	636	3	21	48	72	708	338	714	1,760
11-Month Total	NA	4,467	780	5,247	36	230	531	797	6,045	4,383	8,883	19,311
2013 11-Month Total	NA	4,168	845	5,014	36	200	531	767	5,781	4,308	8,781	18,870
2012 11-Month Total	NA	3,557	810	4,367	36	170	384	591	4,959	4,300	8,673	17,931

section.

section.

R=Revised. NA=Not available.

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

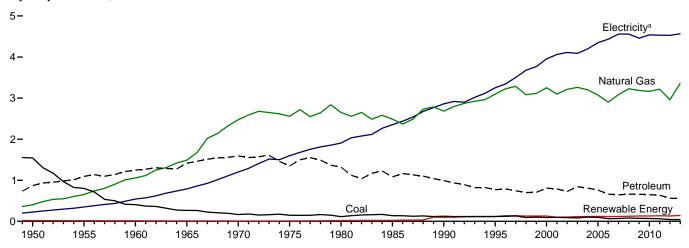
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#consumption
(Excel and CSV files) for all available annual data beginning in 1949 and monthly
data beginning in 1973.

Sources: See end of section.

a See "Primary Energy Consumption" in Glossary.
b See Table 10.2a for notes on series components.
c Natural gas only; excludes the estimated portion of supplemental gaseous fuels. See Note 3, "Supplemental Gaseous Fuels," at end of Section 4.
d Electricity retail sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
Total losses are calculated as the primary energy consumed by the electric power sector minus the energy content of electricity retail sales. Total losses are allocated to the end-use sectors in proportion to each sector's share of total electricity retail sales. See Note 1, "Electrical System Energy Losses," at end of

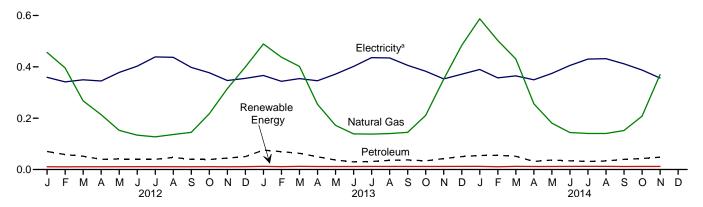
Figure 2.3 Commercial Sector Energy Consumption (Quadrillion Btu)

By Major Source, 1949-2013

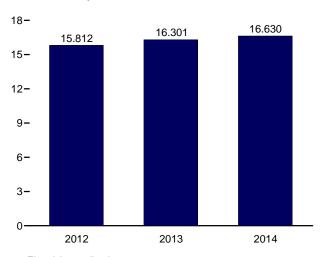


By Major Source, Monthly

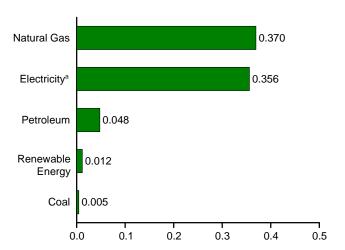
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Total, January-November



By Major Source, November 2014



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

Table 2.3 Commercial Sector Energy Consumption

					Primary (Consump	tiona							
		Fossi	l Fuels			R	enewabl	e Energy	/ b			Elec-	Electrical	
	Coal	Natural Gas ^c	Petro- leum ^d	Total	Hydro- electric Power ^e	Geo- thermal	Solar/ PV	Wind	Bio- mass	Total	Total Primary	tricity Retail Sales ^f	System Energy Losses ⁹	Total
1950 Total 1955 Total 1960 Total 1960 Total 1965 Total 1970 Total 1975 Total 1975 Total 1985 Total 1985 Total 1985 Total 1990 Total 2001 Total 2001 Total 2002 Total 2003 Total 2004 Total 2006 Total 2006 Total 2007 Total 2008 Total 2009 Total 2011 Total	1,542 801 407 265 165 147 115 137 124 117 92 97 65 70 81 73 62	401 651 1,450 2,473 2,558 2,651 2,488 2,682 3,095 3,252 3,261 3,201 3,201 3,201 3,201 3,203 3,253 3,251 3,20	872 1,095 1,248 1,413 1,592 1,318 1,038 1,038 991 769 806 689 725 841 809 761 661 646 660 659 647 636	2,815 2,547 2,711 3,168 4,229 4,084 3,798 3,982 4,150 3,983 4,027 4,184 4,113 3,627 3,801 3,919 3,919	NA NA NA NA NA NA NA 1 1 1 1 (s) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NA NA NA NA NA NA NA 12 12 14 14 15 17 19 20	NA N	NA A A A A A A A A A A A A A A A A A A	19 15 12 9 8 8 21 24 94 113 119 92 95 101 105 103 103 109 112 111	19 15 12 9 8 8 21 24 98 118 128 101 1104 113 118 120 118 125 125 130 136	2,834 2,561 2,723 4,237 4,105 3,732 4,105 3,896 4,100 4,278 4,084 4,131 4,297 4,231 4,231 4,048 4,048 4,048 4,048 4,048	225 350 543 789 1,201 1,906 2,351 2,860 3,252 3,956 4,062 4,1198 4,082 4,138 4,435 4,558 4,460 4,539 4,531	834 984 1,344 1,880 2,908 3,835 4,567 5,368 6,564 7,337 8,990 9,104 8,958 9,225 9,451 9,525 9,771 9,746 9,375 9,498 9,385	3,893 3,895 4,609 5,845 8,346 9,492 10,578 11,451 13,320 14,690 17,175 17,136 17,345 17,654 17,852 17,705 18,399 17,883 18,048 17,966
Pebruary	554333333345 44	456 396 267 214 152 134 127 136 145 217 315 400 2,960	R 70 58 52 40 41 R 40 47 R 39 39 45 R 50 R 562	532 459 324 R 256 R 196 R 177 170 R 186 187 R 259 364 455	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	9 9 9 9 9 9 9 9 9 8 108	11 10 11 11 11 11 11 11 11 11 11 11 11	543 469 335 267 208 188 181 198 R 197 R 270 R 374 466	359 341 350 345 378 403 439 437 398 377 347 355 4,528	727 671 693 681 799 834 919 873 760 741 711 756 9,168	1,629 1,482 1,378 1,293 1,385 1,425 1,539 1,508 R 1,355 1,388 R 1,432 1,577 R 17,392
2013 January February March April May June July August September October November December Total	5553333323444 41	489 438 401 254 172 139 138 140 145 211 352 484 3,363	76 70 63 50 37 30 8 31 36 38 44 43 8 50 8 556	570 512 469 307 212 R 171 172 R 178 185 248 R 398 538 R 3,960	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	10 9 10 10 10 10 10 10 10 10 10 10	12 11 12 12 12 12 12 12 12 12 12 12 143	582 523 R 481 R 318 224 183 184 R 190 197 260 R 410 R 550 R 4,103	366 344 354 346 372 401 436 435 406 383 353 371 4,567	749 673 724 692 785 849 904 888 786 759 744 786 9,340	1,697 1,540 1,560 R1,356 R1,380 1,434 R1,524 R1,512 1,388 1,402 1,508 1,708 R18,010
2014 January	55 53 32 33 45 40	R 587 R 502 R 431 R 256 R 181 R 144 R 140 R 141 R 152 208 370 3,111	55 R 55 52 R 31 37 34 R 31 R 33 40 R 43 48 459	R 647 R 563 R 487 R 290 R 220 180 174 R 177 R 195 R 254 422 3,611	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	10 9 10 10 10 10 10 10 10 10 10	12 11 12 12 12 12 12 12 12 12 12 12	R 660 R 574 R 570 R 302 R 232 192 R 187 189 206 R 267 434 3,742	390 357 365 349 374 405 430 432 412 387 356 4,258	811 685 747 696 787 851 888 882 778 753 751 8,630	R1,860 R1,616 R1,611 R1,347 R1,393 R1,449 1,505 I,502 R1,396 R1,407 1,542 16,630
2013 11-Month Total 2012 11-Month Total	37 39	2,880 2,560	505 511	3,422 3,110	(s) (s)	18 18	3 1	1 (s)	109 99	130 119	3,553 3,230	4,195 4,173	8,553 8,410	16,301 15,812

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

a See "Primary Energy Consumption" in Glossary.
b See Table 10.2a for notes on series components and estimation.
c Natural gas only; excludes the estimated portion of supplemental gaseous fuels. See Note 3, "Supplemental Gaseous Fuels," at end of Section 4.
d Does not include biofuels that have been blended with petroleum—biofuels are included in "Biomass."
e Conventional hydroelectric power.
f Electricity retail sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
g Total losses are calculated as the primary energy consumed by the electric power sector minus the energy content of electricity retail sales. Total losses are allocated to the end-use sectors in proportion to each sector's share of total electricity retail sales. See Note 1, "Electrical System Energy Losses," at end of section.

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

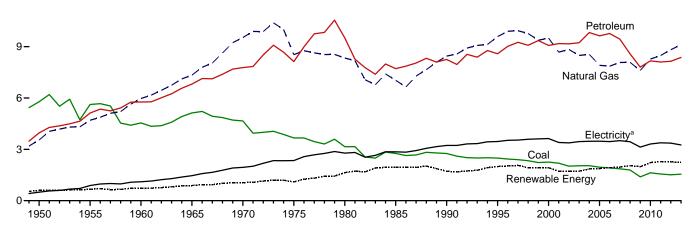
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#consumption (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Sources: See end of section.

Figure 2.4 Industrial Sector Energy Consumption (Quadrillion Btu)

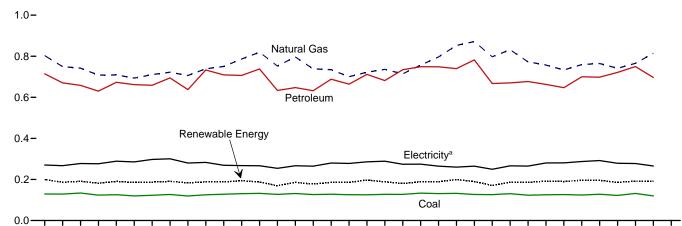
By Major Source, 1949-2013



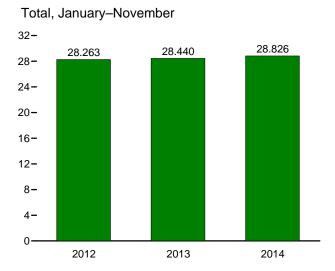


By Major Source, Monthly

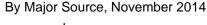
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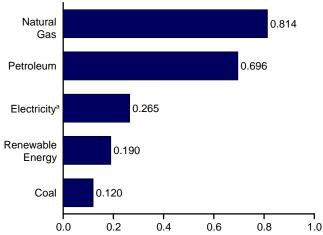
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^a Electricity retail sales. Web Page: http://www.eia.gov/totalenergy/data/monthly/#consumption. Source: Table 2.4.

Table 2.4 Industrial Sector Energy Consumption

1980 Total			·			Primar									
Total September Petro Cost Natural Petro George Power Power			Fossi	l Fuels			F	Renewable	e Energy ^b)					
1985 Total		Coal			Totale	electriç			Wind		Total		tricity Retail	System Energy	Total ^e
Februáry 129 749 8670 81,548 2 (s) (s) (s) 184 186 81,735 267 525 82 March 134 742 8658 81,537 2 (s) (s) (s) 188 191 81,728 277 550 82 April 124 708 8630 81,468 2 (s) (s) (s) 188 191 81,728 277 550 846 82 May 125 709 8673 81,508 2 (s) (s) (s) 188 191 81,728 277 550 846 82 June 120 694 8661 81,475 2 (s) (s) (s) 188 191 81,699 289 611 82 July 123 710 8659 81,492 1 (s) (s) (s) 188 191 81,699 289 611 82 July 123 710 8659 81,492 1 (s) (s) (s) 186 187 81,679 298 624 82 August 127 722 8694 81,543 1 (s) (s) (s) 186 187 81,679 298 624 82 Cotober 119 706 8638 81,462 2 (s) (s) (s) 189 191 81,734 301 600 82 Cotober 125 739 8733 81,594 2 (s) (s) (s) 181 183 81,645 280 535 82 Cotober 125 739 8733 81,594 2 (s) (s) (s) 186 188 81,772 269 552 82 December 131 786 8706 81,623 2 (s) (s) (s) 185 188 81,772 269 552 82 December 131 786 8706 81,623 2 (s) (s) (s) 185 188 81,772 269 552 82 December 131 8,819 88,146 818,482 22 4 (s) (s) (s) 185 188 81,877 267 545 82 April 8127 752 8633 1,513 3 (s) (s) (s) 184 8 81,877 267 545 82 April 8127 752 8633 1,513 3 (s) (s) (s) 184 81 88 81,877 267 545 82 April 8126 739 8632 81,495 2 (s) (s) (s) 184 81 88 81,877 267 545 82 April 8126 739 8632 81,495 2 (s) (s) (s) 182 186 81,758 266 545 82 June 126 700 8648 81,551 3 (s) (s) (s) 183 186 81,673 228 590 590 82 June 126 700 8648 81,551 3 (s) (s) (s) 184 81 80 81,673 228 590 82 June 126 700 8648 81,551 3 (s) (s) (s) 184 189 82,1437 228 590 590 82 June 126 700 8648 81,551 3 (s) (s) (s) 184 189 81,1673 228 590 690 82 December 8137 796 867 81,683 2 (s) (s) (s) 186 189 81,155 22 289 590 82 December 8137 796 867 81,557 3 (s) (s) (s) 184 189 81,1673 228 590 590 82 June 126 700 8648 81,551 3 (s) (s) (s) 186 189 81,155 2 20 0.000000000000000000000000000000	1955 Total 1960 Total 1965 Total 1970 Total 1977 Total 1975 Total 1980 Total 1985 Total 1990 Total 1990 Total 1995 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2008 Total 2008 Total 2009 Total	5,620 4,543 5,127 4,656 3,667 3,165 2,760 2,758 2,492 2,019 2,047 1,954 1,954 1,865 1,793 1,392	4,701 5,973 9,536 8,532 8,333 7,032 8,451 9,592 9,500 8,832 8,488 8,488 7,907 7,867 8,083 7,603 8,278	5,123 5,766 6,813 7,776 8,127 9,509 7,714 8,585 9,073 9,167 9,229 9,825 9,634 9,767 7,806 8,576 7,806 8,167	15,434 16,277 19,260 21,911 20,339 20,962 17,492 19,463 20,726 20,074 20,078 19,809 20,560 19,540 19,603 19,603 19,603 18,493 16,784 18,070	38 39 34 32 33 33 31 55 42 33 39 43 32 29 16 17 18	NA NA NA NA NA NA 2 3 4 4 4 4 4 5 5 4 4 4 4 4 4 4 4 4 4 4 4	NA NA NA NA NA 	NA NA NA NA NA 	631 680 855 1,019 1,063 1,600 1,918 1,684 1,681 1,679 1,679 1,817 1,837 1,897 1,897 2,026 1,963 2,201	669 719 888 1,053 1,096 1,633 1,951 1,717 1,992 1,720 1,720 1,723 1,873 1,873 1,930 1,930 1,930 2,047 1,985	16,103 16,903 120,148 22,964 21,434 22,595 19,443 21,180 22,718 22,823 21,798 21,798 21,534 22,413 21,413 21,413 21,533 21,533 21,5370 20,540 18,769 20,291	887 1,107 1,463 1,948 2,346 2,781 2,855 3,226 3,455 3,453 3,477 3,454 3,477 3,451 3,507 3,444 3,133	2,495 2,739 3,487 4,716 5,632 6,664 6,518 7,796 8,208 7,526 7,484 7,565 7,631 7,554 7,515 7,363 6,580 6,932	16,241 19,485 20,842 25,098 29,628 29,413 32,039 28,816 31,810 33,970 34,662 32,754 33,517 32,444 32,395 32,395 32,395 31,347 28,479 30,536 30,827
February R127 752 R633 1,513 3 (s) (s) (s) 165 169 R1,682 254 498 R2 March R131 796 R647 R1,572 3 (s) (s) (s) 182 186 R1,758 266 545 R2 April R126 739 R632 R1,495 2 (s) (s) (s) (s) 174 177 R1,673 265 530 R2 May 128 735 R688 R1,551 3 (s) (s) (s) (s) R183 186 R1,737 280 592 R2 June 126 700 R664 R1,487 3 (s) (s) (s) 183 186 R1,737 280 592 R2 July R125 722 R712 R1,557 3 (s) (s) (s) 183 186 R1,673 278 588 R2 July R125 722 R712 R1,557 3 (s) (s) (s) 183 186 R1,673 278 588 R2 July R125 722 R712 R1,557 3 (s) (s) (s) 184 197 R1,754 286 593 R2 August R27 714 R334 R1,575 2 (s) (s) (s) (s) 186 189 R1,732 289 590 R2 September R127 714 R344 R1,575 2 (s) (s) (s) (s) 186 189 R1,732 289 590 R2 October R133 757 R749 R1,638 2 (s) (s) (s) 186 189 R1,827 275 544 R2 November R131 796 R749 R1,638 2 (s) (s) (s) 186 189 R1,827 275 544 R2 December R131 796 R749 R1,673 2 (s) (s) (s) 186 189 R1,827 275 544 R2 November R131 796 R749 R1,673 2 (s) (s) (s) 186 189 R1,822 260 550 R2 Total R1,547 9,120 R8,368 R19,018 32 4 (s) (s) R2,198 R2,235 R2,1253 3,258 6,662 R31 P6truary 126 R797 R667 R1,589 2 (s) (s) (s) 186 190 R1,969 265 551 R2 March 131 R832 R670 R1,589 2 (s) (s) (s) 186 190 R1,969 265 551 R2 March 131 R832 R670 R1,552 2 (s) (s) (s) (s) 184 186 R1,758 265 528 R2 May 125 R733 R677 R1,572 2 (s) (s) (s) (s) 188 190 R1,755 280 589 R2 July R123 R733 R677 R1,572 2 (s) (s) (s) (s) 188 190 R1,755 280 589 R2 July R124 R759 R700 R1,581 2 (s) (s) (s) (s) 189 192 R1,735 280 589 R2 July R124 R759 R700 R1,581 2 (s) (s) (s) (s) 194 196 R1,778 287 593 R2 August R124 R759 R700 R1,581 2 (s) (s) (s) (s) 194 196 R1,778 287 593 R2 August R124 R759 R700 R1,581 2 (s) (s) (s) (s) 183 186 R1,778 287 593 R2 August R128 R764 R688 R1,587 2 (s) (s) (s) (s) 183 186 R1,778 279 527 R2 September 122 R744 R721 R1,582 2 (s) (s) (s) (s) 183 185 R1,768 279 527 R2	February March April May June July August September October November December	129 134 124 125 120 123 127 119 125 128 131	749 742 708 709 694 710 722 706 739 750 786	R 670 R 658 R 630 R 673 R 661 R 659 R 694 R 638 R 733 R 709 R 706	R 1,548 R 1,537 R 1,468 R 1,508 R 1,475 R 1,492 R 1,543 R 1,462 R 1,594 R 1,594 R 1,623	2 2 2 2 2 1 1 1 2 2 2 2 2	(s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	184 188 180 188 183 186 189 181 186 185 192	186 191 182 191 185 187 191 183 188 188	R 1,735 R 1,728 R 1,650 R 1,660 R 1,679 R 1,734 R 1,645 R 1,781 R 1,772 R 1,818	267 277 276 289 285 298 301 280 283 269 267	525 550 546 611 591 624 600 535 556 552 569	R 2,665 R 2,527 R 2,555 R 2,472 R 2,598 R 2,536 R 2,600 R 2,635 R 2,460 R 2,621 R 2,593 R 2,654 R 30,921
February 126 R 797 R 667 R 1,589 2 (s) (s) (s) 168 171 R 1,760 250 479 R 2 March 131 R 832 R 670 R 1,632 2 (s) (s) (s) R 185 187 R 1,819 266 546 R 2 April R 123 R 773 R 677 R 1,572 2 (s) (s) (s) 184 186 R 1,758 265 528 R 2 May 125 R 757 R 663 R 1,544 2 (s) (s) (s) 189 192 R 1,735 280 589 R 2 June 126 R 733 R 647 R 1,505 2 (s) (s) (s) 188 190 R 1,695 281 590 R 2 July R 124 R 759 R 700 R 1,581 2 (s) (s) (s) (s) 193 R 196 R 1,778 2	February March April May June July August September October November December	R 127 R 131 R 126 128 126 R 125 128 R 127 R 133 R 131 R 132	752 796 739 735 700 722 736 714 757 796 853	R 633 R 647 R 632 R 688 R 664 R 712 R 782 R 734 R 749 R 749	1,513 R 1,572 R 1,495 R 1,551 R 1,557 R 1,557 R 1,543 R 1,575 R 1,638 R 1,673 R 1,723	3 3 2 3 3 2 2 2 2 2 2 3	(s) (s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) (s) (s) (s) (s) (s) (s)	165 182 174 R 183 183 194 186 178 186 187	169 186 177 186 186 197 189 189 189	R 1,682 R 1,758 R 1,673 R 1,737 R 1,754 R 1,732 R 1,755 R 1,827 R 1,827 R 1,922	254 266 265 280 278 286 289 274 275 265 260	498 545 530 592 588 593 590 530 544 558	R 2,688 R 2,434 R 2,569 R 2,609 R 2,538 R 2,632 R 2,611 R 2,559 R 2,646 R 2,685 R 2,732 R 31,173
November	February March April May June July August September October November 11-Month Total	126 131 R 123 125 126 R 124 R 128 122 132 120 1,385	R 797 R 832 R 773 R 757 R 733 R 759 R 764 R 741 R 765 814	R 667 R 670 R 677 R 663 R 647 R 700 R 698 R 721 R 750 696 7,671	R 1,589 R 1,632 R 1,572 R 1,544 R 1,505 R 1,581 R 1,587 R 1,582 R 1,645 1,628	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	(s) (s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	168 R 185 184 189 188 194 193 183 190 188 2,048	171 187 186 192 190 196 R 196 185 192 190 2,075	R 1,760 R 1,819 R 1,758 R 1,735 R 1,695 R 1,778 R 1,783 R 1,768 R 1,837 1,819 19,721	250 266 265 280 281 287 292 279 277 265 3,008	479 546 528 589 590 593 596 527 539 560 6,098	R 2,785 R 2,488 R 2,631 R 2,550 R 2,605 R 2,605 R 2,566 R 2,671 R 2,573 R 2,654 2,644 28,826

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

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

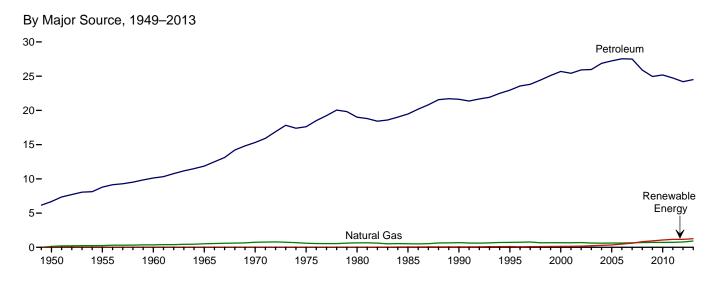
Notes: • Data are estimates, except for coal totals; hydroelectric power in 1949–1978 and 1989 forward; solar/PV; wind; and electricity retail sales. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. See Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7. • See Note 2, "Energy Consumption Data and Surveys," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

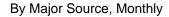
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#consumption (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

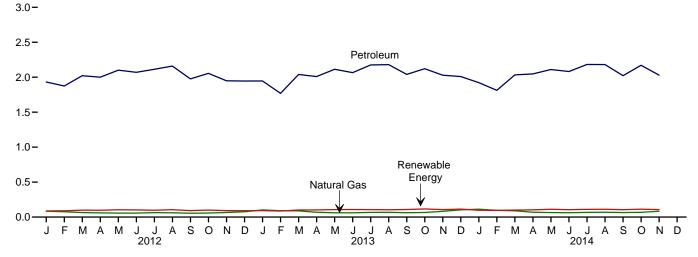
Sources: See end of section.

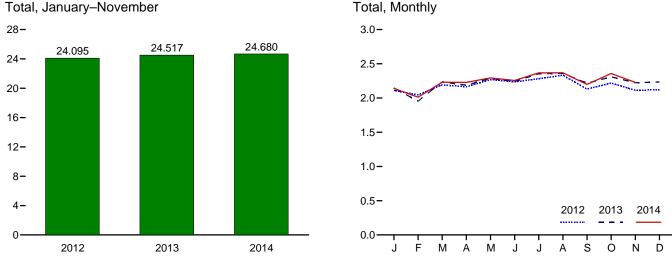
a See "Primary Energy Consumption" in Glossary.
b See Table 10.2b for notes on series components and estimation.
c Natural gas only; excludes the estimated portion of supplemental gaseous fuels. See Note 3, "Supplemental Gaseous Fuels," at end of Section 4.
d Does not include biofuels that have been blended with petroleum—biofuels are included in "Biomass."
e Includes coal coke net imports, which are not separately displayed. See Tables 1.4a and 1.4b.
f Conventional hydroelectric power.
g Electricity retail sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
Total losses are calculated as the primary energy consumed by the electric power sector minus the energy content of electricity retail sales. Total losses are allocated to the end-use sectors in proportion to each sector's share of total electricity retail sales. See Note 1, "Electrical System Energy Losses," at end of

Figure 2.5 Transportation Sector Energy Consumption (Quadrillion Btu)









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

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Table 2.5 Transportation Sector Energy Consumption

			Primary Cor						
		Fossi	Fuels		Renewable Energy ^b		Electricity	Electrical System	
	Coal	Natural Gas ^c	Petroleum ^d	Total	Biomass	Total Primary	Retail Sales ^e	Energy Losses ^f	Total
1950 Total 1955 Total 1955 Total 1960 Total 1965 Total 1970 Total 1970 Total 1970 Total 1980 Total 1980 Total 1980 Total 1980 Total 2001 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2008 Total 2008 Total 2009 Total 2009 Total 2009 Total 2001 Total 2011 Total	1,564 421 75 16 7 1 (9) (9) (9) (9) (9) (9) (9) (9) (9) (9)	130 254 359 517 745 595 650 519 680 724 672 658 699 627 602 624 625 663 692 715 719	6,690 8,799 10,125 11,866 15,310 17,615 19,009 19,472 21,626 22,959 25,689 25,419 25,917 25,969 26,872 27,236 27,538 27,506 25,888 24,955 25,184 24,740	8,383 9,474 10,560 12,399 16,062 18,210 19,659 19,992 22,306 23,683 26,361 26,077 26,616 26,596 27,474 27,860 28,163 28,170 26,580 28,170 26,580 25,670 25,903 25,474	NA NA NA NA NA NA NA 112 135 142 170 230 290 339 475 602 825 935 1,075 1,158	8,383 9,474 10,560 12,399 16,062 18,210 19,659 20,041 22,366 23,796 26,495 26,219 26,785 26,826 27,764 28,199 28,638 28,772 27,404 26,605 26,978 26,632	23 20 10 11 11 11 14 16 17 18 20 19 23 25 26 25 28 26 27 26	86 56 26 24 22 26 27 32 37 38 42 43 42 51 56 56 56 56 56	8,492 9,550 10,596 12,432 16,098 18,245 19,697 20,088 22,420 23,851 26,555 26,282 26,846 26,900 27,843 28,280 28,717 28,859 27,487 26,687 27,059 26,712
Petron July September October November Total	(9) (9) (9) (9) (9) (9) (9) (9)	84 77 65 60 57 57 63 61 55 58 66 77	1,932 R 1,875 R 2,022 R 2,000 2,102 2,071 2,114 2,160 R 1,977 R 2,055 R 1,949 1,946 R 24,202	R 2,016 1,952 R 2,087 2,060 2,159 2,128 R 2,177 R 2,221 R 2,032 R 2,113 R 2,015 R 2,022 R 24,982	87 89 99 98 104 102 98 106 92 100 92 1,159	2,104 R 2,041 R 2,186 2,158 R 2,263 R 2,230 R 2,275 R 2,327 R 2,124 2,213 R 2,107 R 2,114 R 26,140	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4 4 4 4 4 4 4 4 4 4 51	R 2,110 R 2,047 R 2,192 2,164 R 2,269 R 2,236 2,282 R 2,333 R 2,130 2,219 2,113 2,113 2,121 R 26,216
2013 January	(9) (9) (9) (9) (9)	102 91 89 69 61 61 67 68 62 65 82 103 920	R 1,947 R 1,770 R 2,039 R 2,009 R 2,1114 R 2,065 R 2,175 R 2,180 R 2,041 R 2,122 R 2,030 R 2,010 R 24,502	R 2,049 R1,860 R2,128 R2,1078 R2,176 R2,126 R2,243 R2,247 R2,103 R2,187 R2,111 R2,1113	92 86 101 102 R 106 108 107 105 108 116 107 114	R 2,141 R 1,947 R 2,229 R 2,180 R 2,282 R 2,234 R 2,349 R 2,359 R 2,303 R 2,210 R 2,210 R 2,227	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5 4 4 4 5 5 4 4 4 4 5 5 5	R 2,147 R 1,953 R 2,236 R 2,187 R 2,289 R 2,241 R 2,356 R 2,359 R 2,217 R 2,309 R 2,224 R 2,234 R 26,751
Page 2014 January	(9) (9) (9) (9) (9) (9) (9) (9)	R 112 R 96 90 70 65 R 62 67 69 65 R 68 83	R 1,923 R 1,813 R 2,034 R 2,048 R 2,111 R 2,081 R 2,182 R 2,181 R 2,022 R 2,171 2,031 22,597	R 2,035 R 1,909 R 2,124 R 2,117 R 2,175 R 2,144 R 2,250 R 2,250 R 2,087 R 2,239 2,114 23,445	98 95 100 104 111 106 111 R 105 113 107 1,162	R 2,133 R 2,004 R 2,224 R 2,227 R 2,287 R 2,250 R 2,360 R 2,361 R 2,193 R 2,352 2,222	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	555454544455 50	R 2,141 R 2,011 R 2,231 R 2,228 R 2,293 R 2,257 R 2,367 R 2,368 R 2,199 R 2,358 2,228
2013 11-Month Total 2012 11-Month Total	(g)	817 703	22,492 22,256	23,309 22,959	1,137 1,067	24,446 24,027	23 23	48 46	24,517 24,095

section.

⁹ Beginning in 1978, the small amounts of coal consumed for transportation are reported as industrial sector consumption.
R=Revised. NA=Not available.
Notes: • Data are estimates, except for coal totals through 1977; and electricity retail sales beginning in 1979. • See Note 2, "Energy Consumption Data and Surveys," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

Independent routining. 2 Columbia.

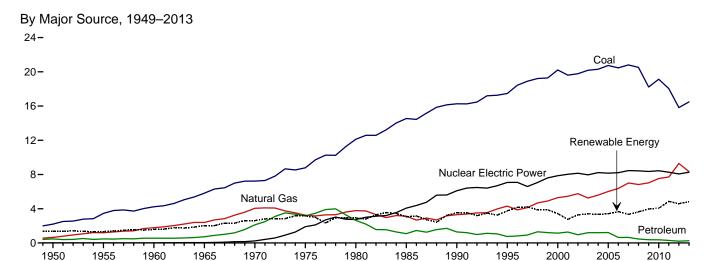
Columbia.

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

Sources: See end of section.

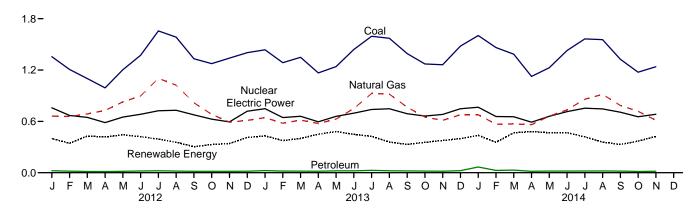
a See "Primary Energy Consumption" in Glossary.
b See Table 10.2b for notes on series components.
c Natural gas only; does not include supplemental gaseous fuels—see Note 3, "Supplemental Gaseous Fuels," at end of Section 4. Data are for natural gas consumed in the operation of pipelines (primarily in compressors) and small amounts consumed as vehicle fuel—see Table 4.3.
d Does not include biofuels that have been blended with petroleum—biofuels are included in "Biomass."
Electricity retail sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
Total losses are calculated as the primary energy consumed by the electric power sector minus the energy content of electricity retail sales. Total losses are allocated to the end-use sectors in proportion to each sector's share of total electricity retail sales. See Note 1, "Electrical System Energy Losses," at end of

Figure 2.6 Electric Power Sector Energy Consumption (Quadrillion Btu)

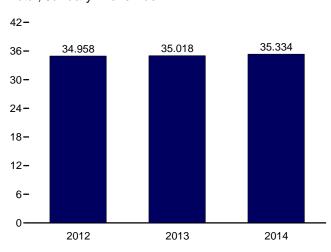


By Major Source, Monthly

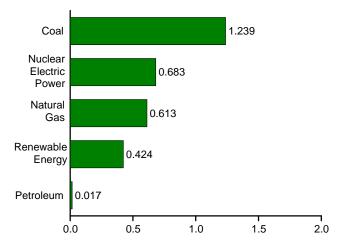
2.4-



Total, January-November



By Major Source, November 2014



Web Page: $\label{lem:http://www.eia.gov/totalenergy/data/monthly/\#consumption.} Source: Table 2.6.$

Table 2.6 **Electric Power Sector Energy Consumption**

	Primary Consumption ^a												
		Fossil	Fuels					Renewabl	e Energy ^b				
	Coal	Natural Gas ^c	Petro- leum	Total	Nuclear Electric Power	Hydro- electric Power ^d	Geo- thermal	Solar/ PV	Wind	Bio- mass	Total	Elec- tricity Net Imports ^e	Total Primary
1950 Total	2,199	651	472	3,322	0	1,346	NA	NA	NA	5	1,351	6	4,679
1955 Total	3,458 4,228	1,194 1,785	471 553	5,123 6,565	0 6	1,322 1,569	NA (a)	NA NA	NA NA	3 2	1,325	14 15	6,461
1960 Total 1965 Total	5,821	2,395	722	8,938	43	2,026	(s)	NA NA	NA NA	3	1,571 2,031	(s)	8,158 11,012
1970 Total	7,227	4,054	2,117	13,399	239	2,600	6	NA	NA	4	2,609	7	16,253
1975 Total	8,786	3,240	3,166	15,191	1,900	3,122	34	NA	NA	2	3,158	21	20,270
1980 Total1985 Total	12,123 14,542	3,778 3,135	2,634 1.090	18,534 18.767	2,739 4.076	2,867 2.937	53 97	NA (s)	NA (s)	4 14	2,925 3.049	71 140	24,269 26,032
1990 Total	16,261	3,309	1,289	20,859	6,104	3,014	161	4	29	317	3,524	8	30,495
1995 Total	17,466	4,302	755	22,523	7,075	3,149	138	5	33	422	3,747	134	33,479
2000 Total		5,293	1,144	26,658 26,348	7,862 8,029	2,768 2,209	144 142	5 6	57 70	453 337	3,427 2,763	115 75	38,062 37,215
2001 Total 2002 Total	19,783	5,458 5,767	1,276 961	26,511	8,145	2,650	147	6	105	380	3,288	73 72	38,016
2003 Total	20,185	5,246	1,205	26,636	7,960	2,749	146	5	113	397	3,411	22	38,028
2004 Total	20,305	5,595	1,201	27,101	8,223	2,655	148	6	142	388	3,339	39	38,701
2005 Total 2006 Total		6,015 6,375	1,222 637	27,974 27,474	8,161 8,215	2,670 2,839	147 145	6 5	178 264	406 412	3,406 3,665	85 63	39,626 39,417
2007 Total	20,808	7,005	648	28,461	8,459	2,430	145	6	341	423	3,345	107	40,371
2008 Total	20,513	6,829	459	27,801	8,426	2,494	146	9	546	435	3,630	112	39,969
2009 Total	18,225	7,022	382	25,630	8,355	2,650	146	9	721	441	3,967	116	38,069
2010 Total 2011 Total	19,133 18,035	7,528 7,712	370 295	27,031 26,042	8,434 8,269	2,521 3,085	148 149	12 17	923 1,167	459 437	4,064 4,855	89 127	39,619 39,293
2012 January	1,356	662	23	2,041	758	217	12	1	130	39	398	11	3,209
February	1,207	657	18	1,882	669	191	11	1	105	36	344	9	2,905
March	1,100	687	14	1,802	647	244	12	2	133	37	429	10	2,888
April May	991 1,204	728 828	14 17	1,733 2,048	585 651	248 271	12 12	3	121 119	33 36	417 442	13 15	2,749 3,156
June	1,373	897	20	2,290	683	252	12	5	114	38	421	14	3,407
July	1,658	1,102	23	2,783	724	251	13	5	84	40	392	19	3,919
August	1,585	1,023	19	2,627 2.166	729	218 166	12	4	81	40 38	355 304	19	3,730
September October	1,331 1,275	818 682	16 16	1.973	676 626	155	12 13	4 4	84 120	38 38	304	14 12	3,159 2.941
November	1,340	591	16	1,947	594	176	13	3	111	38	341	13	2,895
December	1,403	611	17	2,031	719	217	13	3	138	40	412	11	3,173
Total	15,821	9,287	214	25,322	8,062	2,606	148	40	1,339	453	4,586	161	38,131
2013 January	1,437 1,286	643 578	25 19	2,105 1,883	748 644	236 192	14 12	3 4	139 132	38 34	430 375	14 13	3,297 2,915
March	1,349	615	18	1,982	660	194	14	6	149	39	401	14	3,057
April	1,167	574	18	1,758	595	233	13	7	164	33	450	12	2,814
May	1,240	626	22	1,888	659	269	13	8	155	38	481	16	3,044
June July	1,440 1.594	750 926	22 28	2,212 2.548	696 739	257 256	13 13	9 8	131 106	39 41	449 425	17 18	3,374 3,730
August	1,571	918	23	2,512	748	204	13	9	91	41	359	19	3,638
September	1,393	766	21	2,179	690	159	13	9	111	39	331	15	3,215
October	1,271	650	19	1,941	662	163	14	9	130	39	355	13	2,971
November December	1,262 1,480	612 677	17 23	1,891 2,181	681 747	167 200	12 14	7 7	151 134	40 44	377 398	15 13	2,963 3.339
Total	16,489	8,338	255	25,081	8,268	2,529	157	85	1,595	465	4,831	179	38,359
2014 January	1,603	677	67	2,347	766	202	13	7	171	43	437	13	3,563
February	1,463	567 570	27	2,056	656 654	163 229	12 13	8 13	133 169	39 44	355 467	9 11	3,077 3,118
March April	1,386 1,126	570 561	31 17	1,987 1,703	654 591	229	13 13	13 15	169 178	44 38	467 481	11 10	2,785
May	1,120	661	19	1,703	660	250	13	17	148	40	468	14	3,049
June	1,428	735	20	2,182	714	244	13	19	149	43	468	13	3,378
July	1,563	859	20	2,441	754 745	229	13	17	115	45	419	16	3,631
August September	1,555 1,326	915 786	20 19	2,491 2,131	745 708	186 149	13 13	18 18	97 109	44 41	358 330	18 16	3,612 3,185
October	1,175	717	15	1,907	654	160	13	16	138	42	369	14	2,944
November	1,239	613	17	1,869	683	175	13	13	181	42	424	16	2,992
11-Month Total	15,091	7,661	271	23,023	7,584	2,226	142	161	1,588	461	4,578	149	35,334
2013 11-Month Total 2012 11-Month Total		7,660 8,675	231 197	22,900 23,290	7,521 7,343	2,329 2,389	144 135	78 36	1,460	421	4,432 4,174	165 150	35,018

output. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • See Note 2, "Energy Consumption Data and Surveys," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

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

Sources: See end of section.

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

Energy Consumption by Sector

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

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

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

Table 2.2 Sources

Coal

1949–2007: Residential sector coal consumption data from Table 6.2 are converted to Btu by multiplying by the residential and commercial sectors coal consumption heat content factors in Table A5.

Natural Gas

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

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

Petroleum

1949 forward: Table 3.8a.

Fossil Fuels Total

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

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

Renewable Energy

1949 forward: Table 10.2a.

Total Primary Energy Consumption

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

Electricity Retail Sales

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

Electrical System Energy Losses

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

retail sales from Table 7.6. See Note 1, "Electrical System Energy Losses," at end of section.

Total Energy Consumption

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

Table 2.3 Sources

Coal

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

Natural Gas

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

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

Petroleum

1949-1992: Table 3.8a.

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

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

Fossil Fuels Total

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

Renewable Energy

1949 forward: Table 10.2a.

Total Primary Energy Consumption

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

Electricity Retail Sales

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

Electrical System Energy Losses

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

Total Energy Consumption

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

Table 2.4 Sources

Coal

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

Natural Gas

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

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

Section 4. Industrial sector natural gas (excluding supplemental gaseous fuels) consumption is equal to industrial sector natural gas (including supplemental gaseous fuels) consumption minus the industrial sector portion of supplemental gaseous fuels.

Petroleum

1949-1992: Table 3.8b.

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

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

Coal Coke Net Imports

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

Fossil Fuels Total

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

Renewable Energy

1949 forward: Table 10.2b.

Total Primary Energy Consumption

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

Electricity Retail Sales

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

Electrical System Energy Losses

1949 forward: Total electrical system energy losses are equal to electric power sector total primary energy consumption from Table 2.6 minus total electricity retail sales from Table 7.6 (converted to Btu by multiplying by the

electricity heat content factor in Table A6). Total electrical system energy losses are allocated to the industrial sector in proportion to the industrial sector's share of total electricity retail sales from Table 7.6. See Note 1, "Electrical System Energy Losses," at end of section.

Total Energy Consumption

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

Table 2.5 Sources

Coal

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

Natural Gas

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

Petroleum

1949-1992: Table 3.8c.

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

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

Fossil Fuels Total

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

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

Renewable Energy

1981 forward: Table 10.2b.

Total Primary Energy Consumption

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

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

Electricity Retail Sales

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

Electrical System Energy Losses

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

Total Energy Consumption

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

Table 2.6 Sources

Coal

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

Natural Gas

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

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

Petroleum

1949 forward: Table 3.8c.

Fossil Fuels Total

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

Nuclear Electric Power

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

Renewable Energy

1949 forward: Table 10.2c.

Electricity Net Imports

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

Total Primary Energy Consumption

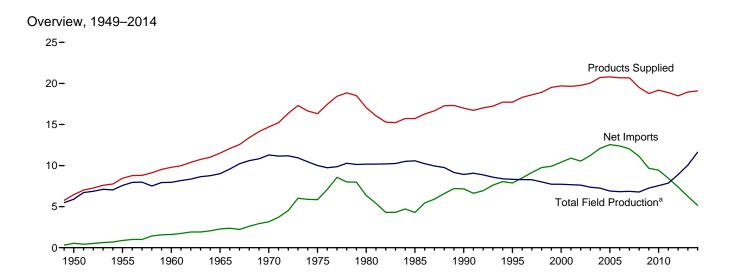
1949 forward: Electric power sector total primary energy consumption is the sum of the electric power sector consumption values for fossil fuels, nuclear electric power, and renewable energy, plus electricity net imports.

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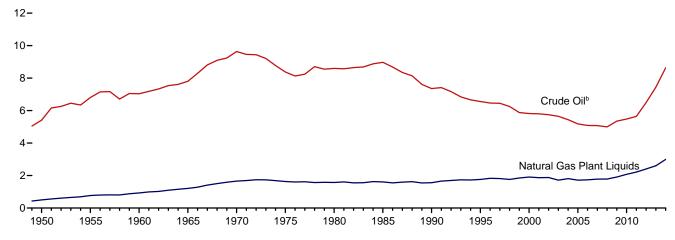
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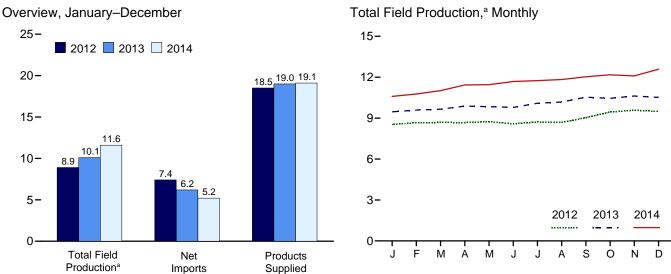
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Figure 3.1 Petroleum Overview (Million Barrels per Day)



Crude Oil and Natural Gas Plant Liquids Field Production, 1949-2014





 $^{^{\}rm a}$ Crude oil, including lease condensate, and natural gas plant liquids field production.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#petroleum. Source: Table 3.1.

^b Includes lease condensate.

Table 3.1 Petroleum Overview

	Field Production ^a								Trade				
		Crude Oil				Renew- able							
	48 States ^d	Alaska	Total	NGPLe	Total ^c	Fuels and Oxy- genates ^f	Process- ing Gain ^g	lm- ports ^h	Ex- ports	Net Imports ⁱ	Stock Change ^j	Adjust- ments ^{c,k}	Petroleum Products Supplied
1950 Average 1955 Average	5,407 6,807	0	5,407 6,807	499 771	5,906 7,578	NA NA	2 34	850 1,248	305 368	545 880	-56 (s)	-51 -37	6,458 8,455
1960 Average 1965 Average	7,034 7,774	2 30	7,035 7,804	929 1,210	7,965 9,014	NA NA	146 220	1,815 2,468	202 187	1,613 2,281	-83 -8	-8 -10	9,797 11,512
1970 Average	9,408	229	9,637	1,660	11,297	NA	359	3,419	259	3,161	103	-16	14,697
1975 Average 1980 Average	8,183 6,980	191 1,617	8,375 8,597	1,633 1,573	10,007 10,170	NA NA	460 597	6,056 6,909	209 544	5,846 6,365	32 140	41 64	16,322 17,056
1985 Average	7,146	1,825	8,971	1,609	10,581	NA	557	5,067	781	4,286	-103	200	15,726
1990 Average 1995 Average	5,582 5,076	1,773 1,484	7,355 6,560	1,559 1,762	8,914 8,322	NA NA	683 774	8,018 8,835	857 949	7,161 7,886	107 -246	338 496	16,988 17,725
2000 Average	4,851	970	5,822	1,911	7,733	NA	948	11,459	1,040	10,419	-69	532	19,701
2001 Average 2002 Average	4,839 4,759	963 985	5,801 5,744	1,868 1,880	7,670 7,624	NA NA	903 957	11,871 11,530	971 984	10,900 10,546	325 -105	501 529	19,649 19,761
2003 Average	4,675	974	5,649	1,719	7,369	NA	974	12,264	1,027	11,238	56	509	20,034
2004 Average 2005 Average	4,533 4,317	908 864	5,441 5,181	1,809 1,717	7,250 6,898	NA NA	1,051 989	13,145 13,714	1,048 1,165	12,097 12,549	209 145	542 510	20,731 20,802
2006 Average	4,347	741	5,088	1,739	6,827	NA	994	13,707	1,317	12,390	60	536	20,687
2007 Average 2008 Average	4,355 4,317	722 683	5,077 5,000	1,783 1,784	6,860 6,783	NA NA	996 993	13,468 12,915	1,433 1,802	12,036 11,114	-148 195	640 803	20,680 19,498
2009 Average	4,705	645	5,350	1,910	7,260	746	979	11,691	2,024	9,667	109	229	18,771
2010 Average 2011 Average	4,882 5,084	600 561	5,482 5,645	2,074 2,216	7,556 7,861	907 1,016	1,068 1,076	11,793 11,436	2,353 2,986	9,441 8,450	49 -121	258 357	19,180 18,882
2012 January February	5,560 5,680	593 582	6,153 6,262	2,384 2,401	8,537 8,662	1,022 1,013	1,053 1,064	10,910 10,490	2,870 2,994	8,041 7,496	726 -179	377 229	18,304 18,643
March	5,730	567	6,297	2,385	8,682	991	1,074	10,605	3,116	7,489	519	446	18,164
April May	5,744 5,796	552 546	6,296 6,342	2,379 2,393	8,675 8,735	1,002 1,017	1,027 1,089	10,611 11,117	3,272 3,207	7,339 7,910	33 366	201 204	18,211 18,589
June	5,759	493	6,252	2,338	8,590	1,003	1,100	11,424	3,216	8,208	478	434	18,857
July August	5,976 5,914	415 404	6,391 6,318	2,327 2,371	8,717 8,689	928 954	1,065 1,045	10,794 10,880	3,237 3,081	7,556 7,798	91 -401	339 268	18,515 19,156
September	6,072	502	6,574	2,462	9,036	920	1,001	10,475	3,164	7,312	631	454	18,092
October November	6,395 6,491	547 553	6,941 7,044	2,507 2,536	9,448 9,580	901 913	1,006 1,032	10,047 10,181	3,255 3,404	6,793 6,777	-304 11	254 236	18,705 18,528
December	6,526 5,971	555 526	7,081 6,497	2,415 2,408	9,496 8,905	904 964	1,152 1,059	9,644 10,598	3,636 3,205	6,008 7,393	-85 158	475 327	18,120 18,490
Average 2013 January	R 6,537	549	R 7 086	2,379	R 9,464	891	1,059	10,089	2,881	7,208	98	R 224	18,749
February	R 6,561	541	R 7,101	2,490	R 9,591	905	966	9,286	3,280	6,007	-738	R 436	18,643
March April	^R 6,640 ^R 6,842	533 523	^R 7,173 ^R 7,365	2,485 2,513	R 9,657 R 9,878	950 971	1,012 1,093	9,534 10,168	3,111 3,235	6,423 6,933	92 491	^R 581 ^R 201	18,531 18,584
May	R 6,769	515	^R 7,285	2,556	R 9,841	1,011	1,039	10,174	3,472	6,703	291	R 476	18,779
June July		486 493	R 7,243 R 7,472	2,542 2,618	R 9,785 R 10,091	1,034 1,021	1,087 1,132	9,882 10,300	3,594 3,851	6,288 6.449	72 -37	R 684 R 527	18,806 19,257
August	R 7,040	428 511	^R 7,469 ^R 7,745	2,715 2,791	R 10,184 R 10,536	1,004 998	1,115	10,249 10,036	3,725 3,632	6,524 6,405	162 353	R 460 R 529	19,125 19,252
September October	R 7.164	521	^R 7,684	2,766	R 10,451	1,052	1,136 1,085	9,608	4,074	5,535	-754	R 436	19,232
November	R 7,342	536 546	R 7,877 R 7,858	2,747 2,660	R 10,624 R 10,518	1,083 1,102	1,126 1,179	9,385 9,539	3,967 4,602	5,419 4,938	-688 -903	^R 550 ^R 343	19,491 18,983
December Average	R 6,933	515	R 7,448	2,600 2,606	R 10,054	1,102 1, 002	1,087	9,859 9,859	3,621	6,237	-903 - 127	R 454	18,961
2014 January February	KE 7 568	RE 542 RE 515	RE 7,955 RE 8,083	2,639 2,684	RE 10,594 RE 10,767	1,002 1,019	1,118 1,080	9,264 9,151	4,021 3,611	5,243 5,540	-561 14	R 402 R 600	18,921 18,994
March	KE 7.694	RE 530	RE 8,224	2,793	RE 11,017	1,025	1,009	9,240	3,858	5,382	323	^R 416	18,526
April May	RE 8.053	RE 537 RE 524	RE 8,516 RE 8,577		RE 11,434 RE 11,458	1,044 1,058	1,080 1,027	9,584 9,380	3,966 4,121	5,618 5,260	906 935	^R 514 ^R 648	18,783 18,516
June	RE 8,152	RE 485	RE 8,637	3,044	RE 11,681	1,088	1,125	8,815	4,156	4,659	150	R 429	18,833
July August	RE 8,346	RE 422 RE 398	RE 8,686 RE 8,743	3,087	RE 11,748 RE 11,830	1,092 1,035	1,108 1,162	9,472 9,309	4,479 4,533	4,994 4,776	130 127	^R 352 ^R 599	19,164 19,276
September	KE 8,425	RE 477 RE 500	RE 8,902 RE 9,051	3.125	RE 12,028	1,048	1,010	9,152	3,962	5,190	445	R 209 R 440	19,039
October November	RE 8,503	RE 517	RE 9,020	R 3,073	RE 12,177 RE 12,093	1,037 R 1,052	1,024 R 1,180	8,905 R 8,967	4,112 R 4,370	4,793 R 4,598	-158 R 393	R 676	19,630 R 19,206
December Average	- 8.609	E 519 RE 497	E 9,128 RE 8,630	E 3,460 RE 2,993	E 12,588 RE 11,623	E 1,033 RE 1.045	E 1,139 RE 1.088	E 9,650 RE 9.243	E 3,766 RE 4,083	E 5,884 RE 5.160	E 748 RE 288	E 232 RE 459	E 20,128 RE 19,087

^a Crude oil production on leases, and natural gas liquids (liquefied petroleum gases, pentanes plus, and a small amount of finished petroleum products) production at natural gas processing plants. Excludes what was previously classified as "Field Production" of finished motor gasoline, motor gasoline blending components, and other hydrocarbons and oxygenates; these are now included in "Adiustments"

[&]quot;Adjustments.

[&]quot;Adjustments."

b Includes lease condensate.

c Once a month, data for crude oil production, total field production, and adjustments are revised going back as far as the data year of the U.S. Energy Information Administration's (EIA) last published Petroleum Supply Annual (PSA)—these revisions are released at the same time as EIA's Petroleum Supply Monthly. Once a year, data for these series are revised going back as far as 10 years—these revisions are released at the same time as the PSA.

d United States excluding Alaska and Hawaii.

e Natural gas plant liquids.
f Renewable fuels and oxygenate plant net production.
g Refinery and blender net production minus refinery and blender net inputs.
See Table 3.2.
h Includes Strategic Petroleum Reserve imports. See Table 3.3b.

Net imports equal imports minus exports.

A negative value indicates a decrease in stocks and a positive value indicates an increase. The current month stock change estimate is based on the change from the previous month's estimate, rather than the stocks values shown in Table 3.4. Includes crude oil stocks in the Strategic Petroleum Reserve, but excludes distillate fuel oil stocks in the Northeast Home Heating Oil Reserve. See Table 3.4.

An adjustment for crude oil, hydrogen, oxygenates, renewable fuels, other hydrocarbons, motor gasoline blending components, finished motor gasoline, and distillate fuel oil. See ElA's Petroleum Supply Monthly, Appendix B, "PSM Explanatory Notes," for further information.

R=Revised. E=Estimate. NA=Not available. (s)=Less than 500 barrels per day and greater than -500 barrels per day.

Notes:

Notes:

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

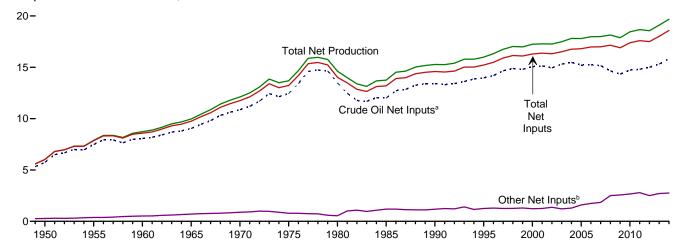
Geographic coverage is the 50 states and the District of Columbia.

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

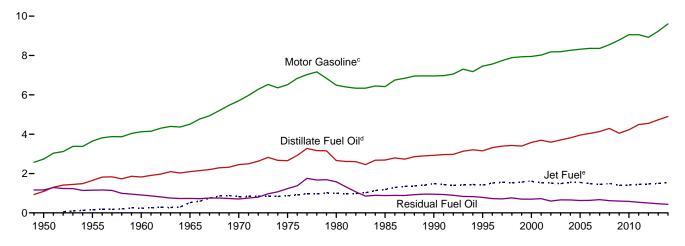
beginning in 1973.
Sources: See end of section.

Figure 3.2 Refinery and Blender Net Inputs and Net Production (Million Barrels per Day)

Net Inputs and Net Production, 1949-2014



Net Production, Selected Products, 1949-2014



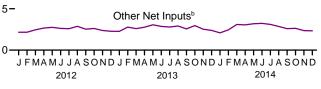
12-



20 – Total Net Production

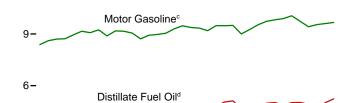
15 – Crude Oil Net Inputs^a

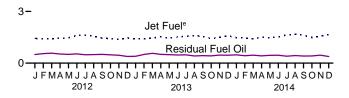
Total Net Inputs



^a Includes lease condensate.

Net Production, Selected Products, Monthly





sel) blended into distillate fuel oil.

25-

^b Natural gas plant liquids and other liquids.

^cBeginning in 1993, includes fuel ethanol blended into motor gasoline.

^d Beginning in 2009, includes renewable diesel fuel (including biodie-

e Beginning in 2005, includes kerosene-type jet fuel only.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#petroleum. Source: Table 3.2.

Table 3.2 Refinery and Blender Net Inputs and Net Production

	Dofine	ery and Ble	nder Net I	nnuteâ			Pofinory	and Blon	der Net Pro	ductionb		
	Keiiiie	and bie	inder Net i	nputs					der Net Pro	Juction		
	Crude Oil ^d	NGPLe	Other Liquids ^f	Total	Distillate Fuel Oil ⁹	Jet Fuel ^h	Propane ⁱ	Total	Motor Gasoline ^j	Residual Fuel Oil	Other Products ^k	Total
1950 Average 1955 Average 1960 Average 1965 Average	5,739 7,480 8,067 9,043 10,870	259 345 455 618 763	19 32 61 88 121	6,018 7,857 8,583 9,750 11,754	1,093 1,651 1,823 2,096 2,454	(h) 155 241 523 827	NA NA NA NA	80 119 212 293 345	2,735 3,648 4,126 4,507 5,699	1,165 1,152 908 736 706	947 1,166 1,420 1,814 2,082	6,019 7,891 8,729 9,970 12,113
1975 Average	12,442 13,481 12,002 13,409 13,973 15,067 15,128 14,947	710 462 509 467 471 380 429 429	72 81 681 713 775 849 825 941	13,225 14,025 13,192 14,589 15,220 16,295 16,382 16,316	2,653 2,661 2,686 2,925 3,155 3,580 3,695 3,592	871 999 1,189 1,488 1,416 1,606 1,530 1,514	234 269 295 404 503 583 556 572	311 330 391 499 654 705 667 671	6,518 6,492 6,419 6,959 7,459 7,951 8,022 8,183	1,235 1,580 882 950 788 696 721 601	2,097 2,559 2,183 2,452 2,522 2,705 2,651 2,712	13,685 14,622 13,750 15,272 15,994 17,243 17,285 17,273
2003 Average	15,304 15,475 15,220 15,242 15,156 14,648 14,336 14,724 14,806	419 422 441 501 505 485 485 442 490	791 866 1,149 1,238 1,337 2,019 2,082 2,219 2,300	16,513 16,762 16,811 16,981 16,999 17,153 16,904 17,385 17,596	3,707 3,814 3,954 4,040 4,133 4,294 4,048 4,223 4,492	1,488 1,547 1,546 1,481 1,448 1,493 1,396 1,418 1,449	570 584 540 543 562 519 537 560 552	658 645 573 627 655 630 623 659 619	8,194 8,265 8,318 8,364 8,358 8,548 8,786 9,059 9,058	660 655 628 635 673 620 598 585 537	2,780 2,887 2,782 2,827 2,728 2,561 2,431 2,509 2,518	17,487 17,814 17,800 17,975 17,994 18,146 17,882 18,452 18,673
2012 January	14,374 14,615 14,476 14,609 15,097 15,637 15,665 15,325 14,910 14,843 15,085 15,330 14,999	512 532 445 451 432 442 439 436 523 622 627 646 509	1,644 1,627 2,008 2,208 2,317 2,182 2,149 2,436 2,003 1,997 1,747 1,627 1,997	16,531 16,774 16,929 17,269 17,846 18,261 18,253 18,197 17,436 17,462 17,460 17,604	4,500 4,408 4,263 4,352 4,547 4,632 4,660 4,566 4,510 4,669 4,884 4,550	1,437 1,402 1,412 1,434 1,469 1,610 1,613 1,560 1,450 1,419 1,374 1,466 1,471	531 542 545 558 568 585 569 543 522 541 550 579 553	421 503 688 835 858 841 848 779 553 470 364 390 630	8,385 8,606 8,705 8,720 8,950 9,157 9,073 9,237 8,888 9,176 9,156 9,051 8,926	500 548 577 525 509 538 486 495 508 481 458 388 501	2,341 2,372 2,359 2,430 2,603 2,583 2,640 2,571 2,474 2,414 2,471 2,578 2,487	17,584 17,838 18,004 18,295 18,936 19,360 19,319 19,242 18,438 18,468 18,492 18,756 18,564
2013 January	14,567 14,230 14,703 14,864 15,305 15,833 16,042 15,793 15,636 14,991 15,633 16,069 15,312	543 506 490 429 379 426 427 444 560 567 595 589 496	1,727 2,270 2,108 2,342 2,683 2,443 2,358 2,471 2,006 2,398 1,935 1,791 2,211	16,838 17,007 17,301 17,636 18,367 18,702 18,827 18,708 18,202 17,956 18,163 18,449 18,019	4,480 4,281 4,284 4,416 4,767 4,792 4,934 4,930 4,888 4,815 5,050 5,122 4,733	1,414 1,402 1,461 1,524 1,450 1,522 1,561 1,605 1,544 1,426 1,491 1,586 1,499	543 536 559 561 574 566 575 584 574 542 557 600 564	410 477 648 814 860 841 858 829 630 418 301 376 623	8,718 8,926 8,971 9,042 9,299 9,472 9,374 9,340 9,190 9,484 9,476 9,495 9,234	395 504 569 508 488 469 481 417 434 420 466 455 467	2,481 2,383 2,379 2,424 2,542 2,694 2,750 2,702 2,652 2,478 2,505 2,594 2,550	17,898 17,973 18,312 18,729 19,407 19,789 19,959 19,823 19,338 19,041 19,290 19,628 19,106
2014 January	E 16 302	524 531 495 433 427 430 415 426 543 8656 RF 618 RE 507	1,555 1,919 2,605 2,620 2,757 2,808 2,694 2,432 2,058 2,046 R 1,695 RE 1,715 RE 2,244	17,379 17,572 18,226 18,919 19,129 19,055 19,641 19,314 18,660 17,977 R 18,394 RF 18,725 RE 18,589	4,656 4,572 4,754 4,980 5,020 4,889 5,014 5,030 4,923 4,656 8,5,012 E 5,236 RE 4,897	1,477 1,450 1,417 1,496 1,468 1,519 1,637 1,672 1,616 1,481 R 1,570 E 1,653 RE 1,539	584 573 564 600 597 597 614 602 552 528 R 603 RE 638 RE 588	414 518 676 864 887 910 890 619 451 R 387 F 373 RE 656	8,999 9,259 9,533 9,733 9,823 9,890 10,052 9,734 9,418 9,541 R 9,603 E 9,670 RE 9,607	480 428 463 422 455 456 402 439 410 R 461 E 385 RE 435	2,471 2,426 2,393 2,504 2,553 2,733 2,712 2,684 2,457 R 2,542 RE 2,547 RE 2,544	18,497 18,652 19,235 19,999 20,156 20,180 20,749 20,476 19,670 19,002 R 19,574 RE 19,864 RE 19,864

gasoline.

k Asphalt and road oil, kerosene, lubricants, petrochemical feedstocks, petroleum coke, still gas (refinery gas), waxes, and miscellaneous products. Through 1964, also includes kerosene-type jet fuel. Beginning in 1964, also includes finished aviation gasoline and special naphthas. Beginning in 2005, also includes naphtha-type jet fuel.

R=Revised. E=Estimate. F=Forecast. NA=Not available.

Notes: • 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/#petroleum (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Sources: • 1949–1975: Bureau of Mines, Mineral Industry Surveys, Petroleum Statement, Annual, annual reports. • 1976–1980: U.S. Energy Information Administration (EIA), Energy Data Reports, Petroleum Statement, Annual, annual reports. • 2014: EIA, Petroleum Supply Annual, annual reports. • 2014: EIA, Petroleum Status Report data system, Short-Term Integrated Forecasting System, and Monthly Energy Review data system calculations.

See "Refinery and Blender Net Inputs" in Glossary. See "Refinery and Blender Net Production" in Glossary.

Liquefied petroleum gases. Includes lease condensate.

d Includes lease condensate.

e Natural gas plant liquids (liquefied petroleum gases and pentanes plus).

f Unfinished oils (net), other hydrocarbons, and hydrogen. Beginning in 1981, also includes aviation and motor gasoline blending components (net). Beginning in 1993, also includes oxygenates (net), including fuel ethanol. Beginning in 2009, also includes renewable diesel fuel (including biodiesel).

g Beginning in 2009, includes renewable diesel fuel (including biodiesel) blended into distillate fuel oil.

h Beginning in 1965, includes kerosene-type jet fuel. (Through 1964, kerosene-type jet fuel is included with kerosene in 'Other Products.') Forducts.'' per fuel is included in the products from which it was blended—gasoline, kerosene, and distillate fuel oil. Beginning in 2005, naphtha-type jet fuel is included in "Other Products.")

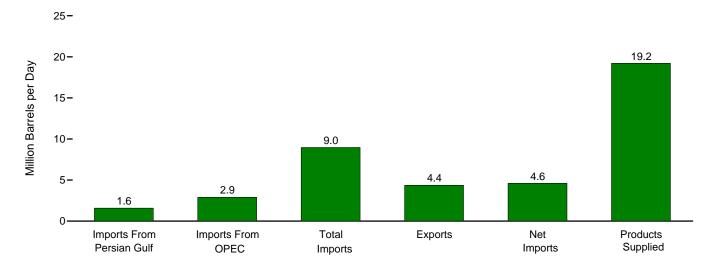
Products.")

Includes propylene.

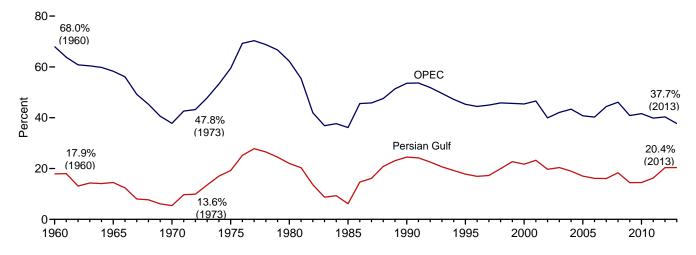
Finished motor gasoline. Through 1963, also includes aviation gasoline and special naphthas. Beginning in 1993, also includes fuel ethanol blended into motor

Figure 3.3a Petroleum Trade: Overview

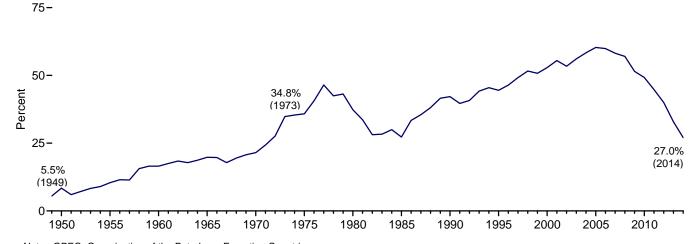
Overview, November 2014



Imports From OPEC and Persian Gulf as Share of Total Imports, 1960–2013



Net Imports as Share of Products Supplied, 1949–2014



Note: OPEC=Organization of the Petroleum Exporting Countries. Web Page: http://www.eia.gov/totalenergy/data/monthly/#petroleum.

Source: Table 3.3a.

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Table 3.3a Petroleum Trade: Overview

									nare of Supplied			nare of Imports
	Imports From Persian Gulf ^a	Imports From OPEC ^b	Imports	Exports	Net Imports	Products Supplied	Imports From Persian Gulf ^a	Imports From OPEC ^b	Imports	Net Imports	Imports From Persian Gulf ^a	Imports From OPEC ^b
			Thousand Ba	arrels per Da	у				Pe	rcent		
1950 Average 1955 Average 1960 Average	NA NA 326	NA NA 1.233	850 1,248 1,815	305 368 202	545 880 1.613	6,458 8,455 9,797	NA NA 3.3	NA NA 12.6	13.2 14.8 18.5	8.4 10.4 16.5	NA NA 17.9	NA NA 68.0
1965 Average 1970 Average 1975 Average	359 184 1,165	1,439 1,294 3,601	2,468 3,419 6,056	187 259 209	2,281 3,161 5,846	11,512 14,697 16,322	3.1 1.3 7.1	12.5 8.8 22.1	21.4 23.3 37.1	19.8 21.5 35.8	14.5 5.4 19.2	58.3 37.8 59.5
1980 Average 1985 Average 1990 Average	1,519 311 1,966 1,573	4,300 1,830 4,296 4,002	6,909 5,067 8,018 8,835	544 781 857 949	6,365 4,286 7,161 7,886	17,056 15,726 16,988 17,725	8.9 2.0 11.6 8.9	25.2 11.6 25.3 22.6	40.5 32.2 47.2 49.8	37.3 27.3 42.2 44.5	22.0 6.1 24.5 17.8	62.2 36.1 53.6 45.3
1995 Average 2000 Average 2001 Average 2002 Average	2,488 2,761 2,269	5,203 5,528 4,605	11,459 11,871 11,530	1,040 971 984	10,419 10,900 10,546	17,725 19,701 19,649 19,761	12.6 14.1 11.5	26.4 28.1 23.3	58.2 60.4 58.3	52.9 55.5 53.4	21.7 23.3 19.7	45.4 46.6 39.9
2003 Average	2,501	5,162 5,701 5,587 5,517	12,264 13,145 13,714 13,707	1,027 1,048 1,165 1,317	11,238 12,097 12,549 12,390	20,034 20,731 20,802 20,687	12.5 12.0 11.2 10.7	25.8 27.5 26.9 26.7	61.2 63.4 65.9 66.3	56.1 58.4 60.3 59.9	20.4 19.0 17.0 16.1	42.1 43.4 40.7 40.2
2007 Average	2,163 2,370 1,689	5,980 5,954 4,776 4,906	13,468 12,915 11,691 11,793	1,433 1,802 2,024 2,353	12,036 11,114 9,667 9,441	20,680 19,498 18,771 19,180	10.5 12.2 9.0 8.9	28.9 30.5 25.4 25.6	65.1 66.2 62.3 61.5	58.2 57.0 51.5 49.2	16.1 18.4 14.4 14.5	44.4 46.1 40.9 41.6
2011 Average	1,861	4,555	11,436	2,986	8,450	18,882	9.9	24.1	60.6	44.8	16.3	39.8
2012 January	2,209 2,236 2,628	4,159 3,989 4,301 4,402 4,730 4,655	10,910 10,490 10,605 10,611 11,117 11,424	2,870 2,994 3,116 3,272 3,207 3,216	8,041 7,496 7,489 7,339 7,910 8,208	18,304 18,643 18,164 18,211 18,589 18,857	11.8 10.4 12.2 12.3 14.1 12.7	22.7 21.4 23.7 24.2 25.4 24.7	59.6 56.3 58.4 58.3 59.8 60.6	43.9 40.2 41.2 40.3 42.6 43.5	19.8 18.6 20.8 21.1 23.6 21.0	38.1 38.0 40.6 41.5 42.5 40.7
July August September October November	2,154 2,071 2,071 2,142 2,100	4,387 4,385 4,272 4,187 4,228	10,794 10,880 10,475 10,047 10,181	3,237 3,081 3,164 3,255 3,404	7,556 7,798 7,312 6,793 6,777	18,515 19,156 18,092 18,705 18,528	11.6 10.8 11.4 11.5 11.3	23.7 22.9 23.6 22.4 22.8	58.3 56.8 57.9 53.7 55.0	40.8 40.7 40.4 36.3 36.6	20.0 19.0 19.8 21.3 20.6	40.6 40.3 40.8 41.7 41.5
December Average	1,751	3,556 4,271	9,644 10,598	3,636 3,205	6,008 7,393	18,120 18,490	9.7 11.7	19.6 23.1	53.2 57.3	33.2 40.0	18.2 20.3	36.9 40.3
2013 January February March April	1,838 2,087 1,804	3,866 3,115 3,741 3,799	10,089 9,286 9,534 10,168	2,881 3,280 3,111 3,235	7,208 6,007 6,423 6,933	18,749 18,643 18,531 18,584	9.6 9.9 11.3 9.7	20.6 16.7 20.2 20.4	53.8 49.8 51.5 54.7	38.4 32.2 34.7 37.3	17.8 19.8 21.9 17.7	38.3 33.5 39.2 37.4
May June July August September	2,160 2,146	4,064 3,837 3,789 3,901 3,921	10,174 9,882 10,300 10,249 10,036	3,472 3,594 3,851 3,725 3,632	6,703 6,288 6,449 6,524 6,405	18,779 18,806 19,257 19,125 19,252	11.4 10.1 10.0 11.3 11.1	21.6 20.4 19.7 20.4 20.4	54.2 52.5 53.5 53.6 52.1	35.7 33.4 33.5 34.1 33.3	21.0 19.2 18.7 21.1 21.4	39.9 38.8 36.8 38.1 39.1
October November December Average	2,143 2,225	3,411 3,535 3,613 3,720	9,608 9,385 9,539 9,859	4,074 3,967 4,602 3,621	5,535 5,419 4,938 6,237	19,312 19,491 18,983 18,961	10.0 11.0 11.7 10.6	17.7 18.1 19.0 19.6	49.8 48.2 50.3 52.0	28.7 27.8 26.0 32.9	20.1 22.8 23.3 20.4	35.5 37.7 37.9 37.7
2014 January February March April	2,172 2,117 2,274	3,314 3,398 3,380 3,668	9,264 9,151 9,240 9,584	4,021 3,611 3,858 3,966	5,243 5,540 5,382 5,618	18,921 18,994 18,526 18,783	11.6 11.4 11.4 12.1	17.5 17.9 18.2 19.5	49.0 48.2 49.9 51.0	27.7 29.2 29.0 29.9	23.6 23.7 22.9 23.7	35.8 37.1 36.6 38.3
MayJune	1,929 1,941 2,145 1,778 1,644	3,313 3,251 3,598 3,272 3,215	9,380 8,815 9,472 9,309 9,152	4,121 4,156 4,479 4,533 3,962	5,260 4,659 4,994 4,776 5,190	18,516 18,833 19,164 19,276 19,039	10.4 10.3 11.2 9.2 8.6	17.9 17.3 18.8 17.0 16.9	50.7 46.8 49.4 48.3 48.1	28.4 24.7 26.1 24.8 27.3	20.6 22.0 22.6 19.1 18.0	35.3 36.9 38.0 35.1 35.1
October November December Average	1,381 R 1,584 NA NA	2,628 R 2,911 NA NA	8,905 R 8,967 E 9,650 RE 9,243	4,112 R 4,370 E 3,766 RE 4,083	4,793 R 4,598 E 5,884 RE 5,160	19,630 R 19,206 E 20,128 RE 19,087	7.0 R 8.2 NA NA	13.4 R 15.2 NA NA	45.4 R 46.7 E 47.9 RE 48.4	24.4 R 23.9 E 29.2 RE 27.0	15.5 R 17.7 NA NA	29.5 R 32.5 NA NA

a Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, United Arab Emirates, and the Neutral Zone (between Kuwait and Saudi Arabia).
b See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary. See Table 3.3c for notes on which countries are included in the data.
R=Revised. E=Estimate. NA=Not available.
Notes: • For the feature article "Measuring Dependence on Imported Oil." published in the August 1995 Monthly Energy Review, see http://www.eia.gov/totalenergy/data/monthly/pdf/historical/imported_oil.pdf.
• Beginning in October 1977, data include Strategic Petroleum Reserve imports. See Table 3.3b. • Annual averages may not equal average of months due to independent rounding. • U.S. geographic coverage is the 50 states and the District of Columbia. U.S. exports include shipments to U.S. territories, and imports include

receipts from U.S. territories.

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

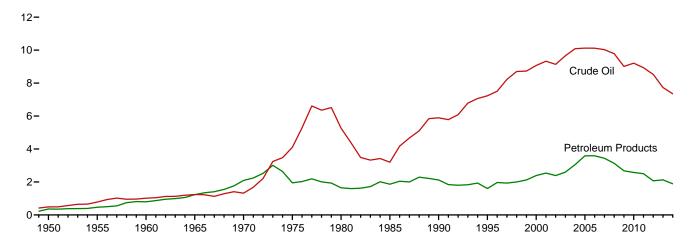
and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Sources: • 1949–1975: Bureau of Mines, Mineral Industry Surveys, Petroleum Statement, Annual, annual reports. • 1976–1980: U.S. Energy Information Administration (EIA), Energy Data Reports, Petroleum Statement, Annual, annual reports. • 1981–2013: EIA, Petroleum Supply Annual, annual reports, and unpublished revisions. • 2014: EIA, Petroleum Supply Monthly, monthly reports; and, for the current month, Weekly Petroleum Status Report data system and Monthly Energy Review data system calculations.

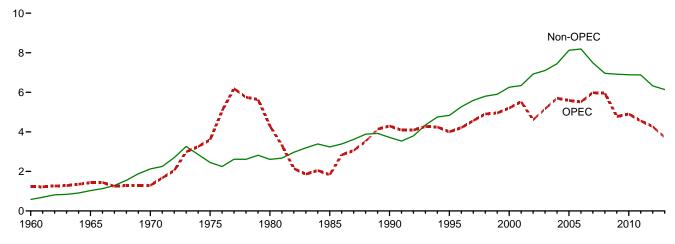
Figure 3.3b Petroleum Trade: Imports

(Million Barrels per Day)

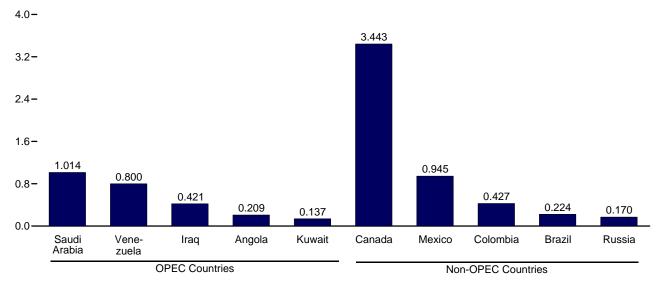
Overview, 1949-2014



OPEC and Non-OPEC, 1960-2013



From Selected Countries, November 2014



Note: OPEC=Organization of the Petroleum Exporting Countries. Web Page: http://www.eia.gov/totalenergy/data/monthly/#petroleum. Sources: Tables 3.3b–3.3d

Table 3.3b Petroleum Trade: Imports and Exports by Type

			7.0 por 2		Im	ports						Exports	
	Cru	de Oila			LPG								
	SPRC	Total	Distillate Fuel Oil	Jet Fuel ^d	Propanee	Total	Motor Gasoline ^f	Residual Fuel Oil	Other ^g	Total	Crude Oila	Petroleum Products	Total
1950 Average 1955 Average 1960 Average 1965 Average 1970 Average 1975 Average 1980 Average 1980 Average 1980 Average 1995 Average 1995 Average 2000 Average 2001 Average 2002 Average 2003 Average 2004 Average 2005 Average 2007 Average 2007 Average 2007 Average 2008 Average 2007 Average 2008 Average 2007 Average 2008 Average 2009 Average 2010 Average 2010 Average 2011 Average		487 7822 1,015 1,238 1,324 4,105 5,263 3,201 5,894 7,230 9,071 9,328 9,140 9,665 10,088 10,126 10,138 10,031 9,783 9,013 9,213 8,935	7 12 35 36 147 155 142 200 278 193 295 344 267 333 325 329 365 304 213 225 228	(d) (d) 344 811 1444 1333 800 399 1086 1062 1488 1077 1099 1277 1090 1866 2177 1033 811 988 699	0 0 NA NA 26 69 67 115 102 161 145 145 145 145 145 145 145 14	0 0 4 21 52 216 187 188 146 215 206 328 332 247 253 182 153 153	(s) 13 27 28 67 184 140 381 342 265 427 454 498 518 496 603 475 413 302 223 134 105	329 417 637 946 1,528 1,223 510 504 187 352 295 249 327 426 530 350 372 349 331 366 328	27 24 62 119 157 144 130 550 705 708 938 1,085 1,085 1,085 1,1419 1,609 1,881 1,813 1,635 1,636	850 1,248 1,815 2,468 3,419 6,056 6,909 5,067 8,018 8,835 11,459 11,871 11,530 12,264 13,714 13,714 13,707 13,468 12,915 11,793 11,793	95 32 8 31 14 6 6 287 204 109 95 50 20 9 9 122 27 32 225 27 29 44 42	210 336 193 184 245 204 258 577 748 855 990 951 975 1,014 1,021 1,133 1,292 1,405 1,773 1,980 2,311 2,939	305 368 202 187 259 209 544 781 857 949 1,040 971 984 1,027 1,048 1,165 1,317 1,433 1,802 2,024 2,353 2,986
Petruary February March April May June July August September October November December Average	-	8,527 8,562 8,771 8,636 8,991 9,193 8,712 8,665 8,381 8,108 8,183 7,604 8,527	157 142 137 98 113 87 117 112 86 88 188 190 126	6 41 5 45 49 42 48 124 84 106 59 55	146 125 109 115 106 102 115 85 100 91 138 161	169 155 137 143 133 130 134 109 124 116 158 182 141	80 46 79 33 43 37 32 34 23 26 44 44	330 228 273 252 265 325 247 244 257 236 236 178 256	1,641 1,315 1,204 1,404 1,524 1,609 1,505 1,593 1,521 1,368 1,339 1,367 1,450	10,910 10,490 10,605 10,611 11,117 11,424 10,794 10,880 10,475 10,047 10,181 9,644 10,598	78 73 71 41 83 46 77 60 68 67 73 71	2,791 2,921 3,045 3,231 3,124 3,170 3,160 3,021 3,096 3,188 3,331 3,565 3,137	2,870 2,994 3,116 3,272 3,207 3,216 3,237 3,081 3,164 3,255 3,404 3,636 3,205
2013 January February March April May June July August September October November December Average		7,956 7,293 7,497 7,760 7,741 7,731 8,058 8,099 7,923 7,478 7,408 7,772 7,730	213 174 146 238 168 121 107 123 132 128 145 164	61 70 44 104 113 99 96 124 68 98 74 61 84	184 166 141 111 81 111 88 84 87 158 169 146	207 186 164 130 98 133 109 109 108 181 189 166 148	40 19 56 35 38 70 53 68 40 38 49 33 45	239 199 285 264 194 181 252 296 231 195 194 169 225	1,372 1,347 1,343 1,636 1,822 1,548 1,627 1,430 1,533 1,489 1,326 1,174 1,471	10,089 9,286 9,534 10,168 10,174 9,882 10,300 10,249 10,036 9,608 9,385 9,539 9,859	109 132 107 138 130 124 104 71 105 119 253 220 134	2,772 3,148 3,004 3,096 3,341 3,470 3,747 3,654 3,526 3,955 3,714 4,381 3,487	2,881 3,280 3,111 3,235 3,472 3,594 3,851 3,725 3,632 4,074 3,967 4,602 3,621
2014 January		7,584 7,200 7,264 7,547 7,165 7,054 7,623 7,471 7,508 7,130 R 7,274 E 7,387 RE 7,352	283 336 324 180 186 121 129 143 126 120 R 136 E 230 RE 192	42 94 91 144 104 109 85 63 133 90 R 80 E 110 E 95	187 221 122 78 66 91 63 76 74 97 R 90 E 112 RE 106	206 244 142 101 84 116 81 90 95 121 R 110 NA NA	42 11 36 57 47 51 60 73 77 64 R 41 E 89 RE 54	122 221 156 177 175 150 177 166 249 R 156 E 166 RE 173	985 1,046 1,227 1,377 1,619 1,215 1,317 1,302 1,047 1,131 R 1,170 NA NA	9,264 9,151 9,240 9,584 9,380 8,815 9,472 9,309 9,152 8,905 R 8,907 E 9,650 RE 9,243	245 240 246 268 288 396 401 389 376 R 502 E 383 RE 341	3,776 3,371 3,612 3,698 3,832 3,761 4,078 4,144 3,613 8,736 8,3,868 E 3,383 RE 3,742	4,021 3,611 3,858 3,966 4,121 4,156 4,479 4,533 3,962 4,112 R4,370 E3,766 RE 4,083

a Includes lease condensate.

includes finished aviation gasoline and special naphthas. Beginning in 1981, also includes motor gasoline blending components. Beginning in 2005, also includes naphtha-type jet fuel.

R=Revised. E=Estimate. NA=Not available. — =Not applicable. — =No data reported. (s)=Less than 500 barrels per day.

Notes: • 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/#petroleum (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Sources: • 1949–1975: Bureau of Mines, Mineral Industry Surveys, Petroleum Statement, Annual, annual reports. • 1976–1980: U.S. Energy Information Administration (EIA), Energy Data Reports, Petroleum Statement, Annual, annual reports. • 1981–2013: EIA, Petroleum Supply Annual, annual reports, and unpublished revisions. • 2014: EIA, Petroleum Supply Monthly, monthly reports; and, for the current month, Weekly Petroleum Status Report data system and Monthly Energy Review data system calculations. Monthly Energy Review data system calculations.

a includes lease condensate.

b Liquefied petroleum gases.
c "SPR" is the Strategic Petroleum Reserve, which began in October 1977.

Through 2003, includes crude oil imports by SPR only; beginning in 2004, includes crude oil imports by SPR, and crude oil imports into SPR by others.
d Beginning in 1965, includes kerosene-type jet fuel. (Through 1964, kerosene-type jet fuel is included with kerosene in "Other.") For 1956–2004, also includes naphtha-type jet fuel. (Through 1955, naphtha-type jet fuel is included in "Motor Gasoline." Beginning in 2005, naphtha-type jet fuel is included in "Other.")
e Includes propovlene.

[&]quot;Motor Gasoline." Beginning in 2005, naphtha-type jet fuel is included in "Other.")

e Includes propylene.

f Finished motor gasoline. Through 1955, also includes naphtha-type jet fuel.
Through 1963, also includes aviation gasoline and special naphthas. Through
1980, also includes motor gasoline blending components.

g Asphalt and road oil, aviation gasoline blending components, kerosene,
lubricants, pentanes plus, petrochemical feedstocks, petroleum coke, unfinished
oils, waxes, other hydrocarbons and oxygenates, and miscellaneous products.
Through 1964, also includes kerosene-type jet fuel. Beginning in 1964, also

Table 3.3c Petroleum Trade: Imports From OPEC Countries

			1					Saudi	Vene-		Total
	Algeriaa	Angola ^b	Ecuadorc	Iraq	Kuwait ^d	Libya ^e	Nigeria ^f	Arabia ^d	zuela	Other ^g	OPEC
1960 Average	(a)	(b)	(°)	22	182	(^e)	(f)	84	911	34	1.233
1965 Average	(a)	\b\	\c\	16	74	42	}f{	158	994	155	1,439
1970 Average	8	} b {	\c\	0	48	47	} f {	30	989	172	1,294
1975 Average	282	} b {	` 57	2	16	232	762	715	702	832	3,601
1980 Average	488	} b {	27	28	27	554	857	1,261	481	577	4.300
1985 Average	187	} b {	67	46	21	4	293	168	605	439	1,830
1990 Average	280	} b {	49	518	86	ŏ	800	1,339	1,025	199	4,296
1995 Average	234	}b∫	(C)	0.0	218	ŏ	627	1,344	1,480	98	4,002
2000 Average	225	ìοί	(°)	620	272	Ŏ	896	1,572	1,546	72	5,203
2001 Average	278	ÌÞ;	(°í	795	250	Ŏ	885	1,662	1,553	105	5,528
2002 Average	264	ζbj	(°)	459	228	Ō	621	1,552	1,398	83	4.605
2003 Average	382	(d)	(°)	481	220	Ŏ	867	1,774	1,376	61	5.162
2004 Average	452	ÌÞ;	(°í	656	250	20	1,140	1,558	1,554	70	5,701
2005 Average	478	ÌÞ;	(°í	531	243	56	1,166	1,537	1,529	47	5,587
2006 Average	657	(b)	(°í	553	185	87	1.114	1,463	1,419	38	5.517
2007 Average	670	`50 ́ 8	(°í	484	181	117	1,134	1,485	1,361	39	5,980
2008 Average	548	513	`221	627	210	103	988	1,529	1,189	26	5,954
2009 Average	493	460	185	450	182	79	809	1,004	1,063	50	4,776
2010 Average	510	393	212	415	197	70	1,023	1,096	988	3	4,906
2011 Average	358	346	206	459	191	15	818	1,195	951	16	4,555
2012 January	269	385	100	374	319	5	494	1,423	751	41	4,159
February	256	230	244	271	252	29	353	1,420	934	_	3,989
March	325	175	174	386	454	60	374	1,369	984	-	4,301
April	259	253	201	395	235	68	483	1,597	904	7	4,402
May	300	249	199	675	407	65	428	1,540	861	7	4,730
June	236	378	248	668	250	93	515	1,456	794	17	4,655
July	213	285	176	375	304	110	372	1,466	1,080	7	4,387
August	303	153	180	550	301	126	504	1,220	1,048	_	4,385
September	175	237	218	461	310	67	468	1,291	1,038	6	4,272
October	186	183	122	593	287	59	543	1,258	951	4	4,187
November	199	157	151	489	276	30	516	1,316	1,076	18	4,228
December	179	116	155	462	254	16	248	1,034	1,092	_	3,556
Average	242	233	180	476	305	61	441	1,365	960	9	4,271
2013 January	195	223	240	419	389	20	479	979	913	10	3,866
February	17	198	174	529	255	20	255	1,032	614	20	3,115
March	74	98	228	426	367	74	403	1,284	781	8	3,741
April	160	167	322	455	238	.76	405	1,109	866	_	3,799
May	168	328	178	321	361	125	395	1,440	739	10	4,064
June	.88	271	202	228	217	119	366	1,431	899	16	3,837
July	112	228	198	299	309	150	240	1,318	933	-	3,789
August	105	376	349	397	420	67	167	1,332	678	10	3,901
September	136	226	255	287	299	35	286	1,557	837	_	3,921
October	66	207	251	226	335	13	183	1,362	759	10	3,411
November	144	125	235	182	397	_	93	1,563	796	_	3,535
December	110	136	198	332	332	(s)	99	1,520	847	39	3,613
Average	115	216	236	341	328	59	281	1,329	806	10	3,720
2014 January	68 79	94 114	191 207	249 290	474 348	- -	89 59	1,462 1.464	687 807	1 31	3,314 3,398
	92	117	173	290	360	_	112	1,444	772	19	3,380
March April	69	117	170	321	342	_	187	1,607	853	19	3,668
	102	178	217	351	334	_	118	1,807	772	1	3,313
May	102		217 138	529	334 355	_	118	1,241	772 747	38	
June		166 159	214	529 496	355 375	_	61		747 901	38 40	3,251
July	118					10		1,232			3,598
August	137	129	305	543	263		48 57	894	867	76	3,272
September	185	202	305	350	245	_	57	1,004	823	42	3,215
October	101	147	242	243	304		59 55	826	701	6	2,628
November	88	209	120	421	137	57	55	1,014	800	10	2,911
11-Month Average	108	148	208	372	322	6	87	1,198	793	24	3,267
2013 11-Month Average 2012 11-Month Average	116 248	223 244	240 182	342 477	327 310	64 65	298 459	1,311 1,396	802 947	8 10	3,730 4,337

^a Algeria joined OPEC in 1969. For 1960-1968, Algeria is included in "Total

Notes: • See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary. Petroleum imports not classified as "OPEC" on this table are included on Table 3.3d. • The country of origin for petroleum products may not be the country of origin for the crude oil from which the products were produced. For example, refined products imported from West European refining areas may have been produced from Middle East crude oil. • Includes imports for the Strategic Petroleum Reserve, which began in October 1977. • Totals may not equal sum of components due to independent rounding. • U.S. geographic coverage is the 50 states and the District of Columbia.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#petroleum (Excel and CSV files) for all available annual data beginning in 1960 and monthly data beginning in 1973.

and CSV files) for all available annual data beginning in 1960 and monthly data beginning in 1973.

Sources: • 1960–1972: Bureau of Mines, *Minerals Yearbook*, annual reports.
• 1973–1975: Bureau of Mines, Mineral Industry Surveys, *Petroleum Statement*, *Annual*, annual reports.
• 1981–2013: EIA, *Petroleum Supply Annual*, annual reports.
• 1981–2013: EIA, *Petroleum Supply Annual*, annual reports.
• 2014: EIA, *Petroleum Supply Monthly*, monthly reports.

^a Algeria joined OPEC in 1969. For 1960–1968, Algeria is included in "Total Non-OPEC" on Table 3.3d.

^b Angola joined OPEC in January 2007. For 1960–2006, Angola is included in "Total Non-OPEC" on Table 3.3d.

^c Ecuador was a member of OPEC from 1973–1992, and rejoined OPEC in November 2007. For 1960–1972 and 1993–2007, Ecuador is included in "Total Non-OPEC" on Table 3.3d.

^d Through 1970, includes half the imports from the Neutral Zone between Kuwait and Saudi Arabia. Beginning in 1971, imports from the Neutral Zone are reported as originating in either Kuwait or Saudi Arabia depending on the country reported to U.S. Customs.

^e Libya joined OPEC in 1962. For 1960 and 1961, Libya is included in "Total Non-OPEC" on Table 3.3d.

^f Nigeria joined OPEC in 1971. For 1960–1970, Nigeria is included in "Total Non-OPEC" on Table 3.3d.

^g Includes these countries in the years indicated: Gabon (1975–1994), Indonesia (1962–2008), Iran (1960 forward), Qatar (1961 forward), and United Arab Emirates (1967 forward).

− =No data reported. (s)=Less than 500 barrels per day.

Table 3.3d Petroleum Trade: Imports From Non-OPEC Countries

	Brazil	Canada	Colombia	Mexico	Nether- lands	Norway	Russia ^a	United Kingdom	U.S. Virgin Islands	Other	Total Non-OPEC
1960 Average	1	120	42	16	NA	NA	0	(s)	NA	NA	581
1965 Average	Ó	323	51	48	1	0	Ö	(s)	0	606	1,029
1970 Average	2	766	46	42	39	ŏ	3	11	189	1,027	2,126
1975 Average	5	846	9	71	19	17	14	14	406	1,052	2,454
1980 Average	3	455	4	533	2	144	1	176	388	903	2,609
1985 Average	61	770	23	816	58	32	8	310	247	913	3,237
1990 Average	49	934	182	755	55	102	45	189	282	1.128	3,721
1995 Average	8	1,332	219	1,068	15	273	25	383	278	1,233	4,833
2000 Average	51	1,807	342	1,373	30	343	72	366	291	1,581	6,257
2001 Average	82	1,828	296	1,440	43	341	90	324	268	1,631	6,343
2002 Average	116	1,971	260	1.547	66	393	210	478	236	1,649	6,925
2003 Average	108	2,072	195	1,623	87	270	254	440	288	1,766	7,103
2004 Average	104	2,138	176	1,665	101	244	298	380	330	2,008	7,444
2005 Average	156	2,181	196	1,662	151	233	410	396	328	2,413	8,127
2006 Average	193	2,353	155	1,705	174	196	369	272	328	2,446	8,190
	200	2,455	155	1,532	128	142	414	277	346	1,839	7,489
2007 Average 2008 Average	258	2,493	200	1,302	168	102	465	236	320	1,416	6,961
2009 Average	309	2,493 2,479	200 276	1,302	140	102	563	236 245	320 277	1,307	6,915
	272	2,535	365	1,284	108	89	612	256	253	1,112	6,887
2010 Average	253		433	1,204	100		624	159	186	1,112	
2011 Average		2,729		·		113				,	6,881
2012 January	321	3,032	431	1,114	101	46	572	168	96	870	6,751
February	286	3,057	474	1,081	93	163	288	127	28	904	6,501
March	357	2,953	482	1,004	143	87	326	187	1	764	6,304
April	237	2,987	472	1,002	84	51	388	145	12	831	6,208
May	212	2,966	430	1,012	111	94	547	138	2	875	6,387
June	297	3,070	515	915	151	82	655	194	(s)	891	6,769
July	270	2,921	413	1,024	138	47	491	131	1	971	6,407
August	289	2,954	409	1,016	97	94	368	197	_	1,071	6,495
September	152	2,759	357	1,096	75	63	562	111	_	1,029	6,203
October	90	2,642	376	1,062	69	67	552	117	3	882	5,860
November	123	2,870	459	1,065	72	80	445	126	_	712	5,953
December	85	3,153	387	1,026	52	35	523	144	_	682	6,088
Average	226	2,946	433	1,035	99	75	477	149	12	874	6,327
2013 January	103	3,456	351	1,068	121	48	328	116	-	632	6,223
February	79	3,457	366	978	121	10	454	95	-	612	6,172
March	123	3,037	479	677	122	57	454	111	_	733	5,793
April	97	3,208	465	973	76	40	584	131	_	795	6,369
May	198	2,854	389	885	88	30	554	180	_	931	6,110
June	192	2,885	356	846	74	80	519	198	_	896	6,045
July	185	3,014	588	930	69	68	456	192	_	1,011	6,511
August	241	3,082	375	912	85	36	572	163	_	882	6,348
September	262	3,086	314	839	61	56	459	149	_	890	6,116
October	95	3,218	384	878	83	114	555	160	_	711	6,197
November	133	3,130	308	1,014	78	53	325	124	_	685	5,850
December	105	3,296	293	1,030	90	54	265	146	_	648	5,926
Average	151	3,142	389	919	89	54	460	147	-	786	6,138
2014 January	126	3,437	373	1,030	105	36	202	140	-	500	5,950
February	181	3,211	320	864	105	88	365	68	_	552	5,754
March	72	3,205	382	871	90	70	424	131	_	614	5,860
April	100	3,169	334	748	110	72	405	170	-	809	5,916
May	136	3,265	247	803	127	39	352	179	_	918	6,067
June	143	3,237	210	777	15	30	274	97	-	781	5,565
July	157	3,281	202	753	32	55	405	118	-	871	5,874
August	214	3,433	336	798	61	44	394	84	-	673	6,037
September	113	3,541	333	859	55	7	263	57	-	708	5,937
October	258	3,452	354	834	119	28	316	109	_	808	6,277
November	224	3,443	427	945	68	35	170	110	-	635	6,057
11-Month Average	157	3,335	320	844	81	46	325	115	-	717	5,938
2013 11-Month Average 2012 11-Month Average	156 240	3,127 2,927	398 438	908 1,035	89 103	54 79	479 473	148 149	- 13	799 891	6,158 6,349

^a Through 1992, may include imports from republics other than Russia in the

Finduced in Joseph Republics of the train Russia in the former U.S.S.R. See "Union of Soviet Socialist Republics (U.S.S.R.)" in Glossary. NA=Not available. — =No data reported. (s)=Less than 500 barrels per day. Notes: • See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary. Petroleum imports not classified as "OPEC" on Table 3.3c are included on this table. • The country of origin for petroleum products may not be the country of origin for the crude oil from which the products were produced. For example, refined products imported from West European refining areas may have been produced from Middle East crude oil. • Includes imports for the Strategic Petroleum Reserve, which began in October 1977. • Totals may not equal sum of components due to independent rounding. • U.S. geographic coverage is the 50

states and the District of Columbia.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#petroleum (Excel and CSV files) for all available annual data beginning in 1960 and monthly data

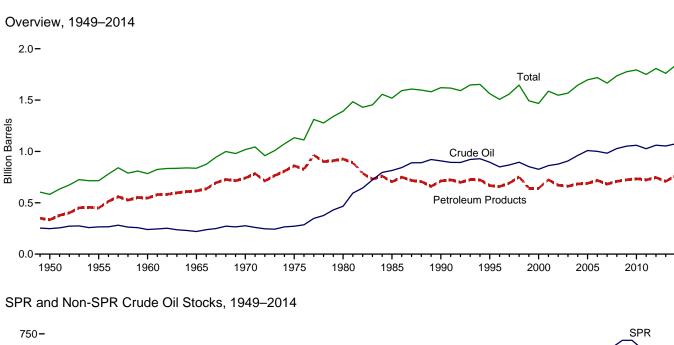
and CSV files) for all available annual data beginning in 1900 and monthly data beginning in 1973.

Sources: • 1960–1972: Bureau of Mines, *Minerals Yearbook*, annual reports. • 1973–1975: Bureau of Mines, Mineral Industry Surveys, *Petroleum Statement*, *Annual*, annual reports. • 1976–1980: U.S. Energy Information Administration (EIA), Energy Data Reports, Petroleum Statement, Annual, annual reports.

• 1981–2013: EIA, Petroleum Supply Annual, annual reports.

• 2014: EIA, Petroleum Supply Monthly, monthly reports.

Figure 3.4 Petroleum Stocks



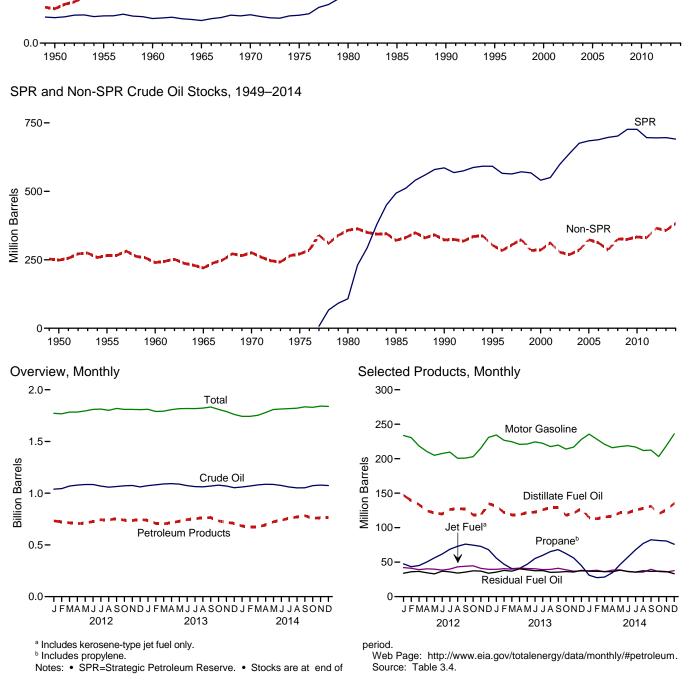


Table 3.4 Petroleum Stocks

(Million Barrels)

		Crude Oila				LPC	3 b				
	SPRC	Non-SPR ^{d,e}	Totale	Distillate Fuel Oil	Jet Fuel ^g	Propaneh	Total	Motor Gasoline	Residual Fuel Oil	Other ^j	Total
1950 Year	 108 493 586	248 266 240 220 276 271 358 321 323	248 266 240 220 276 271 466 814 908	72 111 138 155 195 209 205 144 132	(g) 3 7 19 28 30 42 40 52	NA NA NA NA NA 82 65 39	2 7 23 30 67 125 120 74 98	116 165 195 175 209 235 261 223 220	41 39 45 56 54 74 92 50 49	104 123 137 181 188 205 174 162	583 715 785 836 1,018 1,133 1,392 1,519 1,621
1995 Year 2000 Year 2001 Year 2002 Year 2003 Year 2005 Year 2006 Year 2006 Year 2008 Year 2008 Year 2009 Year 2010 Year 2011 Year 2011 Year	592 541 550 599 638 676 685 689 697 702 727 727 696	303 286 312 278 269 286 324 312 286 325 325 333 331	895 826 862 877 907 961 1,008 1,001 983 1,028 1,052 1,060 1,027	130 118 145 134 137 126 136 144 134 146 166 164	40 45 42 39 39 40 42 39 38 43 43 41	43 41 66 53 55 57 62 55 50 49	93 83 121 106 94 104 109 113 96 113 102 108 112	202 196 210 209 207 218 208 212 218 214 223 219 223	37 36 41 31 38 42 37 42 39 36 37 41	165 164 166 152 147 153 157 169 156 162 153 158 164	1,563 1,468 1,586 1,548 1,568 1,645 1,698 1,720 1,665 1,737 1,776 1,794 1,750
2012 January February March April May June July August September October November December	696 696 696 696 696 696 696 695 695 695	343 348 373 383 388 388 373 362 370 376 379 365	1,039 1,044 1,069 1,079 1,084 1,069 1,058 1,065 1,071 1,074 1,061	147 139 134 125 121 120 126 127 127 119 118	42 41 39 40 40 43 44 45 41 40	48 43 45 50 56 62 69 73 76 75 73 68	101 96 103 116 133 147 160 170 175 168 158	234 231 219 211 205 208 210 201 201 203 215 231	34 36 37 35 33 37 36 34 36 37 37	175 180 184 179 180 177 173 166 172 167 167	1,773 1,767 1,783 1,784 1,796 1,810 1,813 1,801 1,819 1,810 1,810 1,808
2013 January	696 696 696 696 696 696 696 696 696 696	377 385 393 396 392 377 368 366 373 382 374 357	1,073 1,081 1,089 1,092 1,088 1,073 1,064 1,062 1,069 1,078 1,070 1,053	131 122 119 119 122 122 126 129 129 118 121	40 40 41 41 41 40 39 39 41 39 37 37	56 47 41 41 47 55 60 65 68 63 56 45	121 108 103 111 127 143 154 168 172 159 139	234 227 225 221 221 224 222 218 220 214 217 228	36 38 37 40 39 38 38 35 36 36 36	176 174 180 183 178 175 171 166 166 170	1,811 1,790 1,793 1,808 1,817 1,819 1,818 1,823 1,833 1,830 1,789
2014 January	696 696 696 693 691 691 691 691 691 691	364 373 384 393 394 384 369 361 361 382 R 388 E 383	1,060 1,069 1,080 1,086 1,085 1,075 1,060 1,052 1,073 R 1,078 E 1,074	115 113 115 117 122 122 126 128 131 120 R 126 E 135	38 38 36 38 39 36 35 36 40 36 36 8	31 28 28 35 47 57 68 77 82 81 R 81 E 76	88 81 85 102 125 149 172 187 192 185 R 172 RF 153	236 228 221 216 218 219 217 212 212 203 R 219 E 236	37 37 36 36 38 37 36 38 37 37 R 36 E 33	170 177 180 184 182 176 172 170 171 175 R 174 RE 169	1,743 1,743 1,753 1,780 1,809 1,814 1,818 1,822 1,835 1,830 R 1,842 E 1,839

lubricants, pentanes plus, petrochemical feedstocks, petroleum coke, unfinished oils, waxes, miscellaneous products, oxygenates, renewable fuels, and other hydrocarbons. Through 1964, also includes kerosene-type jet fuel. Beginning in 1964, also includes finished aviation gasoline and special naphthas. Beginning in 2005, also includes naphtha-type jet fuel.

R=Revised. E=Estimate. F=Forecast. NA=Not available. ——=Not applicable. Notes: • 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/#petroleum (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

and CSV files) for all available affinual data beginning in 1945 and informity data beginning in 1973.
Sources: • 1949–1975: Bureau of Mines, Mineral Industry Surveys, Petroleum Statement, Annual, annual reports. • 1976–1980: U.S. Energy Information Administration (EIA), Energy Data Reports, Petroleum Statement, Annual, annual reports. • 1981–2013: EIA, Petroleum Supply Annual, annual reports. • 2014: EIA, Petroleum Supply Monthly, monthly reports; and, for the current month, Weekly Petroleum Status Report data system, Short-Term Integrated Forecasting System, and Monthly Energy Review data system calculations.

b Liquefied petroleum gases.

c "SPR" is the Strategic Petroleum Reserve, which began in October 1977.

Crude oil stocks in the SPR include non-U.S. stocks held under foreign or commercial storage agreements.

d All crude oil stocks other than the

d All crude oil stocks other than those in "SPR."

Beginning in 1981, includes stocks of Alaskan crude oil in transit.
Excludes stocks in the Northeast Home Heating Oil Reserve. Beginning in 2009, includes renewable diesel fuel (including biodiesel) blended into distillate fuel

oil.

⁹ Beginning in 1965, includes kerosene-type jet fuel. (Through 1964, kerosene-type jet fuel is included with kerosene in "Other.") For 1952–2004, also includes naphtha-type jet fuel. (Through 1951, naphtha-type jet fuel is included in the products from which it was blended—gasoline, kerosene, and distillate fuel oil. Beginning in 2005, naphtha-type jet fuel is included in "Other.").

[§] Includes propylene.

i Includes finished motor gasoline and motor gasoline blending components; excludes oxygenates. Through 1963, also includes aviation gasoline and special naphthas

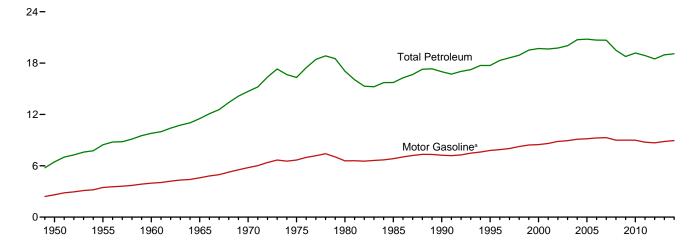
naphthas.

J Asphalt and road oil, aviation gasoline blending components, kerosene,

Figure 3.5 Petroleum Products Supplied by Type

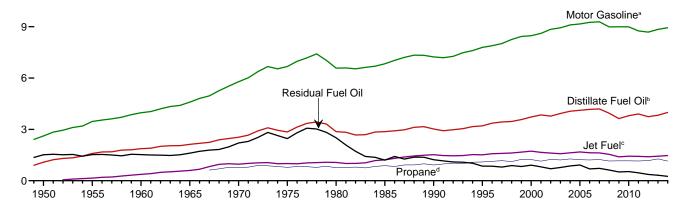
(Million Barrels per Day)

Total Petroleum and Motor Gasoline, 1949-2014



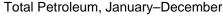
Selected Products, 1949-2014

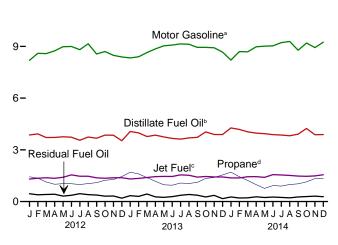
12-



24-

Selected Products, Monthly





Note: SPR=Strategic Petroleum Reserve.

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

Source: Table 3.5.

12-

^a Beginning in 1993, includes fuel ethanol blended into motor gasoline.

^b Beginning in 2009, includes renewable diesel fuel (including biodiesel) blended into distillate fuel oil.

^c Beginning in 2005, includes kerosene-type jet fuel only.

d Includes propylene.

Table 3.5 Petroleum Products Supplied by Type

-	Asphalt					LP	G ^a			Petro-			
	and Road Oil	Aviation Gasoline	Distillate Fuel Oil ^b	Jet Fuel ^c	Kero- sene	Propaned	Total	Lubri- cants	Motor Gasoline ^e	leum Coke	Residual Fuel Oil	Other ^f	Total
1950 Average	180	108	1,082	(°)	323	NA	234	106	2,616	41	1,517	250	6,458
1955 Average		192	1,592	`1 54	320	NA	404	116	3,463	67	1,526	366	8,455
1960 Average	302	161	1,872	371	271	NA	621	117	3,969	149	1,529	435	9,797
1965 Average	368	120	2,126	602	267	NA	841	129	4,593	202	1,608	657	11,512
1970 Average	447	55	2,540	967	263	776	1,224	136	5,785	212	2,204	866	14,697
1975 Average	419	39	2,851	1,001	159	783	1,333	137	6,675	247	2,462	1,001	16,322
1980 Average	396	35	2,866	1,068	158	754	1,469	159	6,579	237	2,508	1,581	17,056
1985 Average	425	27	2,868	1,218	114	883	1,599	145	6,831	264	1,202	1,032	15,726
1990 Average	483	24	3,021	1,522	43	917	1,556	164	7,235	339	1,229	1,373	16,988
1995 Average		21 20	3,207 3,722	1,514 1,725	54 67	1,096 1,235	1,899 2,231	156 166	7,789 8.472	365 406	852 909	1,381 1,458	17,725 19,701
2000 Average 2001 Average	519	19	3,847	1,655	72	1,142	2,231	153	8,610	437	811	1,481	19,649
2002 Average	512	18	3,776	1,614	43	1,248	2,163	151	8,848	463	700	1,474	19,761
2003 Average	503	16	3,927	1,578	55	1,215	2,074	140	8,935	455	772	1,579	20,034
2004 Average	537	17	4.058	1.630	64	1,276	2,132	141	9.105	524	865	1.657	20,731
2005 Average	546	19	4,118	1,679	70	1,229	2,030	141	9,159	515	920	1,605	20.802
2006 Average	521	18	4,169	1,633	54	1,215	2,052	137	9,253	522	689	1,640	20,687
2007 Average	494	17	4,196	1,622	32	1,235	2,085	142	9,286	490	723	1,593	20,680
2008 Average	417	15	3,945	1,539	14	1,154	1,954	131	8,989	464	622	1,408	19,498
2009 Average	360	14	3,631	1,393	18	1,160	2,051	118	8,997	427	511	1,251	18,771
2010 Average	362	15	3,800	1,432	20	1,160	2,173	131	8,993	376	535	1,343	19,180
2011 Average	355	15	3,899	1,425	12	1,153	2,204	125	8,753	361	461	1,272	18,882
2012 January	201	12	3,861	1,308	6	1,436	2,497	121	8,190	403	452	1,253	18,304
February	220	11	3,923	1,351	27	1,358	2,439	139	8,598	304	393	1,238	18,643
March	234	14	3,715	1,381	7	1,134	2,232	110	8,582	317	412	1,160	18,164
April		14	3,719	1,350	2	1,005	2,098	125	8,741	345	423	1,067	18,211
May		17	3,756	1,409	8	1,037	2,086	122	8,979	385	317	1,128	18,589
June		13	3,732	1,546	2	1,033	2,037	108	8,996	385	364	1,219	18,857
July	464 497	20 13	3,557 3,743	1,468 1,470	(s) (s)	990 1,043	2,058 2,136	107 110	8,810 9,154	345 411	458 401	1,228 1,221	18,515 19,156
August September	445	15	3,674	1,470	(5)	1,043	2,130	106	8,561	374	376	1,010	18,092
October	374	14	3.852	1,353	3	1,239	2,143	112	8.701	309	311	1,331	18.705
November	282	10	3.848	1,381	3	1,277	2,390	121	8.483	378	323	1,309	18.528
December	201	9	3,529	1,381	2	1,452	2,548	92	8,389	366	196	1,408	18,120
Average	340	14	3,741	1,398	5	1,175	2,251	114	8,682	360	369	1,215	18,490
2013 January	224	11	4,062	1,311	11	1,701	2,757	127	8,331	404	341	1,171	18,749
February	215	8	3,984	1,344	2	1,605	2,775	127	8,395	281	297	1,214	18,643
March	236	12	3,769	1,393	15	1,390	2,493	127	8,641	292	440	1,114	18,531
April	290	12	3,854	1,444	5	1,174	2,283	113	8,855	267	272	1,189	18,584
May	308	15	3,749	1,459	1	973	2,081	128	9,033	397	244	1,363	18,779
June	406	15	3,663	1,454	1	949	2,048	141	9,078	403	287	1,311	18,806
July	453	16	3,621	1,546	1	1,074	2,279	122	9,146	374	363	1,336	19,257
August		14	3,693	1,524	1	1,052	2,181	120	9,124	401	409	1,192	19,125
September	461 377	11 11	3,725 4,039	1,417 1,455	4 1	1,112 1.345	2,276 2,607	119 116	8,946 8.944	402 315	370 267	1,521 1,178	19,252 19,312
October November	262	14	3,893	1,433	(s)	1,401	2,689	100	8,923	393	361	1,176	19,312
December	180	7	3,887	1,428	19	1,543	2,822	115	8,670	308	170	1,377	18,983
Average	323	12	3,827	1,434	5	1,275	2,440	121	8,843	354	319	1,282	18,961
2014 January	177	10	4,272	1,371	18	1,703	2,916	108	8,206	432	269	1,143	18.921
February	205	7	4,182	1,373	5	1,442	2,600	117	8,699	299	207	1,301	18,994
March		12	4,046	1,440		1,223	2,378	137	8,684	227	216	1,168	18,526
April		11	3,972	1,446	(s) 2	983	2,149	115	8,979	327	276	1,225	18,783
May	350	14	3,937	1,404	1	764	1,909	132	9,016	373	235	1,145	18,516
June	402	11	3,880	1,560	(s)	927	2,049	101	9,034	347	261	1,189	18,833
July	463	17	3,860	1,543	12	898	2,066	135	9,220	395	239	1,212	19,164
August	458	14	3,817	1,516	3	993	2,310	132	9,287	378	213	1,147	19,276
September	444	11	3,909	1,477	18	1,027	2,260	133	8,775	407	267	1,337	19,039
October	393	11 R 4 4	4,238	1,464	16	1,143	2,390	125 R 420	9,196	359	292	1,148	19,630
November	^R 261 ^F 190	R 11 F 9	R 3,879	R 1,488 E 1,559	^R 7 ^{RF} 16	R 1,328	R 2,608	R 139 RF 114	^R 8,930 ^E 9,245	R 411 F 362	R 313 E 280	R 1,159 RE 1,773	R 19,206
December		RE 12	E 3,887 RE 3,989	RE 1,471	RE 8	E 1,343 E 1,146	RF 2,693 RE 2,360	RE 124	FE 8,941	RE 360	RE 256	RE 1,773	E 20,128 RE 19,087
Average	··- 321	12	3,909	1,4/1	8	- 1,146	2,300	124	- 6,941	300	256	1,245	19,007

barrels per day and greater than -500 barrels per day.

Notes: • Petroleum products supplied is an approximation of petroleum consumption and is synonymous with the term 'petroleum consumption' in Tables 3.7a-3.8c. See Note 1, "Petroleum Products Supplied and Petroleum Consumption," 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/#petroleum (Excel and CSV files) for all available annual data beginning in 1949 and monthly data

and CSV files) for all available annual data beginning in 1973 beginning in 1973.

Sources: • 1949–1975: Bureau of Mines, Mineral Industry Surveys, Petroleum Statement, Annual, annual reports. • 1976–1980: U.S. Energy Information Administration (EIA), Energy Data Reports, Petroleum Statement, Annual, annual reports. • 1981–2013: EIA, Petroleum Supply Annual, annual reports, and unpublished revisions. • 2014: EIA, Petroleum Supply Monthly, monthly reports; and, for the current month, Weekly Petroleum Status Report data system, Short-Term Integrated Forecasting System, and Monthly Energy Review data system calculations.

^a Liquefied petroleum gases.

^b Beginning in 2009, includes renewable diesel fuel (including biodiesel) blended into distillate fuel oil.

^c Beginning in 1957, includes kerosene-type jet fuel. For 1952–2004, also includes naphtha-type jet fuel. (Through 1951, naphtha-type jet fuel is included in the products from which it was blended—gasoline, kerosene, and distillate fuel oil. Beginning in 2005, naphtha-type jet fuel is included in "Other.").

^d Includes propylene.

a Includes propylene.

Finished motor gasoline. Through 1963, also includes special naphthas. Beginning in 1993, also includes fuel ethanol blended into motor gasoline.

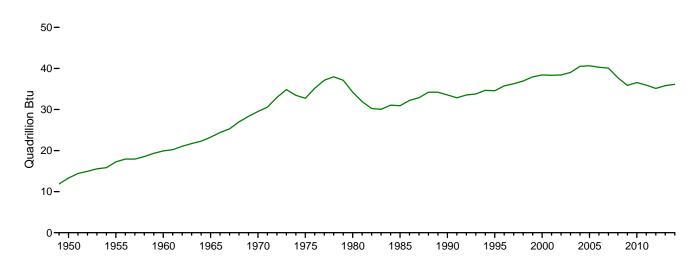
Pentanes plus, petrochemical feedstocks, still gas (refinery gas), waxes, and miscellaneous products. Beginning in 1964, also includes special naphthas.

Beginning in 1981, also includes negative barrels per day of distillate and residual fuel oil reclassified as unfinished oils, and other products (from both primary and secondary supply) reclassified as gasoline blending components. secondary supply) reclassified as gasoline blending components. Beginning in 1983, also includes crude oil burned as fuel. Beginning in 2005, also includes naphtha-type jet fuel.

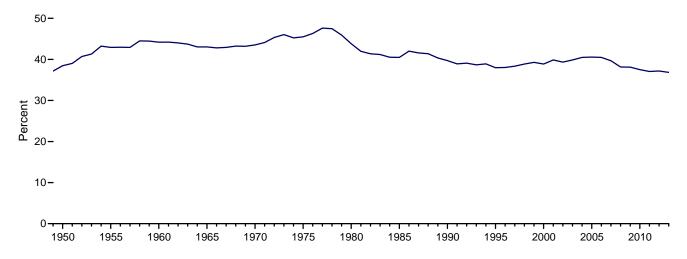
R=Revised. E=Estimate. F=Forecast. NA=Not available. (s)=Less than 500

Figure 3.6 Heat Content of Petroleum Products Supplied by Type

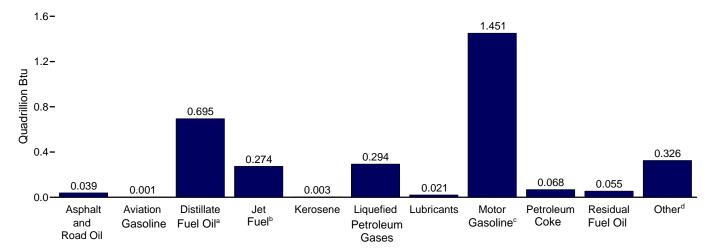
Total, 1949-2014



Petroleum Products Supplied as Share of Total Energy Consumption, 1949–2013



By Product, December 2014



^a Includes renewable diesel fuel (including biodiesel) blended into distillate fuel oil.

^b Includes kerosene-type jet fuel only.

[°] Includes fuel ethanol blended into motor gasoline.

^d All petroleum products not separately displayed. Web Page: http://www.eia.gov/totalenergy/data/monthly/#petroleum. Sources: Tables 1.1 and 3.6.

Table 3.6 Heat Content of Petroleum Products Supplied by Type

	ion blu,	,											
	Asphalt and	Aviation	Distillate	Jet	Kero-	LP	3 a	Lubri-	Motor	Petro- leum	Residual		
	Road Oil	Gasoline	Fuel Oilb	Fuelc	sene	Propaned	Total	cants	Gasolinee	Coke	Fuel Oil	Other ^f	Total
1950 Total	435	199	2,300	(°)	668	NA	343	236	5,015	90	3,482	546	13,315
1955 Total	615	354	3,385	` 301	662	NA	592	258	6,640	147	3,502	798	17,255
1960 Total	734	298	3,992	739	563	NA	912	259	7,631	328	3,517	947	19,919
1965 Total	890	222	4,519	1,215	553	NA	1,232	286	8,806	444	3,691	1,390	23,246
1970 Total	1,082	100	5,401	1,973	544	1,086	1,689	301	11,091	465	5,057	1,817	29,521
1975 Total	1,014	71	6,061	2,047	329	1,097	1,807	304	12,798	542	5,649	2,109	32,732
1980 Total	962	64	6,110	2,190	329	1,059	1,976	354	12,648	522	5,772	3,278	34,205
1985 Total	1,029	50	6,098	2,497	236	1,236	2,103	322	13,098	582	2,759	2,152	30,925
1990 Total	1,170 1,178	45 40	6,422	3,129	88 112	1,284 1,534	2,059 2,512	362	13,872	745 802	2,820 1,955	2,839 2,837	33,552
1995 Total 2000 Total	1,176	36	6,812 7,927	3,132 3,580	140	1,734	2,945	346 369	14,834 16,167	895	2,091	2,979	34,558 38,406
2001 Total	1,257	35	8.170	3,426	150	1,734	2,543	338	16,386	961	1.861	3.056	38,337
2002 Total	1,240	34	8,020	3,340	90	1,747	2,852	334	16,829	1,018	1,605	3,040	38,401
2003 Total	1,220	30	8,341	3,265	113	1,701	2,748	309	16,968	1,000	1,772	3,264	39,030
2004 Total	1,304	31	8,642	3,383	133	1,791	2,824	313	17,333	1,148	1,990	3,428	40,528
2005 Total	1,323	35	8,745	3,475	144	1,721	2,682	312	17,378	1,125	2,111	3,318	40,647
2006 Total	1,261	33	8,831	3,379	111	1,701	2,700	303	17,531	1,141	1,581	3,416	40,289
2007 Total	1,197	32	8,860	3,358	67	1,729	2,733	313	17,472	1,072	1,659	3,313	40,075
2008 Total	1,012	28	8,346	3,193	30	1,620	2,574	291	16,865	1,017	1,432	2,941	37,728
2009 Total	873	27	7,661	2,883	36	1,624	2,664	262	16,750	937	1,173	2,611	35,877
2010 Total	878	27	8,014	2,963	41	1,624	2,821	291	16,668	831	1,228	2,800	36,561
2011 Total	859	27	8,217	2,950	25	1,614	2,839	276	16,191	801	1,058	2,676	35,920
2012 January	41	2	691	230	1	171	274	23	1,286	76	88	221	2,933
February	42	2	657	222	4	151	252	24	1,262	54	72	208	2,799
March	48	2	665	243	. 1	135	245	21	1,347	60	80	208	2,920
April	65	2	644	230	(s)	116	222	23	1,328	63	80	184	2,840
May	79 91	3 2	672 646	248	(a)	123 119	228 214	23 20	1,409	73 70	62 69	200 212	2,997
June	95	3	636	263 258	(s) (s)	118	214	20	1,366 1.383	65	89	212	2,953 2.992
July August	102	2	670	258	(s)	124	233	21	1,363	77	78	219	3,095
September	89	2	636	234	(5)	126	227	19	1,300	68	71	176	2,823
October	77	2	689	238	1	147	258	21	1,366	58	61	236	3.006
November	56	2	666	235	i	147	255	22	1,288	69	61	226	2,880
December	41	1	631	243	(s)	173	282	17	1,317	69	38	252	2,891
Total	827	25	7,903	2,901	11	1,649	2,912	254	16,089	802	849	2,558	35,130
2013 January	46	2	727	230	2	202	306	24	1,307	76	66	208	2,995
February	40	1	644	213	(s)	172	279	22	1,190	48	52	196	2,686
March	48	2	674	245	3	165	277	24	1,356	55	86	197	2,966
April	58	2	667	246	1	135	244	21	1,345	49	51	204	2,887
May	63 81	2 2	670 634	256 247	(s)	116 109	228 217	24 26	1,418 1,379	75 74	47 54	241 223	3,026 2,936
June July	93	3	647	272	(s) (s)	128	251	23	1,379	74	71	241	3,106
August	95	2	660	268	(s)	125	239	23	1,432	76	80	212	3,086
September	92	2	644	241	1	128	240	22	1,359	74	70	258	3,001
October	78	2	722	256	(s)	160	287	22	1,403	60	52	211	3,093
November	52	2	674	243	(s)	161	287	18	1,355	72	68	243	3,014
December	37	1	695	251	` 3	183	312	22	1,360	58	33	244	3,016
Total	783	22	8,058	2,969	11	1,785	3,167	268	16,339	786	731	2,677	35,811
2014 January	36	2	764	241	3	203	325	20	1,288	81	52	206	3,018
February	38	1	675	218	. 1	155	260	20	1,233	51	37	210	2,743
March	45	2	723	253	(s)	145	261	26	1,363	43	42	210	2,968
April	56 72	2 2	687	246	(s)	113	228	21	1,364	60	52	214	2,929
May	72 80	2	704 671	247 265	(s)	91 107	207 215	25 18	1,415 1,372	70 63	46 49	207 204	2,994 2,940
June	80 95	3	690	265 271	(s) 2	107	215	25	1,372	75	49 47	204 215	2,940 3,093
July August	95 94	2	683	266	(s)	117	223 250	25 25	1,447	75 71	47	205	3,093
September	88	2	676	251	(5)	118	238	24	1,333	74	50	230	2,970
October	81	2	758	257	3	136	263	24	1,443	68	57	205	3,159
November	R 52	R 2	^R 671	R 253	R 1	153	R 278	R 25	R 1,356	R 75	R 59	R 201	R 2,974
December	F 39	F1	E 695	E 274	RF 3	E 160	F 294	F 21	E 1,451	F 68	E 55	E 326	E 3,228
Total	RE 777	E 21	RE 8,399	RE 3,043	RE 17	E 1,605	RE 3,041	RE 275	RE 16,520	RE 800	RE 587	RE 2,632	RE 36,114

a Liquefied petroleum gases.

Beginning in 1983, also includes crude oil burned as fuel. Beginning in 2005, also

includes naphtha-type jet fuel.

R=Revised. E=Estimate. F=Forecast. NA=Not available. (s)=Less than 0.5 trillion Btu and greater than -0.5 trillion Btu.

Notes:

Petroleum products supplied is an approximation of petroleum consumption and is synonymous with the term "petroleum consumption" in Tables 3.7a–3.8c. See Note 1, "Petroleum Products Supplied and Petroleum Consumption," 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/#petroleum (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973. Sources: See end of section.

b Beginning in 2009, includes renewable diesel fuel (including biodiesel)

blended into distillate fuel oil.

Beginning in 1957, includes kerosene-type jet fuel. For 1952–2004, also includes naphtha-type jet fuel. (Through 1951, naphtha-type jet fuel is included in the products from which it was blended—gasoline, kerosene, and distillate fuel oil. Beginning in 2005, naphtha-type jet fuel is included in "Other.")

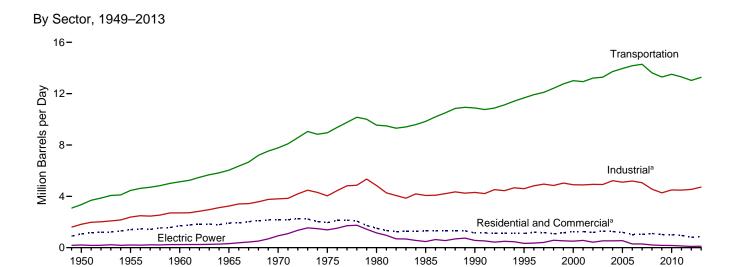
Beginning in 2005, hapntha-type jet ruei is included in "Other.").

Includes propylene.

Finished motor gasoline. Through 1963, also includes special naphthas. Beginning in 1993, also includes fuel ethanol blended into motor gasoline.

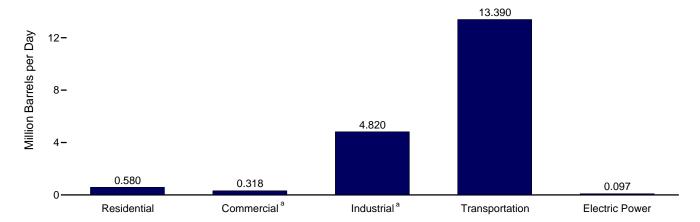
Pentanes plus, petrochemical feedstocks, still gas (refinery gas), waxes, and miscellaneous products. Beginning in 1964, also includes special naphthas. Beginning in 1981, also includes negative barrels per day of distillate and residual fuel oil reclassified as unfinished oils, and other products (from both primary and secondary supply) reclassified as gasoline blending components.

Figure 3.7 Petroleum Consumption by Sector

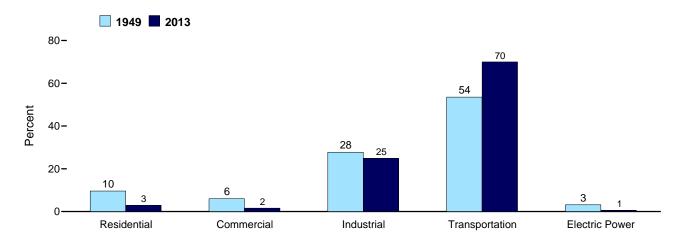


By Sector, November 2014





Sector Shares 1949 and 2013



^a Includes combined-heat-and-power plants and a small number of electricity-only plants.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#petroleum. Sources: Tables 3.7a-3.7c.

Table 3.7a Petroleum Consumption: Residential and Commercial Sectors

		Resident	ial Sector		Commercial Sector ^a							
	Distillate Fuel Oil	Kero- sene	Liquefied Petroleum Gases	Total	Distillate Fuel Oil	Kero- sene	Liquefied Petroleum Gases	Motor Gasoline ^b	Petro- leum Coke	Residual Fuel Oil	Total	
1950 Average	390	168	104	662	123	23	28	52	NA	185	411	
1955 Average	562	179	144	885	177	23	38	69	NA NA	209	519	
1960 Average	736	179	217	1,123	232	23	58	35	NA NA	243	590	
	805	161	275		252	23 26	74	40	NA NA	243 281	672	
1965 Average	883	144	392	1,242	276	30	102	40 45	NA NA		764	
1970 Average				1,419						311		
1975 Average	850	78	365	1,293	276	24	92	46	NA	214	653	
1980 Average	617	51	222	890	243	20	63	56	NA	245	626	
1985 Average	514	77	224	815	297	16	68	50	NA	99	530	
1990 Average	460	31	252	742	252	6	73	58	0	100	489	
1995 Average	426	36	282	743	225	11	78	10	(s)	62	385	
2000 Average	424	46	395	865	230	14	107	23	(s)	40	415	
2001 Average	427	46	375	849	239	15	102	20	(s)	30	406	
2002 Average	404	29	384	817	209	8	101	24	(s)	35	376	
2003 Average	438	34	389	861	233	9	112	32	(s)	48	434	
2004 Average	433	41	364	839	221	10	108	23	(s)	53	416	
2005 Average	402	40	366	809	210	10	94	24	(s)	50	389	
2006 Average	335	32	318	685	189	7	88	26	(s)	33	343	
2007 Average	342	21	345	708	181	4	87	32	(s)	33	337	
	354	10	394	758	181	2	113	24		31	351	
2008 Average						2		28	(s)			
2009 Average	276	13	391	680	187		99		(s)	31	348	
2010 Average	266	14	379	659	185	2	100	28	(s)	27	343	
2011 Average	248	9	362	619	186	2	105	24	(s)	23	339	
2012 January	380	4	317	701	280	1	109	R 20	(s)	23	R 431	
February	319	19	310	648	235	3	106	R 21	(s)	19	R 384	
March	259	5	284	548	191	1	97	R 21	(s)	15	R 325	
April	190	1	267	458	140	(s)	91	R 21	(s)	11	R 263	
May	188	6	265	459	138	`1	91	R 22	Ò	11	R 263	
June	195	1	259	455	143	(s)	89	R 22	0	12	R 266	
July	182	(s)	262	443	134	(s)	90	R 21	(s)	11	R 256	
August	228	(s)	271	500	168	(s)	93	R 22	(s)	14	R 297	
September	184	3	273	460	135	(s)	94	R 21	(s)	11	R 261	
October	163	2	298	463	120	(s)	102	R 21	(s)	10	R 253	
	215	2	304	521	158		104	R 20		13	R 296	
November						(s)		R 20	(s)		R 290	
December	238	2	324	564	176	(s)	111		(s)	14	R 321	
Average	228	4	286	518	168	1	98	R 21	(s)	14	R 301	
2013 January	433	8	350	791	303	. 1	120	R 20	(s)	20	R 464	
February	444	2	353	798	311	(s)	121	R 21	(s)	20	R 473	
March	348	11	317	676	244	2	109	R 21	(s)	16	R 391	
April	270	3	290	564	189	. 1	99	R 22	(s)	12	R 323	
May	171	1	264	436	119	(s)	91	R 22	0	8	R 240	
June	125	1	260	386	87	(s)	89	R 22	0	6	R 204	
July	122	1	290	412	85	(s)	99	R 22	(s)	6	R 212	
August	157	1	277	435	110	(s)	95	R 22	(s)	7	R 235	
September	178	3	289	470	124	(s)	99	R 22	(s)	8	R 254	
October	127	1	331	459	89	(s)	114	R 22	(s)	6	R 230	
November	200	(s)	342	542	140	(s)	117	R 22	(s)	9	R 288	
December	239	14	359	612	167	` 2	123	R 21	(s)	11	R 325	
Average	233	4	310	547	163	1	106	R 22	(s)	11	R 302	
0044 (074	40	070	055	400	0	407	P 00	(-)	40	P.054	
2014 January	271	13	370	655	190	2	127	R 20	(s)	12	R 351	
February	333	4	330	667	233	. 1	113	R 21	(s)	15	R 383	
March	269	(s)	302	572	188	(s)	104	R 21	(s)	12	R 326	
April	135	1	273	409	94	(s)	94	R 22	(s)	6	R 217	
May	176	1	243	420	123	(s)	83	R 22	(s)	8	R 237	
June	157	(s)	260	417	110	(s)	89	R 22	Ô	7	R 228	
July	127	8	263	398	89	` 1	90	R 23	(s)	6	R 208	
August	133	2	294	428	93	(s)	101	R 23	(s)	6	R 223	
September	192	13	287	492	134	2	98	R 22	(s)	9	R 265	
October	R 201	11	304	R 516	R 140	2	104	R 23	(s)	R 9	R 278	
November	244	5	331	580	171	1	114	22	(s)	11	318	
11-Month Average	203	5	296	504	142	i	101	22	(s)	9	275	
2013 11-Month Average	233	3	305	541	163	(s)	105	22	(s)	11	300	
2012 11-Month Average	227	4	283	514	167	(3)	97	21	(s)	14	299	

 ^a Commercial sector fuel use, including that at commercial combined-heat-and-power (CHP) and commercial electricity-only plants.
 ^b Finished motor gasoline. Through 1963, also includes special naphthas.
 Beginning in 1993, also includes fuel ethanol blended into motor gasoline.

beginning in 1973. Sources: See end of section.

R=Revised. NA=Not available. (s)=Less than 500 barrels per day and greater than -500 barrels per day.

Notes: • Data are estimates. • For total petroleum consumption by all sectors, see petroleum products supplied data in Table 3.5. Petroleum products supplied is an approximation of petroleum consumption and is synonymous with the term

[&]quot;petroleum consumption" in Tables 3.7a–3.8c. See Note 1, "Petroleum Products Supplied and Petroleum Consumption," 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/#petroleum (Excel and CSV files) for all available annual data beginning in 1949 and monthly data

Table 3.7b Petroleum Consumption: Industrial Sector

	Industrial Sector ^a												
	Asphalt and Road Oil	Distillate Fuel Oil	Kerosene	Liquefied Petroleum Gases	Lubricants	Motor Gasoline ^b	Petroleum Coke	Residual Fuel Oil	Other ^c	Total			
1950 Average	180	328	132	100	43	131	41	617	250	1,822			
1955 Average	254	466	116	212	47	173	67	686	366	2,387			
1960 Average	302	476	78	333	48	198	149	689	435	2,708			
1965 Average	368	541	80	470	62	179	202	689	657	3,247			
1970 Average	447	577	89	699	70	150	203	708	866	3.808			
1975 Average	419	630	58	844	68	116	246	658	1,001	4,038			
1980 Average	396	621	87	1.172	82	82	234	586	1,581	4.842			
1985 Average	425	526	21	1,285	75	114	261	326	1,032	4,065			
1990 Average	483	541	-6	1,215	84	97	325	179	1,373	4,304			
1995 Average	486	532	7	1,527	80	105	328	147	1.381	4.594			
2000 Average	525	563	8	1,720	86	79	361	105	1,458	4,903			
2001 Average	519	611	11	1,557	79	155	390	89	1,481	4,892			
2002 Average	512	566	7	1,668	78	163	383	83	1,474	4,934			
2003 Average	503	551	12	1,560	72	171	375	96	1,579	4,918			
2004 Average	537	570	14	1,646	73	195	423	108	1.657	5,222			
2004 Average	546	594	19	1,549	73 72	187	404	123	1,605	5,100			
2005 Average	521	594 594	14	1,627	71	198	404 425	104	1,640	5,100			
2006 Average	494	594 595	6	1,627	71	161	425 412	84	1,593	5,056			
2007 Average	494 417	637	2	1,637	73 67	131	394	84 84	1,593	4,559			
2008 Average	360	509	2	1,419	61	128	394 363	57	1,408	4,559 4,272			
2009 Average 2010 Average	362	547	4	1,673	68	140	363 310	57 52	1,231	4,272			
2011 Average	355	586	2	1,714	64	138	295	52 59	1,343	4,484			
-01171101ugo				,					.,				
2012 January	201	721	1	2,041	62	^R 128	338	38	1,253	R 4,784			
February	220	808	5	1,994	71	^R 135	250	33	1,238	R 4,754			
March	234	631	1	1,825	57	^R 135	288	35	1,160	R 4,365			
April	327	619	(s)	1,715	64	^R 137	317	36	1,067	R 4,283			
May	383	598	`1	1,705	63	R 141	351	27	1,128	R 4,396			
June	455	513	(s)	1,665	55	^R 141	347	28	1,219	R 4,425			
July	464	393	(s)	1,683	55	R 138	304	36	1,228	R 4,300			
August	497	454	(s)	1,746	56	R 144	368	33	1,221	R 4,518			
September	445	552	` i	1,757	55	R 134	332	31	1,010	R 4,317			
October	374	699	1	1,917	58	R 136	272	27	1,331	R 4,815			
November	282	722	1	1,954	62	R 133	338	27	1,309	R 4,828			
December	201	524	(s)	2,084	47	R 132	327	15	1,408	R 4,738			
Average	340	602	ìí	1,841	59	^R 136	319	30	1,215	^R 4,543			
2012 January	224	751	2	2.254	65	^R 134	350	22	1.171	R 4.974			
2013 January February	215	621	(s)	2,269	65	R 135	229	20	1,171	R 4,769			
March	236	525	3	2,038	65	R 139	241	29	1,114	R 4,390			
April	290	572	1	1,866	58	R 143	219	18	1,114	R 4,356			
May	308	565	(s)	1,702	66	R 146	331	17	1,363	R 4,497			
June	406	500	(s)	1,675	73	R 146	333	19	1,311	R 4,464			
July	453	448	(s)	1,863	63	R 148	306	23	1,336	R 4,640			
August	464	452	(s)	1,784	62	R 147	331	27	1,192	R 4,459			
September	461	543	(5)	1,861	61	R 144	336	24	1,521	R 4,952			
October	377	809	(s)	2,132	60	R 144	256	18	1,178	R 4,975			
November	262	721	(S) (S)	2,132 2,199	51	R 144	256 345	24	1,178	R 5,172			
	180	705	(5)	2,199	59	R 140	251	11	1,426	R 5,035			
December Average	323	601	1	2,308 1,995	62	R 143	294	21	1,377 1,282	R 4,723			
				,					ŕ				
2014 January	177	980	3	2,384	55	R 132	365	16	1,143	R 5,256			
February	205	853	. 1	2,126	60	R 140	238	14	1,301	R 4,939			
March	218	771	(s)	1,944	71	R 140	162	14	1,168	R 4,488			
April	282	794	(s)	1,757	59	R 145	281	19	1,225	R 4,562			
May	350	679	(s)	1,561	68	R 145	316	16	1,145	R 4,280			
June	402	604	(s)	1,675	52	R 146	285	18	1,189	R 4,371			
July	463	603	2	1,690	70	R 149	340	16	1,212	R 4,545			
August	458	557	(s)	1,889	68	R 150	322	13	1,147	R 4,605			
September	444	_ 645	3	1,848	68	R 142	350	17	1,337	R 4,855			
October	393	^R 856	3	1,954	64	^R 148	324	19	1,148	R 4,910			
November	261	662	1	2,133	72	144	367	21	1,159	4,820			
11-Month Average	333	727	1	1,904	64	144	305	17	1,196	4,692			
2013 11-Month Average	337	591	1	1.966	63	143	298	22	1.274	4.694			

day.

Notes: • Data are estimates. • For total petroleum consumption by all sectors, see petroleum products supplied data in Table 3.5. Petroleum products supplied is an approximation of petroleum consumption and is synonymous with the term "petroleum consumption" in Tables 3.7a–3.8c. See Note 1, "Petroleum Products Supplied and Petroleum Consumption," at end of section. • Totals may not equal

Supplied and Petroleum Constitution, 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/#petroleum (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Sources: See end of section.

a Industrial sector fuel use, including that at industrial combined-heat-and-power (CHP) and industrial electricity-only plants.
b Finished motor gasoline. Through 1963, also includes special naphthas. Beginning in 1993, also includes fuel ethanol blended into motor gasoline.
c Pentanes plus, petrochemical feedstocks, still gas (refinery gas), waxes, and miscellaneous products. Beginning in 1964, also includes special naphthas. Beginning in 1981, also includes negative barrels per day of distillate and residual fuel oil reclassified as unfinished oils, and other products (from both primary and secondary supply) reclassified as gasoline blending components. Beginning in 1983, also includes crude oil burned as fuel. Beginning in 2005, also includes naphtha-type jet fuel.
R=Revised. (s)=Less than 500 barrels per day and greater than -500 barrels per

Table 3.7c Petroleum Consumption: Transportation and Electric Power Sectors

(Thousand Barrels per Day)

				Transportati		E	Electric Po	wer Sectora				
	Aviation Gasoline	Distillate Fuel Oil ^b	Jet Fuel ^c	Liquefied Petroleum Gases	Lubri- cants	Motor Gasoline ^d	Residual Fuel Oil	Total	Distillate Fuel Oile	Petro- leum Coke	Residual Fuel Oil ^f	Total
1950 Average 1955 Average 1960 Average 1965 Average 1970 Average 1970 Average 1980 Average 1980 Average 1980 Average 1990 Average 2000 Average 2001 Average 2002 Average 2003 Average 2004 Average 2005 Average 2004 Average 2004 Average 2006 Average 2006 Average 2007 Average 2008 Average 2007 Average 2008 Average 2007 Average 2008 Average 2008 Average 2010 Average	108 192 161 120 55 39 35 27 24 20 19 18 16 17 19 18 17	226 372 418 514 738 998 1,311 1,491 1,722 1,973 2,422 2,489 2,536 2,629 2,783 2,858 3,017 3,037 2,738 2,626 2,738	(°) 154 371 967 997 992 1,062 1,218 1,524 1,725 1,651 1,633 1,633 1,633 1,393 1,393 1,393 1,393	2 9 13 23 31 13 21 16 13 8 10 10 13 20 20 20 20 21 24	64 70 68 67 66 70 71 81 81 74 73 68 69 68 67 69 64 57	2,433 3,221 3,736 4,374 5,589 6,512 6,441 6,667 7,080 7,674 8,370 8,435 8,662 8,733 8,884 9,029 9,093 8,834 8,841 8,841 8,824 8,591	524 440 367 336 332 310 608 342 443 397 386 255 249 321 365 395 402 344 389 338	3,356 4,458 5,135 6,036 7,778 8,951 9,838 10,888 13,012 12,938 13,286 13,720 13,957 14,178 14,287 13,621 13,297 13,621 13,303	15 15 10 14 66 107 79 40 45 51 82 80 60 76 52 54 35 33 33 38 30	NA NA NA 9 1 2 3 145 45 47 79 101 1111 97 78 70 63 66	192 191 231 302 853 1,280 1,069 435 507 247 378 437 287 379 382 382 157 173 104 79 67 41	207 206 241 316 928 1,385 565 564 427 534 535 547 289 293 209 175 170 137
2012 January	12 11 14 17 13 20 13 15 14 10 9	2,454 2,538 2,614 2,748 2,804 2,852 2,818 2,869 2,782 2,848 2,728 2,564 2,719	1,308 1,351 1,381 1,350 1,409 1,546 1,468 1,470 1,378 1,353 1,381 1,381 1,381	29 29 26 25 25 24 24 25 25 28 28 30 27	59 67 54 61 59 52 53 52 55 55 55 45	R 8,042 R 8,442 R 8,427 R 8,582 R 8,817 R 8,833 R 8,651 R 8,988 R 8,406 R 8,543 R 8,329 R 8,327 R 8,525	357 314 333 348 251 279 359 317 305 243 255 138 291	R 12,262 R 12,752 R 12,849 R 13,129 R 13,381 R 13,600 R 13,393 R 13,736 R 12,961 R 13,084 R 12,791 R 12,791 R 12,404 R 13,029	27 23 20 23 28 29 30 24 21 22 24 27 25	65 55 29 28 34 38 41 43 42 37 40 38 41	34 27 29 28 45 52 38 29 31 28 28 33	126 105 77 79 91 112 123 105 92 90 92 93 99
Petron January February March April May June July August September October November December Average	11 8 12 12 15 15 16 14 11 11 11 7	2,543 2,585 2,631 2,862 2,868 2,928 2,952 2,952 2,858 2,994 2,808 2,742 2,805	1,311 1,344 1,393 1,444 1,459 1,454 1,546 1,524 1,417 1,429 1,428 1,428	32 33 29 27 25 24 27 26 27 31 32 33 29	62 62 55 62 69 59 58 56 48 56 59	R 8,176 R 8,239 R 8,480 R 8,661 R 8,909 R 8,976 R 8,955 R 8,778 R 8,778 R 8,757 R 8,508 R 8,769	249 220 367 212 191 230 286 342 309 216 301 109 253	R 12,385 R 12,491 R 12,973 R 13,242 R 13,649 R 13,629 R 13,843 R 13,843 R 13,845 R 13,541 R 13,541 R 13,541 R 13,541 R 13,541 R 13,541 R 13,541 R 13,541	32 24 21 22 26 22 34 22 22 29 19 24 32 25	54 52 51 49 66 70 68 70 66 59 48 57 59	50 37 28 29 28 32 48 33 30 28 27 39 34	136 113 100 99 120 124 150 125 117 106 99 128 118
2014 January	10 7 12 11 14 11 17 14 11 11 11	2,673 2,716 2,770 2,928 2,933 2,987 3,021 3,012 2,775 2,888	1,371 1,373 1,440 1,446 1,404 1,560 1,543 1,516 1,477 1,464 1,488 1,462	34 31 28 25 23 24 24 27 27 28 31	52 57 67 56 64 49 66 64 65 61 68 61	R 8,053 R 8,537 R 8,523 R 8,812 R 8,848 R 9,048 R 9,115 R 8,612 R 9,025 8,764 8,747	103 123 133 223 188 209 186 160 213 R 237 255 185	R 12,297 R 12,843 R 12,973 R 13,502 R 13,473 R 13,706 R 13,906 R 13,909 R 13,319 R 13,346 13,390 13,382	159 46 47 19 25 22 21 22 22 19 27 39	67 60 64 46 58 62 55 56 56 34 44 55	138 55 57 28 24 27 32 34 29 27 26 43	363 162 168 93 106 111 108 112 107 80 97
2013 11-Month Average 2012 11-Month Average	13 14	2,811 2,733	1,435 1,400	28 26	59 57	8,694 8,552	266 306	13,307 13,087	24 25	59 41	34 34	117 99

 ^a 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.
 ^b Beginning in 2009, includes renewable diesel fuel (including biodiesel) blended into distillate fuel oil.
 ^c Beginning in 1957, includes kerosene-type jet fuel. For 1952–2004, also includes naphtha-type jet fuel. (Through 1951, naphtha-type jet fuel is included in the products from which it was blended—gasoline, kerosene, and distillate fuel oil. Beginning in 2005, naphtha-type jet fuel is included in "Other" on Table 3.7b.)
 ^d Finished motor gasoline. Through 1963, also includes special naphthas. Beginning in 1993, also includes fuel ethanol blended into motor gasoline.
 ^e Fuel oil nos. 1, 2, and 4. Through 1979, data are for gas turbine and internal combustion plant use of petroleum. Through 2000, electric utility data also include small amounts of kerosene and jet fuel.

f Fuel oil nos. 5 and 6. Through 1979, data are for steam plant use of petroleum. Through 2000, electric utility data also include a small amount of fuel oil

petroleum. Through 2000, electric utility data also include a small amount of rue of no. 4.

R=Revised. NA=Not available.

Notes: • Transportation sector data are estimates. • For total petroleum consumption by all sectors, see petroleum products supplied data in Table 3.5.

Petroleum products supplied is an approximation of petroleum consumption and is synonymous with the term "petroleum consumption" in Tables 3.7a–3.8c. See Note 1, "Petroleum Products Supplied and Petroleum Consumption," at end of section.

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

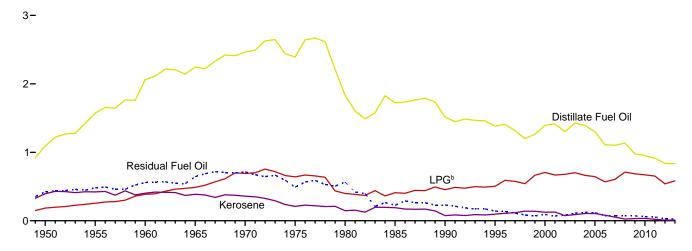
• Geographic coverage is the 50 states and the District of Columbia.

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

beginning in 1973.
Sources: See end of section.

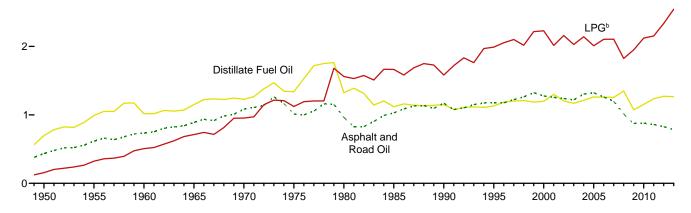
Figure 3.8a Heat Content of Petroleum Consumption by End-Use Sector, 1949–2013 (Quadrillion Btu)

Residential and Commercial^a Sectors, Selected Products

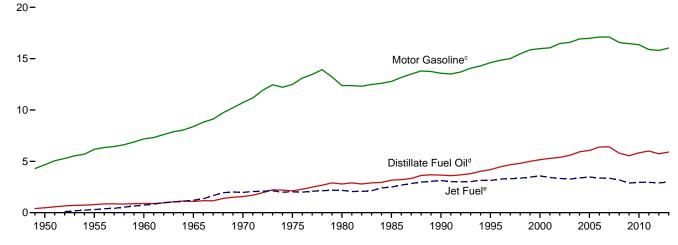


Industrial^a Sector, Selected Products





Transportation Sector, Selected Products



^a Includes combined-heat-and-power plants and a small number of electricity-only plants.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

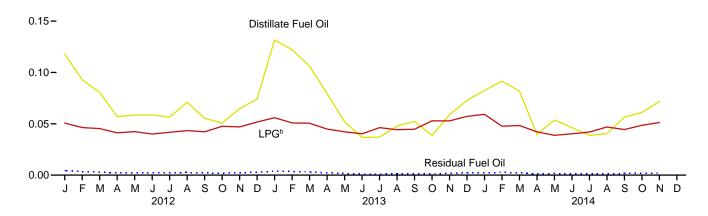
^dBeginning in 2009, includes renewable diesel fuel (including biodie-

sel) blended into distillate fuel oil.

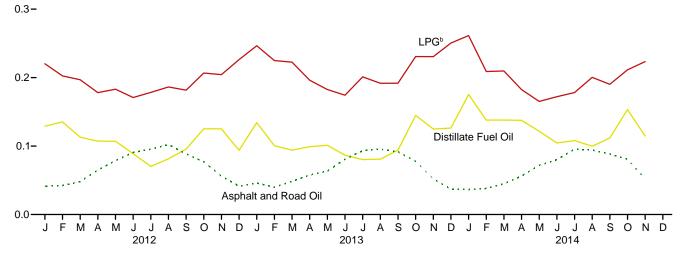
^e Beginning in 2005, includes kerosene-type jet fuel only. Web Page: http://www.eia.gov/totalenergy/data/monthly/#petroleum. Sources: Tables 3.8a–3.8c.

Figure 3.8b Heat Content of Petroleum Consumption by End-Use Sector, Monthly (Quadrillion Btu)

Residential and Commercial^a Sectors, Selected Products 0.20-

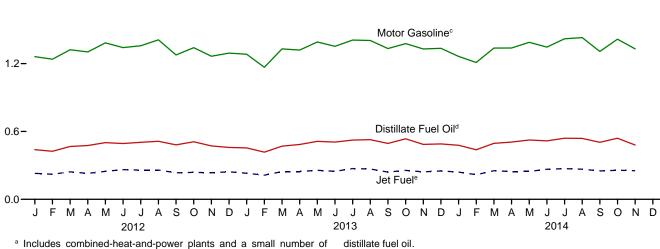


Industrial^a Sector, Selected Products



Transportation Sector, Selected Products

1.8-



electricity-only plants.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#petroleum. Sources: Tables 3.8a-3.8c.

^b Liquefied petroleum gases.

[°] Includes fuel ethanol blended into motor gasoline.

^d Includes renewable diesel fuel (including biodiesel) blended into

distillate fuel oil.

^e Includes kerosene-type jet fuel only.

Table 3.8a Heat Content of Petroleum Consumption: Residential and Commercial Sectors (Trillion Btu)

		Resident	ial Sector				Com	nmercial Sec	ctora		
	Distillate Fuel Oil	Kerosene	Liquefied Petroleum Gases	Total	Distillate Fuel Oil	Kerosene	Liquefied Petroleum Gases	Motor Gasoline ^b	Petroleum Coke	Residual Fuel Oil	Total
1950 Total 1955 Total 1960 Total 1960 Total 1960 Total 1960 Total 1970 Total 1970 Total 1975 Total 1980 Total 1985 Total 1995 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2008 Total 2009 Total 2001 Total	829 1,194 1,568 1,713 1,878 1,807 1,316 1,092 904 907 859 931 923 853 709 721 750 582 562 523	347 371 354 334 298 161 107 159 64 74 95 95 60 70 85 84 66 44 21 28 29	146 202 305 385 549 512 311 314 352 395 555 526 537 544 512 513 446 484 553 547 530 506	1,322 1,767 2,227 2,432 2,725 2,479 1,734 1,565 1,394 1,373 1,558 1,456 1,546 1,546 1,549 1,450 1,221 1,229 1,324 1,121 1,048	262 377 494 534 587 518 631 536 478 490 508 444 496 470 447 400 381 384 395 391	47 51 48 54 61 49 41 33 12 22 30 31 16 19 20 22 15 9 4 4 4 5 3	39 54 81 103 143 129 88 95 102 109 150 143 141 157 152 131 123 121 158 139 140 146	100 133 67 77 86 89 107 96 111 18 45 37 45 60 45 46 48 60 45 52 52 44	NA (S)	424 480 559 645 714 492 565 228 230 141 92 70 80 111 122 116 75 75 71 71 62 54	872 1,095 1,248 1,413 1,546 1,318 1,081 769 807 778 842 810 762 663 663 663 663 663 663
2012 January	68 53 46 33 34 34 33 41 32 29 37 43	1 3 1 (s) 1 (s) (s) (s) (s) (s) (s) (s) (s)	38 34 34 31 32 30 31 32 31 35 35 39	106 91 81 64 66 64 73 64 65 73 81	50 39 34 24 25 25 25 24 30 23 21 27 31 355	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	13 12 12 11 11 11 10 11 11 11 12 12 13	3 83 83 83 83 83 83 83 83 83	(s) (s) (s) (s) 0 0 (s) (s) (s) (s) (s) (s)	4 3 3 2 2 2 2 2 2 2 2 2 2 2 2 3 3 2 2 2 2 3	71 R 58 R 52 40 R 41 41 40 R 47 40 39 45 51 R 564
2013 January	78 72 62 47 31 22 22 28 31 23 35 43	1 (s) 2 (s)	42 38 38 33 31 30 34 33 33 39 43 434	121 110 102 81 62 52 56 61 65 62 74 88 933	54 50 44 33 21 15 15 20 22 16 24 30 344	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	14 13 13 11 11 11 10 12 11 11 13 13 15	R3 R3 R3 R3 R3 R3 R3 R3 R4	(s) (s) (s) (s) 0 0 (s) (s) (s) (s) (s) (s)	4 4 3 2 2 1 1 1 1 2 1 2 2 2	76 70 R 63 50 37 30 32 36 38 44 43 R 50 R 558
2014 January	49 54 48 23 32 27 23 24 33 R 36 42 391	2 1 (s) (s) (s) (s) (s) 2 2 1	44 35 36 31 29 30 31 35 33 36 38 379	95 90 84 55 61 57 55 59 68 R 74 81 780	34 38 34 16 22 19 16 17 23 R 25 30 273	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	15 12 12 11 10 10 11 12 11 12 13 130	3 R3 R3 R3 R3 R4 4 4 3 3	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	2 3 2 1 2 1 1 1 2 2 2 2 2 1	55 56 52 32 37 34 R 31 R 33 40 R 43 48
2013 11-Month Total 2012 11-Month Total	449 440	5 7	391 363	845 810	314 324	1 1	134 124	37 35	(s) (s)	22 29	508 514

^a Commercial sector fuel use, including that commercial

and is synonymous with the term "petroleum consumption" in Tables 3.7a–3.8c. See Note 1, "Petroleum Products Supplied and Petroleum Consumption," 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/#petroleum (Excel and CSV files) for all available annual data beginning in 1949 and monthly data

a Commercial sector tuel use, including that at commercial combined-heat-and-power (CHP) and commercial electricity-only plants.
b Finished motor gasoline. Through 1963, also includes special naphthas.
Beginning in 1993, also includes fuel ethanol blended into motor gasoline.
R=Revised. NA=Not available. (s)=Less than 0.5 trillion Btu and greater than 0.5 trillion Btu.

Notes: • Data are estimates. • For total heat content of petroleum consumption by all sectors, see data for heat content of petroleum products supplied in Table 3.6. Petroleum products supplied is an approximation of petroleum consumption

Table 3.8b Heat Content of Petroleum Consumption: Industrial Sector

(Trillion Btu)

	Industrial Sector ^a										
	Asphalt and Road Oil	Distillate Fuel Oil	Kerosene	Liquefied Petroleum Gases	Lubricants	Motor Gasoline ^b	Petroleum Coke	Residual Fuel Oil	Other ^c	Total	
1950 Total	435	698	274	156	94	251	90	1,416	546	3.960	
1955 Total	615	991	241	323	103	332	147	1,573	798	5.123	
1960 Total	734	1.016	161	507	107	381	328	1,584	947	5,766	
1965 Total	890	1,150	165	712	137	342	444	1,582	1,390	6,813	
1970 Total	1.082	1,226	185	953	155	288	446	1,624	1,817	7.776	
1975 Total	1.014	1,339	119	1,123	149	223	540	1,509	2,109	8,127	
1980 Total	962	1,324	181	1,559	182	158	516	1,349	3,278	9,509	
1985 Total	1,029	1,119	44	1,664	166	218	575	748	2.152	7,714	
1990 Total	1,170	1,150	12	1,582	186	185	714	411	2,839	8,251	
1995 Total	1,178	1,130	15	1,990	178	200	721	337	2.837	8.587	
2000 Total	1,276	1,199	16	2,228	190	150	796	241	2,979	9.075	
2001 Total	1,257	1,299	23	2,014	174	295	858	203	3.056	9.179	
2002 Total	1,240	1,203	14	2,160	172	309	842	190	3,040	9,170	
2003 Total	1,220	1,169	24	2,028	159	324	825	220	3,264	9,233	
2004 Total	1,304	1,213	28	2,141	161	371	937	249	3,428	9.832	
2005 Total	1,323	1,262	39	2,009	160	355	894	281	3,318	9,641	
2006 Total	1,261	1,258	30	2,104	156	374	938	239	3,416	9.777	
2007 Total	1,197	1,256	13	2,104	161	302	910	193	3,313	9,452	
2008 Total	1,012	1,348	4	1,823	150	246	870	194	2,941	8,588	
2009 Total	873	1,073	4	1,950	135	238	805	130	2,611	7.819	
2010 Total	878	1,153	7	2,121	149	260	694	120	2,800	8,183	
2011 Total	859	1,236	4	2,152	142	255	663	135	2,676	8,121	
2012 January	41	129	(s)	220	12	R 20	64	7	221	^R 716	
February	42	135	1	203	13	R 20	45	6	208	R 671	
March	48	113	(s)	197	11	R 21	55	7	208	R 660	
April	65	107	(s)	178	12	R 21	58	7	184	R 632	
May	79	107	(s)	183	12	R 22	67	5	200	R 674	
June	91	89	(s)	171	10	R 21	64	5	212	R 663	
July	95	70	(s)	178	10	R 22	58	7	219	R 660	
August	102	81	(s)	186	11	R 23	70	6	217	R 696	
September	89	96	(s)	182	10	R 20	61	6	176	R 639	
October	77	125	(s)	207	11	R 21	52	5	236	R 734	
November	56	125	(s)	204	11	R 20	62	5	226	R 710	
December	41	94	(s)	226	9	R 21	62	3	252	R 708	
Total	827	1,271	2	2,335	130	R 252	717	70	2,558	R 8,163	
2013 January	46	134	(s)	247	12	R 21	67	4	208	R 739	
February	40	100	(s)	225	11	R 19	40	4	196	R 635	
March	48	94	(s)	223	12	R 22	46	6	197	R 649	
April	58	99	(s)	196	11	R 22	41	3	204	R 633	
May	63	101	(s)	183	12	R 23	63	3	241	R 690	
June	81	87	(s)	174	13	R 22	62	4	223	R 666	
July	93	80	(s)	201	12	R 23	59	5	241	R 713	
August	95	81	(s)	192	12	R 23	63	5	212	R 683	
September	92	94	(s)	192	11	R 22	62	5	258	R 736	
October	78	145	(s)	231	11	R 23	49	3	211	^R 751	
November	52	125	(s)	231	9	R 22	64	5	243	R 750	
December	37	126	1	251	11	R 22	48	2	244	^R 741	
Total	783	1,267	2	2,544	138	R 264	662	48	2,677	R 8,385	
2014 January	36	175	1	261	10	R 21	70	3	206	R 783	
February	38	138	(s)	209	10	R 20	41	3	210	R 669	
March	45	138	(s)	210	13	R 22	31	3	210	R 672	
April	56	138	(s)	183	11	R 22	52	4	214	^R 678	
May	72	122	(s)	165	13	R 23	60	3	207	R 664	
June	80	105	(s)	172	9	R 22	53	3	204	^R 648	
July	95	108	(s)	178	13	R 23	65	3	215	R 702	
August	94	100	(s)	200	13	R 24	62	3	205	R 699	
September	88	112	1	190	12	R 22	65	3	230	^R 723	
October	81	R 153	i	211	12	R 23	62	4	205	R 751	
November	52	115	(s)	223	13	22	68	4	201	698	
11-Month Total		1,403	3	2,203	130	243	627	35	2,306	7,688	
2013 11-Month Total	746	1,141	1	2,293	127	242	614	46	2,434	7,644	
2012 11-Month Total		1,178	2	2,109	122	232	655	67	2,307	7,456	

Notes: • Data are estimates. • For total heat content of petroleum consumption by all sectors, see data for heat content of petroleum products supplied in Table by all sectors, see data for heat content of petroleum products supplied in Table 3.6. Petroleum products supplied is an approximation of petroleum consumption and is synonymous with the term "petroleum consumption" in Tables 3.7a–3.8c. See Note 1, "Petroleum Products Supplied and Petroleum Consumption," 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/#petroleum (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

a Industrial sector fuel use, including that at industrial combined-heat-and-power (CHP) and industrial electricity-only plants.
b Finished motor gasoline. Through 1963, also includes special naphthas. Beginning in 1993, also includes fuel ethanol blended into motor gasoline.
c Pentanes plus, petrochemical feedstocks, still gas (refinery gas), waxes, and miscellaneous products. Beginning in 1964, also includes special naphthas. Beginning in 1981, also includes negative barrels per day of distillate and residual fuel oil reclassified as unfinished oils, and other products (from both primary and secondary supply) reclassified as gasoline blending components. Beginning in 1983, also includes crude oil burned as fuel. Beginning in 2005, also includes naphtha-type jet fuel.
R=Revised. (s)=Less than 0.5 trillion Btu and greater than -0.5 trillion Btu.

beginning in 1973.
Sources: See end of section.

Table 3.8c Heat Content of Petroleum Consumption: Transportation and Electric Power Sectors (Trillion Btu)

	CLOIS	(Trillion E	olu)									
				Transporta	tion Secto	r			E	Electric Po	wer Sectora	
	Aviation Gasoline	Distillate Fuel Oil ^b	Jet Fuel ^c	Liquefied Petroleum Gases	Lubri- cants	Motor Gasoline ^d	Residual Fuel Oil	Total	Distillate Fuel Oil ^e	Petro- leum Coke	Residual Fuel Oil ^f	Total
1950 Total	199 354 298 222	480 791 892 1.093	(°) 301 739 1,215	3 13 19 32	141 155 152 149	4,664 6,175 7,183 8,386	1,201 1,009 844 770	6,690 8,799 10,125 11,866	32 32 22 29	NA NA NA	440 439 530 693	472 471 553 722
1970 Total 1975 Total 1980 Total 1985 Total	100 71 64 50	1,569 2,121 2,795 3,170	1,973 2,029 2,179 2,497	44 43 18 30	147 155 172 156	10,716 12,485 12,383 12,784	761 711 1,398 786	15,310 17,615 19,009 19,472	141 226 169 85	19 2 5 7	1,958 2,937 2,459 998	2,117 3,166 2,634 1,090
1990 Total 1995 Total 2000 Total 2001 Total	45 40 36 35	3,661 4,191 5,159 5,286	3,129 3,132 3,580 3,426	23 18 12 14	176 168 179 164	13,575 14,616 15,973 16,053	1,016 911 888 586	21,626 23,075 25,827 25,564	97 108 175 170	30 81 99 103	1,163 566 871 1,003	1,289 755 1,144 1,276
2002 Total	34 30 31 35	5,387 5,584 5,925 6,068	3,340 3,265 3,383 3,475	14 18 19 28	162 150 152 151	16,474 16,585 16,917 16,977	677 571 740 837	26,089 26,203 27,166 27,573	127 161 111 114	175 175 211 231	659 869 879 876	961 1,205 1,201 1,222
2006 Total	33 32 28 27 27	6,390 6,413 5,792 5,541 5,828	3,379 3,358 3,193 2,883 2,963	27 22 40 28 29	147 152 141 127 141	17,108 17,109 16,574 16,460 16,356	906 994 926 791 892	27,991 28,078 26,695 25,857 26,236	73 89 73 70 80	203 163 146 132 137	361 397 240 181 154	637 648 459 382 370
2011 Total	27	6,003	2,950	34	134	15,892	776	25,817	64	138	93	295
2012 January February March	2 2 2	439 425 468	230 222 243	3 3 3	11 12 10	R 1,262 1,240 1,323	70 57 65	R 2,017 R 1,960 R 2,113	5 4 4	11 9 5	7 5 6	23 18 14
April May June	2 3 2	476 502 494	230 248 263	3 3 3	11 11 10	1,304 R 1,384 1,342	66 49 53	2,091 2,199 ^R 2,165	4 5 5	5 6 7	5 6 9	14 17 20
July August September October	3 2 2 2 2	504 513 481 509 472	258 258 234 238 235	3 3 3 3	10 10 9 10 11	R 1,358 1,411 1,277 R 1,341 R 1,265	70 62 57 47 48	2,206 R 2,259 2,065 R 2,151 R 2,036	5 4 4 4 4	7 8 7 7	10 7 6 6 5	23 19 16 16
November December Total	1	459 5,741	243 2,901	3 37	123	R 1,293 R 15,798	27 671	2,035 R 25,297	5 52	7 85	6 77	16 17 214
2013 January February March April	2	455 417 470 485	230 213 245 246	4 4 3 3	12 11 12 10	R 1,283 R 1,168 R 1,331 R 1,320	49 39 72 40	R 2,034 R 1,852 R 2,134 R 2,105	6 4 4 4	10 8 9 8	10 6 6 6	25 19 18 18
May June July		513 507 524 528	256 247 272 268	3 3 3 3	12 12 11 11	R 1,391 R 1,353 R 1,409 R 1,405	37 43 56 67	R 2,215 R 2,168 R 2,277 R 2,283	5 4 6 4	12 12 12 12	5 6 9 6	22 22 28 23
August September October November December	2 2 2 2	526 494 535 486 490	241 256 243 251	3 4 4 4	11 11 11 9 10	R 1,333 R 1,377 R 1,330 R 1,335	58 42 57 21	R 2,142 R 2,126 R 2,130 R 2,113	4 3 4 6	11 10 8 10	6 5 5 8	23 21 19 17 23
Total	22	5,903	2,969	40	130	R 16,035	580	R 25,680	53	123	78	255
2014 January	2 1 2 2	478 439 495 507	241 218 253	4 3 3 3	10 10 13 10	R 1,264 R 1,210 R 1,337 R 1,338	20 22 26 42	R 2,018 R 1,902 R 2,130 R 2,148	28 7 8 3	12 10 11	27 10 11	67 27 31 17
April May June July	2 2 3	524 517 540	246 247 265 271	3 3 3	12 9 12	R 1,388 R 1,346 R 1,420	37 39 36	R 2,213 R 2,181 R 2,285	4 4 4	8 10 11 10	5 5 6 7	19 20 20
August September October November 11-Month Total	2 2 2 2 20	538 504 R 540 480 5,562	266 251 257 253 2,769	3 3 4 35	12 12 11 12 123	R 1,430 R 1,308 R 1,416 1,331 14,789	31 40 46 48 388	R 2,284 R 2,120 R 2,276 2,130 23,687	4 4 3 5 75	10 10 6 8 104	7 5 5 5 91	20 19 15 17 271
2013 11-Month Total 2012 11-Month Total	21 24	5,413 5,283	2,717 2,659	36 34	120 115	14,700 14,505	559 644	23,567 23,262	47 48	113 78	71 71	231 197

^a Electricity-only and combined-heat-and-power (CHP) plants within the NAICS

petroleum. Through 2000, electric utility data also include a small amount of fuel oil

 ^a 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 only; beginning in 1989, data are for electric utilities and independent power producers.
 ^b Beginning in 2009, includes renewable diesel fuel (including biodiesel) blended into distillate fuel oil.
 ^c Beginning in 1957, includes kerosene-type jet fuel. For 1952–2004, also includes naphtha-type jet fuel. (Through 1951, naphtha-type jet fuel is included in the products from which it was blended—gasoline, kerosene, and distillate fuel oil. Beginning in 2005, naphtha-type jet fuel is included in "Other" on Table 3.8b.)
 ^d Finished motor gasoline. Through 1963, also includes special naphthas. Beginning in 1993, also includes fuel ethanol blended into motor gasoline.
 ^e Fuel oil nos. 1, 2, and 4. Through 1979, data are for gas turbine and internal combustion plant use of petroleum. Through 2000, electric utility data also include small amounts of kerosene and jet fuel.
 ^f Fuel oil nos. 5 and 6. Through 1979, data are for steam plant use of

petroleum. Inrough 2000, electric utility data also include a small amount of fuel oil no. 4.

R=Revised. NA=Not available.

Notes: • Transportation sector data are estimates. • For total heat content of petroleum consumption by all sectors, see data for heat content of petroleum products supplied in Table 3.6. Petroleum products supplied is an approximation of petroleum consumption and is synonymous with the term "petroleum consumption" in Tables 3.7a=3.8c. See Note 1, "Petroleum Products Supplied and Petroleum Consumption," 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.

of Columbia.

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

beginning in 1973. Sources: See end of section.

Petroleum

Note 1. Petroleum Products Supplied and Petroleum **Consumption.** Total petroleum products supplied is the sum of the products supplied for each petroleum product, crude oil, unfinished oils, and gasoline blending components. For each of these except crude oil, product supplied is calculated by adding refinery production, natural gas plant liquids production, new supply of other liquids, imports, and stock withdrawals, and subtracting stock additions, refinery inputs, and exports. Crude oil product supplied is the sum of crude oil burned on leases and at pipeline pump stations as reported on Form EIA-813, "Monthly Crude Oil Report." Prior to 1983, crude oil burned on leases and used at pipeline pump stations was reported as either distillate or residual fuel oil and was included as product supplied for these products. Petroleum product supplied (see Tables 3.5 and 3.6) is an approximation of petroleum consumption and is synonymous with the term "Petroleum Consumption" in Tables 3.7a-3.8c.

Note 2. Petroleum Survey Respondents. The U.S. Energy Information Administration (EIA) uses a number of sources and methods to maintain the survey respondent lists. On a regular basis, survey managers review such industry publications as the *Oil & Gas Journal* and *Oil Daily* for information on facilities or companies starting up or closing down operations. Those sources are augmented by articles in newspapers, communications from respondents indicating changes in status, and information received from survey systems.

To supplement routine frames maintenance and to provide more thorough coverage, a comprehensive frames investigation is conducted every 3 years. This investigation results in the reassessment and recompilation of the complete frame for each survey. The effort also includes the evaluation of the impact of potential frame changes on the historical time series of data from these respondents. The results of this frame study are usually implemented in January to provide a full year under the same frame.

Note 3. Historical Petroleum Data. Detailed information on petroleum data through 1993 can be found in Notes 1–6 on pages 60 and 61 in the July 2013 *Monthly Energy Review (MER)* at

http://www.eia.gov/totalenergy/data/monthly/archive/00351307.pdf. The notes discuss:

Note 1, "Petroleum Survey Respondents": In 1993, EIA added numerous companies that produce, blend, store, or import oxygenates to the monthly surveys.

Note 2, "Motor Gasoline": In 1981, EIA expanded its universe to include nonrefinery blenders and separated blending components from finished motor gasoline as a reporting category. In 1993, EIA made adjustments to finished motor gasoline product supplied data to more accurately account for fuel ethanol and motor gasoline blending components blended into finished motor gasoline.

Note 3, "Distillate and Residual Fuel Oils": In 1981, EIA eliminated the requirement to report crude oil in pipelines or burned on leases as either distillate or residual fuel oil.

Note 4, "Petroleum New Stock Basis": In 1975, 1979, 1981, and 1983, EIA added numerous respondents to bulk terminal and pipeline surveys; in 1984, EIA made changes in the reporting of natural gas liquids; and in 1993, EIA changed how it collected bulk terminal and pipeline stocks of oxygenates. These changes affected stocks reported and stock change calculations.

Note 5, "Stocks of Alaskan Crude Oil": In 1981, EIA began to include data for stocks of Alaskan crude oil in transit. Note 6, "Petroleum Data Discrepancies": In 1976, 1978, and 1979, there are some small discrepancies between data in the MER and the *Petroleum Supply Annual*.

Table 3.1 Sources

1949–1975: Bureau of Mines, Mineral Industry Surveys, *Petroleum Statement, Annual*, annual reports.

1976–1980: U.S. Energy Information Administration (EIA), Energy Data Reports, *Petroleum Statement, Annual*, annual reports.

1981–2001: EIA, *Petroleum Supply Annual (PSA)*, annual reports.

2002 forward: EIA, PSA, annual reports, and unpublished revisions; *Petroleum Supply Monthly*, monthly reports; revisions to crude oil production, total field production, and adjustments (based on crude oil production data from: state government agencies; U.S. Department of the Interior, Bureau of Safety and Environmental Enforcement, and predecessor agencies; and Form EIA-182, "Domestic Crude Oil First Purchase Report"); and, for the current two months, *Weekly Petroleum Status Report* data system and *Monthly Energy Review* data system calculations.

Table 3.6 Sources

Asphalt and Road Oil

Product supplied data in thousand barrels per day for asphalt and road oil are from Table 3.5, and are converted to trillion Btu by multiplying by the asphalt and road oil heat content factors in Table A1.

Aviation Gasoline

Product supplied data in thousand barrels per day for aviation gasoline are from Table 3.5, and are converted to trillion Btu by multiplying by the aviation gasoline (finished) heat content factor in Table A1.

Distillate Fuel Oil

1949–2008: Product supplied data in thousand barrels per day for distillate fuel oil are from Table 3.5, and are converted to trillion Btu by multiplying by the distillate fuel oil heat content factors in Table A3.

2009 forward: Data in thousand barrels per day for refinery and blender net inputs of renewable diesel fuel, from U.S. Energy Information's (EIA) *Petroleum Supply Annual (PSA)* and *Petroleum Supply Monthly (PSM)*, are converted to trillion Btu by multiplying by the biodiesel heat content factor in Table A1. Product supplied data in thousand barrels per day for distillate fuel oil, from Table 3.5, minus data in thousand barrels per day for refinery and blender net inputs of renewable diesel fuel, from the PSA/PSM, are converted to trillion Btu by multiplying by the distillate fuel oil heat content factors in Table A3. Total distillate fuel oil product supplied is the sum of the data in trillion Btu for renewable diesel fuel and distillate fuel oil (excluding renewable diesel fuel).

Jet Fuel

Product supplied data in thousand barrels per day for kerosene-type jet fuel and, through 2004, naphtha-type jet fuel are from EIA's PSA, PSM, and earlier publications (see sources for Table 3.5). These data are converted to trillion Btu by multiplying by the appropriate heat content factors in Table A1. Total jet fuel product supplied is the sum of the data in trillion Btu for kerosene-type and naphtha-type jet fuel.

Kerosene

Product supplied data in thousand barrels per day for kerosene are from Table 3.5, and are converted to trillion Btu by multiplying by the kerosene heat content factor in Table A1.

Liquefied Petroleum Gases (LPG) Total

Prior to the current two months, product supplied data in thousand barrels per day for the component products of LPG (ethane/ethylene, propane/propylene, normal butane/butylene, and isobutane/isobutylene) are from the PSA, PSM, and earlier publications (see sources for Table 3.5). These data are converted to trillion Btu by multiplying by the appropriate heat content factors in Table A1. Total LPG product supplied is the sum of the data in trillion Btu for the LPG component products.

For the current two months, product supplied data in thousand barrels per day for total LPG are from Table 3.5, and are converted to trillion Btu by multiplying by the LPG heat content factors in Table A3.

Lubricants

Product supplied data in thousand barrels per day for lubricants are from Table 3.5, and are converted to trillion Btu by multiplying by the lubricants heat content factor in Table A1.

Motor Gasoline

Product supplied data in thousand barrels per day for motor gasoline are from Table 3.5, and are converted to trillion Btu by multiplying by the motor gasoline heat content factors in Table A3.

Other Petroleum Products

Prior to the current two months, product supplied data in thousand barrels per day for "other" petroleum products are from the PSA, PSM, and earlier publications (see sources for Table 3.5). "Other" petroleum products include pentanes plus, petrochemical feedstocks, special naphthas, still gas (refinery gas), waxes, and miscellaneous products; beginning in 1981, also includes negative barrels per day of distillate and residual fuel oil reclassified as unfinished oils, and other products (from both primary and secondary supply) reclassified as gasoline blending components; beginning in 1983, also includes crude oil burned as fuel; and beginning in 2005, also includes naphtha-type jet fuel. These data are converted to trillion Btu by multiplying by the appropriate heat content factors in MER Table A1. Total "Other" petroleum product supplied is the sum of the data in trillion Btu for the individual products.

For the current two months, total "Other" petroleum products supplied is calculated by first estimating total petroleum products supplied (product supplied data in thousand barrels per day for total petroleum from Table 3.5 are converted to trillion Btu by multiplying by the total petroleum consumption heat content factor in Table A3), and then subtracting data in trillion Btu (from Table 3.6) for asphalt and road oil, aviation gasoline, distillate fuel oil, jet fuel, kerosene, total LPG, lubricants, motor gasoline, petroleum coke, and residual fuel oil.

Petroleum Coke

Product supplied data in thousand barrels per day for petroleum coke are from Table 3.5, and are converted to trillion Btu by multiplying by the petroleum coke heat content factors in Table A3.

Propane

Product supplied data in thousand barrels per day for propane are from Table 3.5, and are converted to trillion Btu by multiplying by the propane/propylene heat content factor in Table A1.

Residual Fuel Oil

Product supplied data in thousand barrels per day for residual fuel oil are from Table 3.5, and are converted to trillion Btu by multiplying by the residual fuel oil heat content factor in Table A1.

Total Petroleum

Total petroleum products supplied is the sum of the data in trillion Btu for the products (except "Propane") shown in Table 3.6.

Tables 3.7a-3.7c Sources

Petroleum consumption data for 1949–1972 are from the following sources:

1949–1959: Bureau of Mines, Mineral Industry Surveys, *Petroleum Statement, Annual*, annual reports, and U.S. Energy Information Administration (EIA) estimates.

1960-1972: EIA, State Energy Data System.

Petroleum consumption data beginning in 1973 are derived from data for "petroleum products supplied" from the following sources:

1973–1975: Bureau of Mines, Mineral Industry Surveys, *Petroleum Statement Annual*, annual reports.

1976–1980: EIA, Energy Data Reports, *Petroleum Statement Annual*, annual reports.

1981–2013: EIA, *Petroleum Supply Annual*, annual reports, and unpublished revisions.

2014: EIA, Petroleum Supply Monthly, monthly reports.

Beginning in 1973, energy-use allocation procedures by individual product are as follows:

Asphalt and Road Oil

All consumption of asphalt and road oil is assigned to the industrial sector.

Aviation Gasoline

All consumption of aviation gasoline is assigned to the transportation sector.

Distillate Fuel Oil

Distillate fuel oil consumption is assigned to the sectors as follows:

Distillate Fuel Oil, Electric Power Sector

See sources for Table 7.4b. For 1973–1979, electric utility consumption of distillate fuel oil is assumed to be the amount of petroleum (minus small amounts of kerosene and kerosene-type jet fuel deliveries) consumed in gas turbine and internal combustion plants. For 1980–2000, electric utility consumption of distillate fuel oil is assumed to be the amount of light oil (fuel oil nos. 1 and 2, plus small amounts of kerosene and jet fuel) consumed.

Distillate Fuel Oil, End-Use Sectors, Annual Data

The aggregate end-use amount is total distillate fuel oil supplied minus the amount consumed by the electric power sector. The end-use total consumed annually is allocated to the individual end-use sectors (residential, commercial, industrial, and transportation) in proportion to each sector's share of sales as reported in EIA's *Fuel Oil and Kerosene Sales* (*Sales*) report series (DOE/EIA-0535), which is based primarily on data collected by Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report" (previously Form EIA-172). Shares for the current year are based on the most recent Sales report.

Following are notes on the individual sector groupings:

Beginning in 1979, the residential sector sales total is directly from the Sales reports. Through 1978, each year's

sales subtotal of the heating plus industrial category is split into residential, commercial, and industrial (including farm) in proportion to the 1979 shares.

Beginning in 1979, the commercial sector sales total is directly from the Sales reports. Through 1978, each year's sales subtotal of the heating plus industrial category is split into residential, commercial, and industrial (including farm) in proportion to the 1979 shares.

Beginning in 1979, the industrial sector sales total is the sum of the sales for industrial, farm, oil company, off-highway diesel, and all other uses. Through 1978, each year's sales subtotal of the heating plus industrial category is split into residential, commercial, and industrial (including farm) in proportion to the 1979 shares, and this estimated industrial portion is added to oil company, off-highway diesel, and all other uses.

The transportation sector sales total is the sum of the sales for railroad, vessel bunkering, on-highway diesel, and military uses for all years.

Distillate Fuel Oil, End-Use Sectors, Monthly Data

Residential sector and commercial sector monthly consumption is estimated by allocating the annual estimates, which are described above, into the months in proportion to each month's share of the year's sales of No. 2 heating oil. (For each month of the current year, the residential and commercial consumption increase from the same month in the previous year is based on the percent increase in that month's No. 2 heating oil sales from the same month in the previous year.) The years' No. 2 heating oil sales totals are from the following sources: for 1973–1980, the Ethyl Corporation, Monthly Report of Heating Oil Sales; for 1981 and 1982, the American Petroleum Institute, Monthly Report of Heating Oil Sales; and for 1983 forward, EIA, Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," No. 2 Fuel Oil Sales to End Users and for Resale.

The transportation highway use portion is allocated into the months in proportion to each month's share of the year's total sales for highway use as reported by the Federal Highway Administration's Table MF-25, "Private and Commercial Highway Use of Special Fuels by Months." Beginning in 1994, the sales-for-highway-use data are no longer available as a monthly series; the 1993 data are used for allocating succeeding year's totals into months.

A distillate fuel oil "balance" is calculated as total distillate fuel oil supplied minus the amount consumed by the electric power sector, residential sector, commercial sector, and for highway use.

Industrial sector monthly consumption is estimated by multiplying each month's distillate fuel oil "balance" by the annual industrial consumption share of the annual distillate fuel oil "balance."

Total transportation sector monthly consumption is estimated as total distillate fuel oil supplied minus the amount consumed by the residential, commercial, industrial, and electric power sectors.

Jet Fuel

Through 1982, small amounts of kerosene-type jet fuel were consumed by the electric power sector. Kerosene-type jet fuel deliveries to the electric power sector as reported on Form FERC-423 (formerly Form FPC-423) were used as estimates of this consumption. Through 2004, all remaining jet fuel (kerosene-type and naphtha-type) is assigned to the transportation sector. Beginning in 2005, kerosene-type jet fuel is assigned to the transportation sector, while naphtha-type jet fuel is classified under "Other Petroleum Products," which is assigned to the industrial sector.

Kerosene

Kerosene product supplied is allocated to the individual end-use sectors (residential, commercial, and industrial) in proportion to each sector's share of sales as reported in EIA's *Fuel Oil and Kerosene Sales* (*Sales*) report series (DOE/EIA-0535), which is based primarily on data collected by Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report" (previously Form EIA-172).

Beginning in 1979, the residential sector sales total is directly from the Sales reports. Through 1978, each year's sales category called "heating" is allocated to the residential, commercial, and industrial sectors in proportion to the 1979 shares.

Beginning in 1979, the commercial sector sales total is directly from the Sales reports. Through 1978, each year's sales category called "heating" is allocated to the residential, commercial, and industrial sectors in proportion to the 1979 shares.

Beginning in 1979, the industrial sector sales total is the sum of the sales for industrial, farm, and all other uses. Through 1978, each year's sales category called "heating" is allocated to the residential, commercial and industrial sectors in proportion to the 1979 shares, and the estimated industrial (including farm) portion is added to all other uses.

Liquefied Petroleum Gases (LPG)

The annual shares of LPG's total consumption that are estimated to be used by each sector are applied to each month's total LPG consumption to create monthly sector consumption estimates. The annual sector shares are calculated as described below.

Sales of LPG to the residential and commercial sectors combined are converted from thousand gallons per year to thousand barrels per year and are assumed to be the annual consumption of LPG by the combined sectors. Beginning in 2003, residential sector LPG consumption is assumed to equal propane retail sales, with the remainder of the combined residential and commercial LPG consumption being assigned to the commercial sector. Through 2002, residential sector LPG consumption is based on the average of the state residential shares for 2003–2008, with the remainder of the combined residential and commercial LPG consumption being assigned to the commercial sector.

The quantity of LPG sold each year for consumption in internal combustion engines is allocated between the transportation and industrial sectors on the basis of data for special fuels used on highways published by the U.S. Department of Transportation, Federal Highway Administration, in *Highway Statistics*. The allocations of LPG sold for internal combustion engine use to the transportation sector range from a low of 20 percent (in 2001) to a high of 80 percent (in 2008).

LPG consumed annually by the industrial sector is estimated as the difference between LPG total product supplied and the sum of the estimated LPG consumption by the residential, commercial, and transportation sectors. The industrial sector LPG consumption includes LPG used by chemical plants as raw materials or solvents and used in the production of synthetic rubber; refinery fuel use; use as synthetic natural gas feedstock and use in secondary recovery projects; all farm use; LPG sold to gas utility companies for distribution through the mains; and a portion of the use of LPG as an internal combustion engine fuel.

Sources of the annual sales data for creating annual energy shares are:

1973–1982: EIA's "Sales of Liquefied Petroleum Gases and Ethane" reports, based primarily on data collected by Form EIA-174, "Sales of Liquefied Petroleum Gases." 1983: End-use consumption estimates for 1983 are based on 1982 end-use consumption because the collection of data under Form EIA-174 was discontinued after data year 1982. 1984 forward: American Petroleum Institute (API), "Sales of Natural Gas Liquids and Liquefied Refinery Gases," which is based on an LPG sales survey jointly sponsored by API, the Gas Processors Association, and the National Liquefied Petroleum Gas Association. EIA adjusts the data to remove quantities of pentanes plus and to estimate withheld values.

Lubricants

The consumption of lubricants is allocated to the industrial and transportation sectors for all months according to proportions developed from annual sales of lubricants to the two sectors from U.S. Department of Commerce, Bureau of the Census, *Current Industrial Reports*, "Sales of Lubricating and Industrial Oils and Greases." The 1973 shares are applied to 1973 and 1974; the 1975 shares are applied to 1975 and 1976; and the 1977 shares are applied to 1977 forward.

Motor Gasoline

The total monthly consumption of motor gasoline is allocated to the sectors in proportion to aggregations of annual sales categories created on the basis of the U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics*, Tables MF-21, MF-24, and MF-25, as follows:

Commercial sales are the sum of sales for public non-highway use and miscellaneous and unclassified uses.

Industrial sales are the sum of sales for agriculture, construction, and industrial and commercial use as classified in the *Highway Statistics*.

Transportation sales are the sum of sales for highway use (minus the sales of special fuels, which are primarily diesel fuel and are accounted for in the transportation sector of distillate fuel) and sales for marine use.

Petroleum Coke

Portions of petroleum coke are consumed by the electric power sector (see sources for Table 7.4b) and the commercial sector (see sources for Table 7.4c). The remaining petroleum coke is assigned to the industrial sector.

Residual Fuel Oil

Residual fuel oil consumption is assigned to the sectors as follows:

Residual Fuel Oil, Electric Power Sector

See sources for Table 7.4b. For 1973–1979, electric utility consumption of residual fuel oil is assumed to be the amount of petroleum consumed in steam-electric power plants. For 1980–2000, electric utility consumption of residual fuel oil is assumed to be the amount of heavy oil (fuel oil nos. 4, 5, and 6) consumed.

Residual Fuel Oil, End-Use Sectors, Annual Data

The aggregate end-use amount is total residual fuel oil supplied minus the amount consumed by the electric power sector. The end-use total consumed annually is allocated to the individual end-use sectors (commercial, industrial, and transportation) in proportion to each sector's share of sales as reported in EIA's *Fuel Oil and Kerosene Sales* (*Sales*) report series (DOE/EIA-535), which is based primarily on data collected by Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report" (previously Form EIA-172). Shares for the current year are based on the most recent Sales report.

Following are notes on the individual sector groupings:

Beginning in 1979, commercial sales data are directly from the Sales reports. Through 1978, each year's sales subtotal of the heating plus industrial category is allocated to the commercial and industrial sectors in proportion to the 1979 shares.

Beginning in 1979, industrial sales data are the sum of sales for industrial, oil company, and all other uses. Through 1978, each year's sales subtotal of the heating plus industrial category is allocated to the commercial and industrial sectors in proportion to the 1979 shares, and the estimated industrial portion is added to oil company and all other uses.

Transportation sales are the sum of sales for railroad, vessel bunkering, and military uses for all years.

Residual Fuel Oil, End-Use Sectors, Monthly Data

Commercial sector monthly consumption is estimated by allocating the annual estimates, which are described above, into the months in proportion to each month's share of the year's sales of No. 2 heating oil. (For each month of the current year, the consumption increase from the same month in the previous year is based on the percent increase in that month's No. 2 heating oil sales from the same month in the previous year.) The years' No. 2 heating oil sales totals are from the following sources: for 1973–1980, the Ethyl Corporation, *Monthly Report of Heating Oil Sales*; for 1981 and 1982, the American Petroleum Institute, *Monthly Report of Heating Oil Sales*; and for 1983 forward, EIA, Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," No. 2 Fuel Oil Sales to End Users and for Resale.

A residual fuel oil "balance" is calculated as total residual fuel oil supplied minus the amount consumed by the electric power sector, commercial sector, and by industrial combined-heat-and-power plants (see sources for Table 7.4c).

Transportation sector monthly consumption is estimated by multiplying each month's residual fuel oil "balance" by the annual transportation consumption share of the annual residual fuel oil "balance."

Total industrial sector monthly consumption is estimated as total residual fuel oil supplied minus the amount consumed by the commercial, transportation, and electric power sectors.

Other Petroleum Products

Consumption of all remaining petroleum products is assigned to the industrial sector. Other petroleum products include pentanes plus, petrochemical feedstocks, special naphthas, still gas (refinery gas), waxes, and miscellaneous products. Beginning in 1981, also includes negative barrels per day of distillate and residual fuel oil reclassified as unfinished oils, and other products (from both primary and secondary supply) reclassified as gasoline blending components. Beginning in 1983, also includes crude oil burned as fuel. Beginning in 2005, also includes naphtha-type jet fuel.

Table 3.8a Sources

Distillate Fuel Oil

Residential and commercial sector consumption data in thousand barrels per day for distillate fuel oil are from Table 3.7a, and are converted to trillion Btu by multiplying by the distillate fuel oil heat content factors in Table A3.

Kerosene

Residential and commercial sector consumption data in thousand barrels per day for kerosene are from Table 3.7a, and are converted to trillion Btu by multiplying by the kerosene heat content factor in Table A1.

Liquefied Petroleum Gases (LPG)

Residential and commercial sector consumption data in thousand barrels per day for LPG are from Table 3.7a, and are converted to trillion Btu by multiplying by the propane/propylene heat content factor in Table A1.

Motor Gasoline

Commercial sector consumption data in thousand barrels per day for motor gasoline are from Table 3.7a, and are converted to trillion Btu by multiplying by the motor gasoline heat content factors in Table A3.

Petroleum Coke

1949–2003: Commercial sector consumption data in thousand barrels per day for petroleum coke are from Table 3.7a, and are converted to trillion Btu by multiplying by the total petroleum coke heat content factor in Table A1.

2004 forward: Commercial sector consumption data in thousand barrels per day for petroleum coke are from Table 3.7a, and are converted to trillion Btu by multiplying by the marketable petroleum coke heat content factor in Table A1.

Residual Fuel Oil

Commercial sector consumption data in thousand barrels per day for residual fuel oil are from Table 3.7a, and are converted to trillion Btu by multiplying by the residual fuel oil heat content factor in Table A1.

Total Petroleum

Residential sector total petroleum consumption is the sum of the data in trillion Btu for the petroleum products shown under "Residential Sector" in Table 3.8a. Commercial sector total petroleum consumption is the sum of the data in trillion Btu for the petroleum products shown under "Commercial Sector" in Table 3.8a.

Table 3.8b Sources

Asphalt and Road Oil

Industrial sector consumption data in thousand barrels per day for asphalt and road oil are from Table 3.7b, and are converted to trillion Btu by multiplying by the asphalt and road oil heat content factor in Table A1.

Distillate Fuel Oil

Industrial sector consumption data in thousand barrels per day for distillate fuel oil are from Table 3.7b, and are converted to trillion Btu by multiplying by the distillate fuel oil heat content factors in Table A3.

Kerosene

Industrial sector consumption data in thousand barrels per day for kerosene are from Table 3.7b, and are converted to trillion Btu by multiplying by the kerosene heat content factor in Table A1.

Liquefied Petroleum Gases (LPG)

Industrial sector consumption data for LPG are calculated by subtracting LPG consumption data in trillion Btu for the residential (Table 3.8a), commercial (Table 3.8a), and transportation (Table 3.8c) sectors from total LPG consumption (Table 3.6).

Lubricants

Industrial sector consumption data in thousand barrels per day for lubricants are from Table 3.7b, and are converted to trillion Btu by multiplying by the lubricants heat content factor in Table A1.

Motor Gasoline

Industrial sector consumption data in thousand barrels per day for motor gasoline are from Table 3.7b, and are converted to trillion Btu by multiplying by the motor gasoline heat content factors in Table A3.

Other Petroleum Products

Industrial sector "Other" petroleum data are equal to the "Other" petroleum data in Table 3.6.

Petroleum Coke

1949–2003: Industrial sector consumption data in thousand barrels per day for petroleum coke are from Table 3.7b, and are converted to trillion Btu by multiplying by the total petroleum coke heat content factor in Table A1.

2004 forward: Industrial sector consumption data for petroleum coke are calculated by subtracting petroleum coke consumption data in trillion Btu for the commercial (Table 3.8a) and electric power (Table 3.8c) sectors from total petroleum coke consumption (Table 3.6).

Residual Fuel Oil

Industrial sector consumption data in thousand barrels per day for residual fuel oil are from Table 3.7b, and are converted to trillion Btu by multiplying by the residual fuel oil heat content factor in Table A1.

Total Petroleum

Industrial sector total petroleum consumption is the sum of the data in trillion Btu for the petroleum products shown in Table 3.8b.

Table 3.8c Sources

Aviation Gasoline

Transportation sector consumption data in thousand barrels per day for aviation gasoline are from Table 3.7c, and are converted to trillion Btu by multiplying by the aviation gasoline (finished) heat content factor in Table A1.

Distillate Fuel Oil, Electric Power Sector

Electric power sector consumption data in thousand barrels per day for distillate fuel oil are from Table 3.7c, and are converted to trillion Btu by multiplying by the distillate fuel oil heat content factors in Table A3.

Distillate Fuel Oil, Transportation Sector

1949–2008: Transportation sector consumption data in thousand barrels per day for distillate fuel oil are from Table 3.7c, and are converted to trillion Btu by multiplying by the distillate fuel oil heat content factors in Table A3.

2009 forward: Data in thousand barrels per day for refinery and blender net inputs of renewable diesel fuel, from the U.S. Energy Information's (EIA) *Petroleum Supply Annual (PSA)* and *Petroleum Supply Monthly (PSM)*, are converted to trillion Btu by multiplying by the biodiesel heat content factor in Table A1. Transportation sector consumption data in thousand barrels per day for distillate fuel oil, from Table 3.7c, minus data in thousand barrels per day for refinery and blender net inputs of renewable diesel fuel, from the PSA/PSM, are converted to trillion Btu by multiplying by the distillate fuel oil heat content factors in Table A3. Total transportation sector distillate fuel oil consumption is the sum of the data in trillion Btu for renewable diesel fuel and distillate fuel oil (excluding renewable diesel fuel).

Jet Fuel

Transportation sector consumption data in thousand barrels per day for kerosene-type jet fuel and, through 2004, naphtha-type jet fuel (see sources for Table 3.7c) are converted to trillion Btu by multiplying by the appropriate heat content factors in Table A1. Total transportation sector jet fuel consumption is the sum of the data in trillion Btu for kerosene-type and naphtha-type jet fuel.

Liquefied Petroleum Gases (LPG)

Transportation sector consumption data in thousand barrels per day for LPG are from Table 3.7c, and are converted to trillion Btu by multiplying by the propane/propylene heat content factor in Table A1.

Lubricants

Transportation sector consumption data in thousand barrels per day for lubricants are from Table 3.7c, and are converted to trillion Btu by multiplying by the lubricants heat content factor in Table A1.

Motor Gasoline

Transportation sector consumption data in thousand barrels per day for motor gasoline are from Table 3.7c, and are converted to trillion Btu by multiplying by the motor gasoline heat content factors in Table A3.

Petroleum Coke

1949–2003: Electric power sector consumption data in thousand barrels per day for petroleum coke are from Table 3.7c, and are converted to trillion Btu by multiplying by the total petroleum coke heat content factor in Table A1. 2004 forward: Electric power sector consumption data in thousand barrels per day for petroleum coke are from Table 3.7c, and are converted to trillion Btu by multiplying by the marketable petroleum coke heat content factor in Table A1.

Residual Fuel Oil

Transportation and electric power consumption data in thousand barrels per day for residual fuel oil are from Table 3.7c, and are converted to trillion Btu by multiplying by the residual fuel oil heat content factor in Table A1.

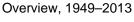
Total Petroleum

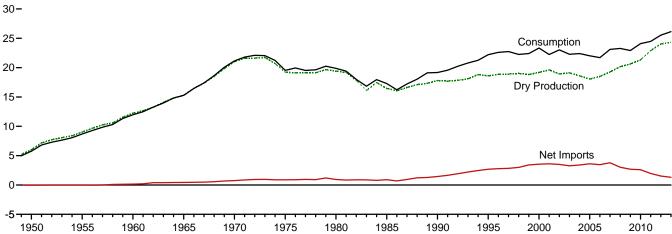
Transportation sector total petroleum consumption is the sum of the data in trillion Btu for the petroleum products shown under "Transportation Sector" in Table 3.8c. Electric power sector total petroleum consumption is the sum of the data in trillion Btu for the petroleum products shown under "Electric Power Sector" in Table 3.8c.

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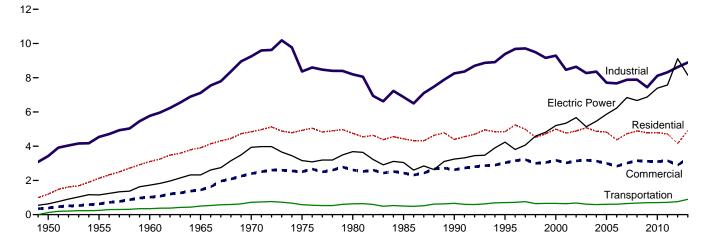
4. Natural Gas

Figure 4.1 Natural Gas (Trillion Cubic Feet)

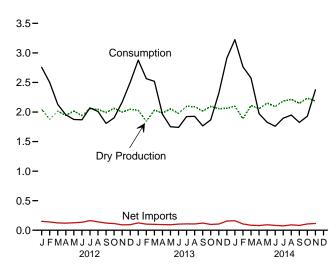




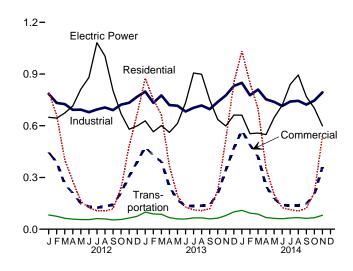
Consumption by Sector, 1949-2013



Overview, Monthly



Consumption by Sector, Monthly



Web Page: http://www.eia.gov/totalenergy/data/monthly/#naturalgas. Sources: Tables 4.1 and 4.3.

Table 4.1 Natural Gas Overview

(Billion Cubic Feet)

		, 			Supple-		Trade		Net		
	Gross With- drawals ^a	Marketed Production (Wet) ^b	NGPL Production ^c	Dry Gas Production ^d	mental Gaseous Fuels ^e	Imports	Exports	Net Imports	Storage With- drawals ^f	Balancing Item ^g	Consump- tion ^h
1950 Total 1955 Total 1955 Total 1960 Total 1965 Total 1975 Total 1977 Total 1975 Total 1985 Total 1985 Total 1995 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2007 Total 2007 Total 2007 Total 2008 Total 2008 Total 2009 Total 2008 Total 2009 Total 2009 Total 2009 Total 2009 Total	8,480 11,720 15,088 17,963 23,786 21,104 21,870 19,607 21,523 23,744 24,174 24,501 23,457 23,970 23,457 23,535 24,664 25,636 26,057 26,816 28,479	i 6,282 i 9,405 i 12,771 i 16,040 i 21,921 i 20,109 20,180 17,270 18,594 19,506 20,198 20,570 19,885 19,974 19,517 18,927 19,410 20,196 21,112 21,648 22,382 24,036	260 377 543 753 906 872 777 816 784 908 1,016 957 876 927 876 906 933 1,024 1,066 1,134	16,022 19,029 112,228 115,286 121,014 119,236 19,403 16,454 17,810 18,599 19,182 19,616 18,928 19,099 18,591 18,591 18,591 18,594 20,624 21,316 22,902	NA NA NA NA 155 123 110 90 86 68 60 64 66 63 65 65	0 11 156 456 821 953 985 950 1,532 2,841 3,782 3,977 4,015 3,944 4,259 4,341 4,186 4,608 3,984 3,751 3,741 3,741	26 31 11 26 70 73 49 55 86 154 244 373 516 680 854 729 724 963 1,072 1,137 1,506	-26 -20 144 430 751 880 936 894 1,447 2,687 3,538 3,604 3,404 3,499 3,264 3,462 3,462 3,785 3,021 2,679 2,6604 1,963	-54 -68 -132 -118 -398 -344 23 235 -513 415 829 -1,166 467 -197 -114 52 -436 192 34 -355 -355	-175 -247 -274 -319 -228 -235 -640 -428 -307 -396 -306 -99 -65 -44 -461 -236 -103 -203 -203 -203 -203 -103 -105 -94	5,767 8,694 11,967 15,280 21,139 19,538 19,877 21,7281 19,174 22,207 23,333 22,239 23,027 22,277 22,403 22,014 21,699 23,104 23,277 22,910 24,087 24,477
Page 2012 January	2,571 2,360 2,524 2,417 2,491 2,377 2,465 2,374 2,410 2,557 2,471 2,524 29,542	2,153 1,974 2,119 2,045 2,121 2,040 2,162 2,152 2,094 2,169 2,102 2,153 25,283	106 98 105 101 105 101 107 106 104 107 104 106 1,250	2,046 1,877 2,014 1,943 2,016 1,939 2,045 2,045 1,991 2,062 1,998 2,046 24,033	556555555555 61	281 270 265 243 259 260 281 281 258 253 253 234 252 3,138	130 130 141 123 133 125 118 139 137 140 142 159	151 140 124 120 126 135 163 142 121 113 92 94 1,519	553 467 -38 -141 -288 -236 -137 -169 -295 -246 129 392 -9	1 12 22 25 15 26 -16 -14 -15 -34 -56 -33 -66	2,756 2,501 2,128 1,953 1,874 1,868 2,070 2,009 1,807 1,901 2,168 2,504 25,538
2013 January	2,552 2,308 2,543 2,477 2,530 2,418 2,559 2,540 2,453 2,557 2,512 2,556 30,005	2,142 1,944 2,145 2,094 2,166 2,208 2,212 2,208 2,129 2,211 2,173 2,179 25,691	113 103 113 111 114 110 117 117 112 117 115 115 1,357	2,029 1,842 2,031 1,984 2,052 1,977 2,096 2,092 2,016 2,095 2,058 2,064 24,334	545454555555 55	278 237 248 221 234 237 236 244 220 219 273 2,883	154 133 149 126 142 134 129 130 122 122 112 114 117	124 104 100 95 92 103 108 106 121 98 105 156 1,311	732 613 387 -141 -426 -379 -281 -278 -361 -261 216 725 546	-11 2 -3 23 29 35 -5 2 -15 -69 -67 -34 -115	2,878 2,565 2,519 1,964 1,751 1,740 1,922 1,926 1,766 1,867 2,316 2,915 26,131
2014 January	RE 2,641 RE 2,370 RE 2,657 RE 2,657 RE 2,576 RE 2,668 RE 2,597 RE 2,649 RE 2,676 RE 2,668 RE 2,775 F 2,729 E 29,006	RE 2,216 RE 1,994 RE 2,237 RE 2,181 RE 2,280 RE 2,222 RE 2,352 RE 2,352 RE 2,372 E 2,372 E 2,319 E 24,775	118 108 125 126 129 130 136 137 134 139 132 1,413	RE 2,098 RE 1,886 RE 2,111 RE 2,055 RE 2,151 RE 2,092 RE 2,186 RE 2,215 RE 2,148 RE 2,233 E 2,186 E 23,361	5 6 4 5 5 5 5 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5	295 245 234 201 207 202 201 207 202 221 228 2,442	135 139 150 122 114 120 127 115 120 115 113 1,370	161 107 85 79 93 82 74 91 82 106 114 1,072	971 728 354 -217 -478 -462 -400 -374 -422 -400 161 -539	R -9 R 38 R 21 R 51 R 56 R 43 R 31 R 13 R 12 R -14 -91	R 3,225 R 2,764 R 2,575 R 1,972 R 1,827 R 1,759 R 1,896 R 1,948 R 1,824 R 1,929 2,375 24,096
2013 11-Month Total 2012 11-Month Total	27,449 27,019	23,512 23,131	1,242 1,144	22,270 21,987	50 56	2,610 2,886	1,455 1,460	1,155 1,425	-179 -400	-80 -34	23,216 23,035

producers may be counted in both "Other Industrial" and "Electric Power Sector" on Table 4.3. See Note 7, "Natural Gas Consumption, 1989–1992," at end of section.

R=Revised. E=Estimate. NA=Not available.

Notes: • See Note 8, "Natural Gas Data Adjustments, 1993–2000," at end of section.

• Through 1964, all volumes are shown on a pressure base of 14.65 psia (pounds per square inch absolute) at 60° Fahrenheit; beginning in 1965, the pressure base is 14.73 psia at 60° Fahrenheit. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia (except Alaska, for which underground storage is excluded from "Net Storage Withdrawals' through 2012).

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

and CSV flies) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Sources: • Imports and Exports: Table 4.2. • Consumption: Table 4.3.

• Balancing Item: Calculated as consumption minus dry gas production, supplemental gaseous fuels, net imports, and net storage withdrawals. • All Other Data: 1949–2011—U.S. Energy Information Administration (EIA), Natural Gas Annual, annual reports. 2012 forward—EIA, Natural Gas Monthly, January 2015, Table 1

a Gases withdrawn from natural gas, crude oil, coalbed, and shale gas wells. Includes natural gas, natural gas plant liquids, and nonhydrocarbon gases; but excludes lease condensate.

b Gross withdrawals minus repressuring, nonhydrocarbon gases removed, and vented and flared. See Note 1, "Natural Gas Production," at end of section.

c Natural gas plant liquids (NGPL) production, gaseous equivalent. This data series was previously called "Extraction Loss." See Note 2, "Natural Gas Plant Liquids Production," at end of section.

d Marketed production (wet) minus NGPL production.

e See Note 3, "Supplemental Gaseous Fuels," at end of section.

f Net withdrawals from underground storage. For 1980–2013, also includes net withdrawals of liquefied natural gas in above-ground tanks. See Note 4, "Natural Gas Storage," at end of section.

g See Note 5, "Natural Gas Balancing Item," at end of section. Beginning in 1980, excludes transit shipments that cross the U.S.-Canada border (i.e., natural gas delivered to its destination via the other country).

h See Note 6, "Natural Gas Consumption," at end of section.

i Through 1979, may include unknown quantities of nonhydrocarbon gases.
i For 1989–1992, a small amount of consumption at independent power

Table 4.2 Natural Gas Trade by Country

(Billion Cubic Feet)

		Imports										Exports		
	Algeria	Canada ^b	Egypta	Mexico ^b	Nigeria ^a	Qatar ^a	Trinidad and Tobago ^a	Other ^{a,c}	Total	Canada ^b	J apan ^a	Mexico ^b	Other ^{a,d}	Total
1950 Total 1955 Total 1960 Total 1960 Total 1965 Total 1975 Total 1975 Total 1980 Total 1985 Total 1985 Total 1990 Total 1990 Total 2001 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total	0 0 1 5 86 24 18 47 65 27 53 120 97 17 77 0 0	0 11 109 948 797 926 1,448 2,816 3,544 3,729 3,785 3,437 3,600 3,590 3,783 3,590 3,280 3,280 3,210 3,280 3,211	0 0 0 0 0 0 0 0 0 0 0 0 0 0 73 120 115 55 160 73 73	0 (s) 47 52 (s) 0 102 0 0 7 72 10 2 0 0 9 13 54 43 28 3 3 3	0 0 0 0 0 0 0 0 0 0 0 13 38 8 50 12 8 57 95 12 13 22 22	0 0 0 0 0 0 0 0 0 46 23 35 14 12 3 18 3 46 91	0 0 0 0 0 0 0 0 0 0 0 9 9 9 8 151 378 462 439 389 448 267 236 219 219 219 219 219 219 219 219 219 219	0 0 0 0 0 0 0 0 0 0 0 0 0 21 14 8 8 11 46 11 0 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	0 111 156 821 953 985 950 1,532 2,841 3,782 4,015 3,944 4,259 4,341 4,186 3,984 3,751 3,741 3,741 3,741	3 11 6 18 11 10 (s) (s) 17 28 73 167 189 271 395 358 341 482 559 701 739 937	0 0 0 44 453 453 553 656 666 625 611 47 39 31 33 18	23 20 6 8 15 9 4 2 16 61 106 141 263 343 397 305 322 292 365 338 349	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	26 31 11 26 70 73 49 55 86 154 373 516 680 854 729 724 963 1,072 1,137 1,506
Pebruary February March April May June July August September October November December Total	0 0 0 0 0 0 0	265 250 246 235 243 251 266 262 246 243 220 235 2,963	0 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	0 0 0 0 0 0 0 0 0	4 0 4 4 6 0 3 3 3 6 3 0 3 3	9 11 13 1 11 12 16 8 5 8 8 112	3 6 3 3 0 0 0 0 0 0 3 9 26	281 270 265 243 259 260 281 281 258 253 234 252 3,138	84 87 93 78 78 64 62 77 80 75 93 101	3 2 0 0 3 2 0 2 0 2 0 0 1 4	40 42 46 45 52 58 57 60 58 61 49 52 620	3 0 3 0 0 0 0 0 0 0 0 0 0 1 6 1 4	130 130 141 123 133 125 118 139 137 140 142 159 1,619
Pebruary February March April May June July August September October November December Total	0 0 0 0 0 0 0	265 225 240 215 229 229 228 227 227 215 216 270 2,786	0 0 0 0 0 0 0 0	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 4 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11 8 5 5 6 8 8 6 9 3 3 0 70	3 0 0 0 0 0 0 3 6 3 0 3 7	278 237 248 221 234 237 236 236 244 220 219 273 2,883	99 84 92 71 82 76 66 68 70 70 60 73	0 0 0 0 0 0 0 0	56 49 56 55 60 58 62 62 53 53 54 44 661	0 0 0 0 0 0 0 0	154 133 149 126 142 134 129 130 122 122 114 117 1,572
2014 January February March April May June July August September October November 11-Month Total	0 0 0 0 0 0 0 0 0	287 241 231 198 204 192 195 205 196 214 227 2,389	0 0 0 0 0 0 0 0	(s) (s) (s) (s) (s) (s) (s) (s) (s)	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	6 4 3 3 0 7 6 2 3 4 0 38	2 0 0 0 3 3 0 0 3 3 0 0 1 3	295 245 234 201 207 202 201 207 202 221 228 2,442	82 85 91 65 50 55 47 52 52 61 695	0 0 0 0 2 0 3 3 3 3 0 13	53 51 58 57 62 65 69 66 65 60 52 659	0 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	135 139 150 122 114 120 127 115 120 115 113 1,370
2013 11-Month Total 2012 11-Month Total		2,516 2,728	0 3	1 (s)	3 0	7 34	70 104	14 17	2,610 2,886	838 870	0 14	617 568	0 8	1,455 1,460

(s)=Less than 500 million cubic feet.

Notes: • See Note 9, "Natural Gas Imports and Exports," at end of section.

independent containing.

Of Columbia.

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

and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Sources: • 1949–1954: U.S. Energy Information Administration (EIA) estimates based on Bureau of Mines, Minerals Yearbook, "Natural Gas" chapter.

• 1955–1971: Federal Power Commission data. • 1972–1987: EIA, Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas."

• 1988–2011: EIA, Natural Gas Annual, annual reports. • 2012 forward: EIA, Natural Gas Monthly, January 2015, Tables 4 and 5; and U.S. Department of Energy, Office of Fossil Energy, "Natural Gas Imports and Exports."

^a As liquefied natural gas.
^b By pipeline, except for small amounts of: liquefied natural gas (LNG) imported from Canada in 1973, 1977, 1981, 2013 and 2014; LNG exported to Canada in 2007 and 2012 forward; compressed natural gas (CNG) imported from Canada in 2014; CNG exported to Canada in 2013 and 2014; and LNG exported to Mexico beginning in 1998. See Note 9, "Natural Gas Imports and Exports," at end of section.

beginning in 1998. See Note 9, Natural Cas imports and Experts, at Statestion.

c Australia in 1997–2001 and 2004; Brunei in 2002; Equatorial Guinea in 2007; Indonesia in 1986 and 2000; Malaysia in 1999 and 2002–2005; Norway in 2008 forward; Oman in 2000–2005; Peru in 2010 and 2011; United Arab Emirates in 1996–2000; Yemen in 2010 forward; and Other (unassigned) in 2004 and 2014.

d Brazil in 2010–2012 and 2014; Chile in 2011; China in 2011; India in 2010–2012; Portugal in 2012; Russia in 2007; South Korea in 2009–2011; Spain in 2010 and 2011; and United Kingdom in 2010 and 2011.

(s) elses than 500 million cubic feet.

[•] Through 1964, all volumes are shown on a pressure base of 14.65 psia (pounds per square inch absolute) at 60° Fahrenheit; beginning in 1965, the pressure base is 14.73 psia at 60° Fahrenheit. • Totals may not equal sum of components due to independent rounding. • U.S. geographic coverage is the 50 states and the District

Table 4.3 Natural Gas Consumption by Sector

(Billion Cubic Feet)

1950 Total	Residential 1,198 2,124 3,103 3,903 4,837 4,924 4,752 4,433 4,391 4,850 4,996 4,771	Com- mercial ^a 388 629 1,020 1,444 2,399 2,508 2,611 2,432 2,623	928 1,131 1,237 1,156 1,399 1,026	CHP ^b (h) (h) (h) (h)	Industrial Other Industria Non-CHP ^C 2,498 3,411 4,535 5,955	Total 2,498 3,411	Total 3,426 4,542	Pipelines ^d and Dis- tribution ^e	Vehicle Fuel	Total	Electric Power Sector ^{1,9}	Total
1955 Total 1960 Total 1965 Total 1970 Total 1975 Total 1980 Total 1985 Total	1,198 2,124 3,103 3,903 4,837 4,924 4,752 4,433 4,391 4,850 4,996	388 629 1,020 1,444 2,399 2,508 2,611 2,432 2,623	928 1,131 1,237 1,156 1,399 1,396 1,026	CHP ^b (h) (h) (h) (h)	Non-CHP ^C 2,498 3,411 4,535	Total 2,498 3,411	3,426	and Dis- tribution ^e	Fuel		Power Sector ^{f,g}	
1955 Total	1,198 2,124 3,103 3,903 4,837 4,924 4,752 4,433 4,391 4,850 4,996	388 629 1,020 1,444 2,399 2,508 2,611 2,432 2,623	928 1,131 1,237 1,156 1,399 1,396 1,026	(h) (h) (h) (h)	2,498 3,411 4,535	2,498 3,411	3,426	tribution ^e	Fuel		Sector ^{†,g}	
1955 Total 1960 Total 1965 Total 1970 Total 1975 Total 1980 Total 1985 Total	2,124 3,103 3,903 4,837 4,924 4,752 4,433 4,391 4,850 4,996	629 1,020 1,444 2,399 2,508 2,611 2,432 2,623	1,131 1,237 1,156 1,399 1,396 1,026	\h \ (h \ (h \ (h \	3,411 4,535	3,411	3,426 4 542	126	NA	126	620	_
1990 Total 1995 Total 2000 Total 2001 Total 2002 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2007 Total 2008 Total 2010 Total 2010 Total 2011 Total	4,889 5,079 4,869 4,827 4,368 4,722 4,892 4,779 4,782 4,714	3,031 3,182 3,023 3,144 3,179 3,129 2,999 2,832 3,013 3,153 3,119 3,103 3,155	966 1,236 1,220 1,151 1,119 1,113 1,122 1,098 1,112 1,226 1,220 1,220 1,286 1,323	h (h) (h) (h) (h) (h) (h) (h) (h) (h) (h	7,851 6,968 7,172 5,901 15,963 6,906 6,757 6,035 6,287 6,066 5,518 5,412 5,715 5,715 5,717 5,931	4,535 5,955 7,851 6,968 7,172 5,901 17,018 8,164 8,164 7,344 7,527 7,156 6,601 6,655 6,655 6,676 6,826 6,926	5,771 7,112 9,249 8,365 8,198 6,867 8,255 9,384 9,293 8,463 8,647 8,354 7,713 7,669 7,881 7,890 7,443 8,317	245 347 501 722 583 635 660 700 642 625 667 591 584 584 621 648 670 674 688	NA NA NA NA NA NA NA 15 15 18 24 24 26 27 29 30	245 347 501 722 583 635 504 660 705 640 682 610 587 607 608 646 674 697	1,153 1,7725 2,321 3,932 3,158 3,682 3,044 3,245 4,237 5,342 5,342 5,342 5,464 6,672 6,222 6,668 6,873 7,574	5,767 8,694 11,967 15,280 19,538 19,537 17,281 19,877 17,281 19,877 17,281 22,207 22,233 22,239 22,277 22,404 21,699 23,104 23,277 22,408 24,408 24,408 24,408 24,408 24,408
Policy January February March April May June July August September October November December Total	794 662 403 279 163 123 108 106 119 240 482 670 4,150	446 387 262 209 149 131 124 133 142 213 308 391 2,895	119 109 117 113 117 113 119 119 116 120 116 119 1,396	94 89 91 90 95 98 107 105 96 94 93 98 1,149	572 534 518 489 481 468 468 482 479 509 524 552 6,077	666 623 609 580 576 566 575 587 575 603 617 650 7,226	785 732 726 692 693 678 694 706 691 723 733 768 8,622	80 72 61 56 53 59 57 51 54 62 72	3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2	82 75 63 58 56 56 62 60 54 56 65 75 761	649 645 674 714 812 880 1,082 1,004 803 669 580 600 9,111	2,756 2,501 2,128 1,953 1,874 1,868 2,070 2,009 1,807 1,901 2,168 2,504 25,538
2013 January February March April March June July June July September October November December Total	876 752 664 368 194 128 112 108 118 223 519 851 4,914	477 426 391 248 168 136 137 141 206 343 471 3,279	123 112 123 120 124 120 127 127 127 122 127 125 125 1,475	102 91 98 90 93 93 97 98 91 93 97 105 1,147	574 530 555 510 499 470 480 492 483 518 555 601 6,267	675 621 653 600 592 563 577 591 574 611 651 706 7,414	798 733 776 720 716 683 704 717 696 738 776 831 8,889	96 86 84 64 57 57 63 63 57 61 77 97	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	99 88 87 67 60 59 66 66 60 64 79 100 895	629 565 601 561 613 734 906 898 749 636 598 662 8,153	2,878 2,565 2,519 1,964 1,751 1,740 1,922 1,926 1,766 1,867 2,915 26,131
2014 January	R 1,033 R 850 R 700 R 353 202 R 124 R 114 105 122 212 541 4,355 4,064 3,479	R 572 R 490 R 420 R 250 R 176 R 141 R 137 R 137 R 148 203 360 3,033 2,808 2,504	RE 127 RE 114 RE 128 RE 125 RE 131 RE 133 RE 135 RE 131 RE 136 E 133 E 1,422 1,350 1,277	101 88 96 88 86 88 92 94 89 1,000	621 R 574 R 585 R 541 521 R 499 515 516 503 R 523 569 5,967	R 722 663 R 682 628 R 607 587 607 610 592 R 610 6,968 6,708 6,577	R 849 R 777 R 810 R 754 R 738 R 715 R 740 R 745 R 723 R 746 8 794 8 390	RE 106 E 91 E 85 E 65 E 60 E 63 RE 64 E 60 E 64 E 794	E 3 E 3 E 3 E 3 E 3 E 3 E 3 E 3 E 3 E 3	E 109 E 94 E 88 E 63 E 61 RE 65 E 67 E 63 RE 66 E 81 E 825	662 554 557 549 647 719 840 895 769 702 599 7,492 7,491 8,511	R 3,225 R 2,764 R 2,575 R 1,972 R 1,827 R 1,759 R 1,896 R 1,948 R 1,929 2,375 24,096 23,216 23,035

^a All commercial sector fuel use, including that at commercial combined-heat-and-power (CHP) and commercial electricity-only plants. See Table 7.4c for CHP fuel use.
^b Industrial combined-heat-and-power (CHP) and a small number of industrial electricity-only plants.
^c All industrial sector fuel use other than that in "Lease and Plant Fuel" and

fuels. See Note 3, "Supplemental Gaseous Fuels," at end of section.

• See Note 8, "Natural Gas Data Adjustments, 1993–2000," at end of section.

• See Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7.

• Through 1964, all volumes are shown on a pressure base of 14.65 psia (pounds per square inch absolute) at 60° Fahrenheit; beginning in 1965, the pressure base is 14.73 psia at 60° Fahrenheit.

• 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/#naturalgas (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Sources: • Residential, Commercial, Lease and Plant Fuel, Other Industrial Total and Pipelines and Distribution: 1949–2011—U.S. Energy Information Administration (EIA), Natural Gas Annual (NGA), annual reports and unpublished revisions. 2012 forward—EIA, Natural Gas Monthly (NGM), January 2015, Table 2. • Industrial CHP: Table 7.4c. • Vehicle Fuel: 1990 and 1991—EIA, NGA 2000, (November 2001), Table 95. 1992–1998—EIA, "Alternatives to Traditional Transportation Fuels 1999" (October 1999), Table 10, and "Alternatives to Traditional Transportation Fuels 2003" (February 2004), Table 10. Data for compressed natural gas and liquefied natural gas in gasoline-equivalent gallons were converted to cubic feet by multiplying by the motor gasoline conversion factor (see Table A3) and dividing by the natural gas end-use sectors conversion factor (see Table A4). 1999–2011—EIA, NGA, annual reports. 2012 forward—EIA, NGM, January 2015, Table 2. • Electric Power Sector: Table 7.4b.

C All industrial sector fuel use other than that in "Lease and Plant Fuel" and "CHP."

Autural gas consumed in the operation of pipelines, primarily in compressors. Beginning in 2009, includes line loss, which is known volumes of natural gas that are the result of leaks, damage, accidents, migration, and/or blow down.

Natural gas used as fuel in the delivery of natural gas to consumers. Beginning in 2009, includes line loss, which is known volumes of natural gas that are the result of leaks, damage, accidents, migration, and/or blow down.

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.

Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities only. Beginning in 1989, data are for electric utilities only. Beginning in 1989, and are for electric utilities only. Beginning in 1989, data are for electric utilities only. Beginning in 1989, data are for electric utilities only. Beginning in 1989, data are for electric utilities only. Beginning in 1989, data are for electric utilities only. Beginning in 1989, data are for electric utilities only. Beginning in 1989, data are for electric utilities only. Beginning in 1989, data are for electric utilities only. Beginning in 1989, data are for electric utilities only. Beginning in 1989, data are for electric utilities only. Beginning in 1989, data are for electric utilities only. Beginning in 1989, data are for electric utilities only. Beginning in 1989, data are for electric utilities only. Beginning in 1989, data are for electric utilities only. Beginning in 1989, data are for electric utilities only. Beginning in 1989, data are for electric utilities only. Beginning in 1989, data are for electric utilities only. Beginning in 1989, data are for electric utilities only. Beginning in 1989, data are for electric utilities only. Beginning in 1989, data are for electric

Notes: • Data are for natural gas, plus a small amount of supplemental gaseous

Table 4.4 Natural Gas in Underground Storage

(Volumes in Billion Cubic Feet)

	U	Natural Gas in nderground Storag End of Period	e,	Change in W From San Previou	ne Period		Storage Activity	
	Base Gas	Working Gas	Totala	Volume	Percent	Withdrawals	Injections	Net ^{b,c}
1950 Total 1955 Total 1965 Total 1965 Total 1976 Total 1977 Total 1978 Total 1988 Total 1988 Total 1989 Total 1999 Total 1999 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2007 Total	NA 863 NA 1,848 2,326 3,162 3,642 3,842 3,868 4,349 4,352 4,301 4,303 4,201 4,200 4,211 4,232 4,277 4,301 4,232	NA 505 NA 1,242 1,678 2,212 2,655 2,607 3,068 2,153 1,719 2,904 2,375 2,563 2,696 2,635 3,070 2,879 2,840 3,130 3,111 3,462	NA 1,368 2,184 3,090 4,004 5,374 6,297 6,448 6,936 6,503 6,071 7,204 6,715 6,866 6,897 6,835 7,281 7,113 7,073 7,407 7,412	NA 40 NA 83 257 162 -99 -270 575 -453 -806 1,185 -528 187 133 -61 435 -191 -39 290 -19	NA 8.7 NA 7.2 18.1 7.9 -3.6 -9.4 22.1 -17.4 -31.9 68.9 -18.2 7.9 5.2 -2.3 16.5 -6.2 -1.4 10.2 -6.6	175 437 713 960 1,459 1,760 1,910 2,359 1,934 2,974 3,498 2,309 3,138 3,099 3,037 3,057 2,493 3,325 3,325 3,374 2,966 3,274 3,074	230 505 844 1,078 1,857 2,104 1,896 2,128 2,433 2,566 2,684 3,464 2,670 3,292 3,150 3,002 2,924 3,133 3,340 3,315 3,291 3,422	-54 -68 -132 -118 -398 -344 14 231 -499 408 814 -1,156 468 -193 -113 -55 -431 192 34 -349 -17
2012 January February March April May June July August September October November December Total	4,309 4,310 4,321 4,325 4,332 4,343 4,343 4,348 4,352 4,365 4,372 4,372 4,372	2,910 2,449 2,473 2,611 2,887 3,115 3,245 3,406 3,693 3,929 3,799 3,413 3,413	7,219 6,758 6,795 6,936 7,219 7,454 7,588 7,754 8,045 8,294 8,172 7,785	604 727 896 823 700 586 470 387 277 125 -44 -49	26.2 42.2 56.8 46.0 32.0 23.2 16.9 12.8 8.1 3.3 -1.1 -1.4	619 516 205 126 74 91 130 134 67 86 281 490 2,818	75 56 240 264 358 323 264 300 357 328 156 105 2,825	544 460 -35 -137 -284 -232 -134 -166 -290 -242 125 385 -7
2013 January February March April May June July August September October November December Total	4,377 4,384 4,382 4,381 4,385 4,365 4,365 4,363 4,364 4,366 4,365 4,365	2,699 2,099 1,720 1,855 2,270 2,643 2,937 3,212 3,565 3,817 3,605 2,890 2,890	7,077 6,483 6,102 6,236 6,655 7,027 7,302 7,574 7,928 8,181 7,971 7,255 7,255	-211 -349 -753 -756 -617 -473 -308 -194 -129 -112 -194 -523	-7.2 -14.3 -30.5 -29.0 -21.4 -15.2 -9.5 -5.7 -3.5 -2.9 -5.1 -15.3	793 648 483 135 49 69 99 102 66 84 366 808 3,702	72 44 103 272 468 441 373 374 421 340 155 94 3,156	721 604 380 -137 -419 -372 -275 -272 -355 -256 211 714 546
2014 January February March April May June July August September October November 11-Month Total	4,363 4,350 4,357 4,353 4,353 4,358 4,361 4,366 R 4,369 R 4,367 4,367	1,925 1,200 857 1,066 1,548 2,005 R 2,400 R 2,768 R 3,187 R 3,587 3,426	6,288 5,560 5,207 5,423 5,901 6,364 R 6,761 R 7,135 R 7,556 7,955 7,794	-774 -899 -863 -789 -722 -637 R-537 R-444 R-378 R-230 -179	-28.7 -42.8 -50.2 -42.5 -31.8 -24.1 R-18.3 -13.8 R-10.6 R-6.0 -5.0	1,039 833 488 105 51 44 63 73 47 52 361 3,157	68 104 134 323 529 506 463 447 469 452 200 3,695	971 728 354 -217 -478 -462 -400 -374 -422 -400 161 -539
2013 11-Month Total 2012 11-Month Total	==	==	==	==		2,894 2,328	3,062 2,720	-168 -392

beginning in 1973.

Sources: • Storage Activity: 1949–1975—U.S. Energy Information Administration (EIA), Natural Gas Annual 1994, Volume 2, Table 9. 1976–1979—EIA, Natural Gas Production and Consumption 1979, Table 1. 1980–1995—EIA, Historical Natural Gas Annual 1930 Through 2000, Table 11. 1996–2011—EIA, NGM, January 2015, Table 8. • All Other Data: 1954–1974—American Gas Association, Gas Facts, annual issues. 1975 and 1976—Federal Energy Administration (FEA), Form FEA-G318-M-0, "Underground Gas Storage Report," and Federal Power Commission (FPC), Form FPC-8, "Underground Gas Storage Report," and Federal Energy Regulatory Commission (FERC), Form FEC-8, "Underground Gas Storage Report," and Federal Energy Regulatory Commission (FERC), Form FEC-8, "Underground Gas Storage Report," and Federal Energy Regulatory Commission (FERC), Form FEC-8, "Underground Gas Storage Report," and FERC, Form FERC-8, "Underground EIA, NGM, January 2015, Table 8.

a For total underground storage capacity at the end of each calendar year, see Note 4, "Natural Gas Storage," at end of section.
b For 1980–2013, data differ from those shown on Table 4.1, which includes liquefied natural gas storage for that period.
c Positive numbers indicate that withdrawals are greater than injections. Negative numbers indicate that withdrawals are greater than withdrawals. Net withdrawals or injections may not equal the difference between applicable ending stocks. See Note 4, "Natural Gas Storage," at end of section.
R=Revised. − =Not applicable. NA=Not available.
Notes: • Through 1964, all volumes are shown on a pressure base of 14.65 psia (pounds per square inch absolute) at 60° Fahrenheit; beginning in 1965, the pressure base is 14.73 psia at 60° Fahrenheit. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia (except Alaska, which is excluded through 2012).
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#naturalgas (Excel and CSV files) for all available annual data beginning in 1949 and monthly data

Natural Gas

Note 1. Natural Gas Production. Final annual data are from the U.S. Energy Information Administration's (EIA) *Natural Gas Annual (NGA)*.

Data for the two most recent months presented are estimated. Some of the data for earlier months are also estimated or computed. For a discussion of computation and estimation procedures, see EIA's *Natural Gas Monthly (NGM)*.

Monthly data are considered preliminary until after publication of the NGA. Preliminary monthly data are gathered from reports to the Interstate Oil Compact Commission and the U.S. Minerals Management Service. Volumetric data are converted, as necessary, to a standard pressure base of 14.73 psia (pounds per square inch absolute) at 60° Fahrenheit. Unless there are major changes, data are not revised until after publication of the NGA.

Differences between annual data in the NGA and the sum of preliminary monthly data (January–December) are allocated proportionally to the months to create final monthly data.

Note 2. Natural Gas Plant Liquids Production. Natural gas plant liquids (NGPL) production is the reduction in volume of natural gas resulting from the removal of natural gas liquid constituents at natural gas processing plants—these natural gas plant liquids are transferred to petroleum supply.

Annual data are from EIA's *Natural Gas Annual (NGA)*, where they are estimated on the basis of the type and quantity of liquid products extracted from the gas stream and the calculated volume of such products at standard conditions. For a detailed explanation of the calculations used to derive estimated NGPL production, see the NGA.

Preliminary monthly data are estimated on the basis of NGPL production as an annual percentage of marketed production. This percentage is applied to each month's marketed production to estimate monthly NGPL production.

Monthly data are revised and considered final after publication of the NGA. Final monthly data are estimated by allocating annual NGPL production data to the months on the basis of total natural gas marketed production data from the NGA.

Note 3. Supplemental Gaseous Fuels. Supplemental gaseous fuels are any substances that, introduced into or commingled with natural gas, increase the volume available for disposition. Such substances include, but are not limited to, propane-air, refinery gas, coke oven gas, still gas, manufactured gas, biomass gas, and air or inert gases added for Btu stabilization.

Annual data beginning with 1980 are from EIA's *Natural Gas Annual (NGA)*. Unknown quantities of supplemental gaseous fuels are included in consumption data for 1979 and earlier years. Monthly data are considered preliminary until after publication of the NGA. Monthly estimates are based on the annual ratio of supplemental gaseous fuels to the sum of dry

gas production, net imports, and net withdrawals from storage. The ratio is applied to the monthly sum of the three elements to compute a monthly supplemental gaseous fuels figure.

Although the total amount of supplemental gaseous fuels consumed is known for 1980 forward, the amount consumed by each energy-use sector is estimated by EIA. These estimates are used to create natural gas (without supplemental gaseous fuels) data for Tables 1.3, 2.2, 2.3, 2.4, and 2.6 (note: to avoid double-counting in these tables, supplemental gaseous fuels are accounted for in their primary energy category: "Coal," "Petroleum," or "Biomass"). It is assumed that supplemental gaseous fuels are commingled with natural gas consumed by the residential, commercial, other industrial, and electric power sectors, but are not commingled with natural gas used for lease and plant fuel, pipelines and distribution, or vehicle fuel. The estimated consumption of supplemental gaseous fuels by each sector (residential, commercial, other industrial, and electric power) is calculated as that sector's natural gas consumption (see Table 4.3) divided by the sum of natural gas consumption by the residential, commercial, other industrial, and electric power sectors (see Table 4.3), and then multiplied by total supplemental gaseous fuels consumption (see Table 4.1). For estimated sectoral consumption of supplemental gaseous fuels in Btu, the residential, commercial, and other industrial values in cubic feet are multiplied by the "End-Use Sectors" conversion factors (see Table A4), and the electric power values in cubic feet are multiplied by the "Electric Power Sector" conversion factors (see Table A4). Total supplemental gaseous fuels consumption in Btu is calculated as the sum of the Btu values for the sectors.

Note 4. Natural Gas Storage. Natural gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals from the quantity in storage at the end of the previous period. Injection and withdrawal data from the FERC-8/EIA-191 survey may be adjusted to correspond to data from Form EIA-176 for publication of EIA's *Natural Gas Annual (NGA)*.

Total underground storage capacity, which includes both active and inactive fields, at the end of each calendar year since 1975 (first year data were available), in billion cubic feet, was:

1975 6,280	1989 8,120	2003	8,206
1976 6,544	1990 7,794	2004	8,255
1977 6,678	1991 7,993	2005	8,268
1978 6,890	1992 7,932	2006	8,330
1979 6,929	1993 7,989	2007	8,402
1980 7,434	1994 8,043	2008	8,499
1981 7,805	1995 7,953	2009	8,656
1982 7,915	1996 7,980	2010	8,764
1983 7,985	1997 8,332	2011	8,849
1984 8,043	1998 8,179	2012	8,991
1985 8,087	1999 8,229	2013	9,173
1986 8,145	2000 8,241		
1987 8,124	2001 8,182		
1988 8,124	2002 8,207		

Through 1990, monthly underground storage data are collected from the Federal Energy Regulatory Commission Form FERC-8 (interstate data) and EIA Form EIA-191 (intrastate data). Beginning in 1991, all data are collected on the revised Form EIA-191. Injection and withdrawal data from the EIA-191 survey may be adjusted to correspond to data from Form EIA-176 following publication of EIA's *Natural Gas Annual (NGA)*.

The final monthly and annual storage and withdrawal data for 1980–2013 include both underground and lique-fied natural gas (LNG) storage. Annual data on LNG additions and withdrawals are from Form EIA-176. Monthly data are estimated by computing the ratio of each month's underground storage additions and withdrawals to annual underground storage additions and withdrawals and applying the ratio to the annual LNG data.

Note 5. Natural Gas Balancing Item. The balancing item for natural gas represents the difference between the sum of the components of natural gas supply and the sum of components of natural gas disposition. The differences may be due to quantities lost or to the effects of data reporting problems. Reporting problems include differences due to the net result of conversions of flow data metered at varying temperature and pressure bases and converted to a standard temperature and pressure base; the effect of variations in company accounting and billing practices; differences between billing cycle and calendar period time frames; and imbalances resulting from the merger of data reporting systems that vary in scope, format, definitions, and type of respondents.

Note 6. Natural Gas Consumption. Natural gas consumption statistics include data for the following: "Residential Sector": residential deliveries; "Commercial Sector": commercial deliveries, including to commercial combined-heat-and-power (CHP) and commercial electricity-only plants; "Industrial Sector": lease and plant fuel use, and other industrial deliveries, including to industrial CHP and industrial electricity-only plants; "Transportation Sector": pipelines and distribution use, and vehicle fuel use; and "Electric Power Sector": electric utility and independent power producer use.

Final data for series other than "Other Industrial CHP" and "Electric Power Sector" are from EIA's NGA. Monthly data are considered preliminary until after publication of the NGA. For more detailed information on the methods of estimating preliminary and final monthly data, see EIA's *Natural Gas Monthly*.

Note 7. Natural Gas Consumption, 1989–1992. Prior to 1993, deliveries to nonutility generators were not separately collected from natural gas companies on Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition." As a result, for 1989–1992, those volumes are probably included in both the industrial and electric power sectors and double-counted in total

consumption. In 1993, 0.28 trillion cubic feet was reported as delivered to nonutility generators.

Note 8. Natural Gas Data Adjustments, 1993–2000. For 1993–2000, the original data for natural gas delivered to industrial consumers (now "Other Industrial" in Table 4.3) included deliveries to both industrial users and independent power producers (IPPs). These data were adjusted to remove the estimated consumption at IPPs from "Other Industrial" and include it with electric utilities under "Electric Power Sector." (To estimate the monthly IPP consumption, the monthly pattern for Other Industrial CHP in Table 4.3 was used.)

For 1996-2000, monthly data for several natural gas series shown in EIA's Natural Gas Navigator http://www.eia.gov/dnav/ng/ng_cons_sum_dcu_nus_m.htm) were not reconciled and updated to be consistent with the final annual data in EIA's Natural Gas Annual. In the Monthly Energy Review, monthly data for these series were adjusted so that the monthly data sum to the final annual values. The Table 4.1 data series (and years) that were adjusted are: Gross Withdrawals (1996, 1997), Marketed Production (1997), NGPL Production (1997, 1998, 2000), Dry Gas Production (1996, 1997), Supplemental Gaseous Fuels (1997–2000), Balancing Item (1997–2000), and Total Consumption (1997–2000). The Table 4.3 data series (and years) that were adjusted are: Lease and Plant Fuel (1997–2000), Total Industrial (1997–2000), Pipelines and Distribution (2000), Total Transportation (2000), and Total Consumption (1997–2000).

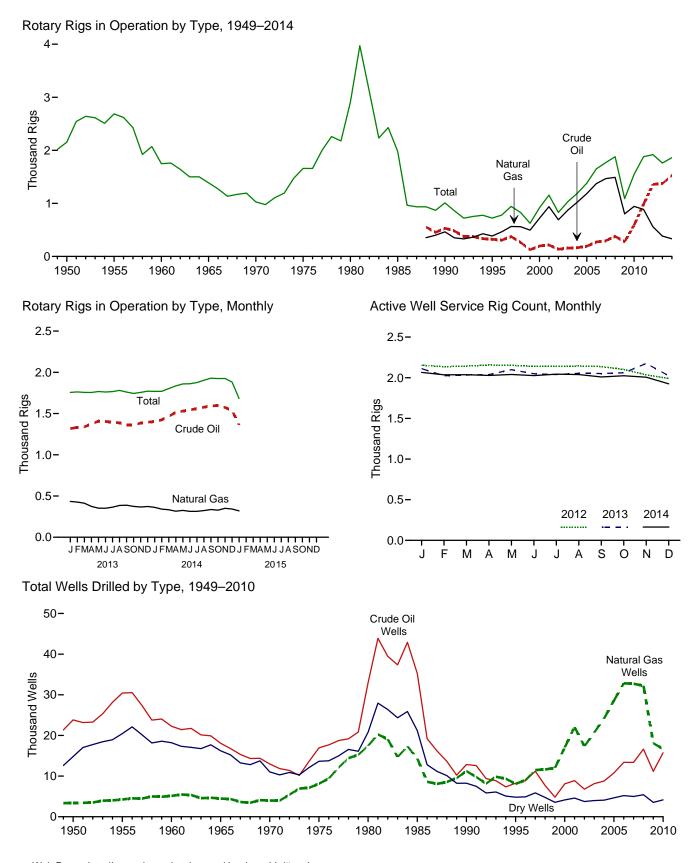
Note 9. Natural Gas Imports and Exports. The United States imports natural gas via pipeline from Canada and Mexico; and imports liquefied natural gas (LNG) via tanker from Algeria, Australia, Brunei, Egypt, Equatorial Guinea, Indonesia, Malaysia, Nigeria, Norway, Oman, Peru, Qatar, Trinidad and Tobago, the United Arab Emirates, and Yemen. In addition, very small amounts of LNG arrived from Canada in 1973 (667 million cubic feet), 1977 (572 million cubic feet), 1981 (6 million cubic feet), 2013 (555 million cubic feet), and 2014 (63 million cubic feet). Also, small amounts of compressed natural gas (CNG) were imported from Canada in 2014. The United States exports natural gas via pipeline to Canada and Mexico; and exports LNG via tanker to Brazil, Chile, China, India, Japan, Portugal, Russia, South Korea, Spain, and United Kingdom. Also, small amounts of LNG have gone to Mexico since 1998 and to Canada in 2007 and 2012-2014. Small amounts of CNG have been exported to Canada since 2013.

Annual and final monthly data are from the annual EIA Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas," which requires data to be reported by month for the calendar year.

Preliminary monthly data are EIA estimates. For a discussion of estimation procedures, see EIA's *Natural Gas Monthly*. Preliminary data are revised after publication of EIA's *U.S. Imports and Exports of Natural Gas*.

5. Crude Oil and Natural Gas Resource Development

Figure 5.1 Crude Oil and Natural Gas Resource Development Indicators



Web Page: http://www.eia.gov/totalenergy/data/monthly/#crude. Sources: Tables 5.1 and 5.2.

Table 5.1 Crude Oil and Natural Gas Drilling Activity Measurements

(Number of Rigs)

		Re	otary Rigs in Operatio	n ^a		
	Ву	Site	Ву	Туре		Active Well Service
	Onshore	Offshore	Crude Oil	Natural Gas	Total ^b	Rig Count ^c
1950 Average	NA	NA	NA	NA	2,154	NA
1955 Average	NA	NA	NA	NA	2,686	NA
1960 Average	NA	NA	NA	NA	1,748	NA
1965 Average	NA	NA	NA	NA NA	1,388	NA
1970 Average	NA	NA	NA NA	NA NA	1.028	NA NA
1975 Average	1,554	106	NA	NA NA	1,660	2.486
1000 Average	2,678	231	NA NA	NA NA	2,909	4.089
1980 Average	1,774	206	NA NA	NA NA	1.980	4,716
1985 Average		108	532			
1990 Average	902			464	1,010	3,658
1995 Average	622	101	323	385	723	3,041
2000 Average	778	140	197	720	918	2,692
2001 Average	1,003	153	217	939	1,156	2,267
2002 Average	717	113	137	691	830	1,830
2003 Average	924	108	157	872	1,032	1,967
2004 Average	1,095	97	165	1,025	1,192	2,064
2005 Average	1,287	94	194	1,184	1,381	2,222
2006 Average	1,559	90	274	1,372	1,649	2,364
2007 Average	1,695	72	297	1,466	1,768	2,388
2008 Average	1,814	65	379	1,491	1,879	2,515
2009 Average	1,046	44	278	801	1,089	1,722
2010 Average	1,514	31	591	943	1,546	1.854
2011 Average	1,846	32	984	887	1,879	2,075
2012 January	1.960	43	1.208	790	2.003	2.154
February	1,949	42	1.261	723	1,990	2.135
March	1.935	43	1.307	667	1,979	2.143
April	1.917	44	1.329	629	1,961	2.157
May	1,931	46	1.373	600	1,977	2.153
June	1.923	49	1.409	558	1.972	2.139
July	1.894	51	1.419	522	1.944	2.140
August	1.863	50	1.423	487	1.913	2,144
September	1,808	51	1,409	447	1,859	2,137
October	1,785	49	1,407	425	1,834	2,102
November	1,758	51	1,385	421	1,809	2,036
December	1,733	51	1,358	423	1,784	1,990
Average	1,871	48	1,357	558	1,919	2,113
2013 January	1,704	52	1,318	434	1,756	2,112
February	1,708	54	1,332	426	1,762	2,024
March	1,705	51	1,339	413	1,756	2,033
April	1,707	49	1,374	374	1,755	2,039
May	1,715	52	1,407	353	1,767	2,099
June	1,706	55	1,404	352	1,761	2.049
July	1,708	58	1,396	364	1,766	2,039
August	1,720	61	1,388	386	1,781	2,055
September	1.695	65	1,364	389	1,760	2,052
October	1,683	61	1,364	374	1,744	2,052
November	1,698	58	1,384	366	1,756	2,175
Docombor	1,710	61	1,396	373	1,771	2,173
December Average	1,705	56	1.373	383	1.761	2,024
Average	1,703	30	1,373	303	1,701	2,004
2014 January	1,711	58	1,403	362	1,769	2,066
February	1,714	55	1,424	341	1,769	2,036
March	1,750	54	1,466	333	1,803	2,037
April	1,784	52	1,515	316	1,835	2,028
May	1,801	58	1,530	325	1,859	2,040
June	1,804	58	1,545	314	1,861	2,026
July	1,819	57	1,560	314	1,876	2,044
August	1,842	62	1,578	324	1,904	2,039
September	1,866	64	1,592	336	1,930	2,010
October	1,867	58	1,596	328	1,924	2,024
November	1,872	53	1,573	351	1,925	2,007
December	1,824	59	1,539	342	1,882	R 1,925
Average	1,804	57	1,527	333	1,862	R 2,024
2015 January	1,629	53	1,362	320	1,683	NA

a Rotary rigs in operation are reported weekly. Monthly data are averages of 4-or 5-week reporting periods, not calendar months. Multi-month data are averages of the reported data over the covered months, not averages of the weekly data. Annual data are averages over 52 or 53 weeks, not calendar years. Published data are rounded to the nearest whole number.
b Sum of rigs drilling for crude oil, rigs drilling for natural gas, and other rigs (not

R=Revised. NA=Not available.

R=Revised. NA=Not available.

Note: Geographic coverage is the 50 states and the District of Columbia.

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

Sources: • Rotary Rigs in Operation: Baker Hughes, Inc., Houston, TX, "North America Rig Count," used with permission. See http://phx.corporate-ir.net/phoenix.zhtml?c=79687&p=irol-reportsother. • Active Well Service Rig Count: Cameron International Corporation, Houston, TX. See http://www.c-a-m.com/products-and-services/drilling/well-service-equipment-and-rig-count/tyoes/quiberson-rig-count. rig-count/types/guiberson-rig-count.

are rounded to the nearest whole number.

^b Sum of rigs drilling for crude oil, rigs drilling for natural gas, and other rigs (not shown) drilling for miscellaneous purposes, such as service wells, injection wells, and stratigraphic tests. "Total" values may not equal the sum of "Onshore" and "Offshore" due to independent rounding.

^c The number of rigs doing true workovers (where tubing is pulled from the well), or doing rod string and pump repair operations, and that are, on average, crewed and working every day of the month.

Table 5.2 Crude Oil and Natural Gas Exploratory and Development Wells

						Wells I	Drilled						
		Exploi	ratory			Develo	pment			То	tal		Total
	Crude Oil	Natural Gas	Dry	Total	Crude Oil	Natural Gas	Dry	Total	Crude Oil	Natural Gas	Dry	Total	Footage Drilled
						Num	ıber						Thousand Feet
1950 Total	1,583	431	8,292	10,306	22,229	3,008	6,507	31,744	23,812	3,439	14,799	42,050	157,358
1955 Total	2,236	874	11,832	14,942	28,196	3,392	8,620	40,208	30,432	4,266	20,452	55,150	226,182
1960 Total	1,321	868	9,515	11,704	20,937	4,281	8,697	33,915	22,258	5,149	18,212	45,619	192,176
1965 Total	946	515	8,005	9,466	17,119	3,967	8,221	29,307	18,065	4,482	16,226	38,773	174,882
1970 Total	757	477	6,162	7,396	12,211	3,534	4,869	20,614	12,968	4,011	11,031	28,010	138,556
1975 Total	982	1,248	7,129	9,359	15,966	6,879	6,517	29,362	16,948	8,127	13,646	38,721	180,494
1980 Total	1,777	2,099	9,081	12,957	31,182	15,362	11,704	58,248	32,959	17,461	20,785	71,205	316,943
1985 Total	1,680 778	1,200 811	8,954 3,652	11,834 5,241	33,581 12,061	13,124 10,435	12,257 4,593	58,962 27,089	35,261 12,839	14,324 11,246	21,211 8,245	70,796 32,330	314,409 156,044
1990 Total 1995 Total	570	558	2,024	3,152	7,678	7,524	2,790	17,992	8,248	8,082	6,245 4,814	21,144	117,156
2000 Total	288	657	1,341	2,286	7,802	16,394	2,805	27,001	8,090	17,051	4,146	29,287	144,425
2001 Total	357	1,052	1,733	3,142	8,531	21,020	2,865	32,416	8,888	22,072	4,598	35,558	180,141
2002 Total	258	844	1,282	2,384	6,517	16,498	2,472	25,487	6,775	17,342	3,754	27,871	145,159
2003 Total	350	997	1,297	2,644	7,779	19,725	2,685	30,189	8,129	20,722	3,982	32,833	177,239
2004 Total	383	1,671	1,350	3,404	8,406	22,515	2,732	33,653	8,789	24,186	4,082	37,057	204,279
2005 Total	539	2,141	1,462	4,142	10,240	26,449	3,191	39,880	10,779	28,590	4,653	44,022	240,307
2006 Total 2007 Total	646 808	2,456 2,794	1,547 1,582	4,649 5,184	12,739 12,563	30,382 29,925	3,659 3,399	46,780 45,887	13,385 13,371	32,838 32,719	5,206 4,981	51,429 51,071	282,675 301,515
		•		,			,	,		,			,
2008 January	88 82	208 230	144	440	1,111	2,321	272 247	3,704	1,199	2,529	416	4,144	25,306
February March	82 66	230 216	107 127	419 409	1,080 1,132	2,261 2,363	247 271	3,588 3,766	1,162 1,198	2,491 2,579	354 398	4,007 4,175	24,958 26,226
April	68	189	130	387	1,177	2,303	281	3,873	1,196	2,604	411	4,173	26,220
May	88	206	124	418	1,317	2,419	240	4,006	1,405	2,655	364	4,424	27,947
June	63	195	139	397	1,428	2,540	299	4,267	1,491	2,735	438	4,664	28,739
July	79	163	171	413	1,439	2,695	344	4,478	1,518	2,858	515	4,891	29,140
August	67	165	144	376	1,448	2,735	379	4,562	1,515	2,900	523	4,938	28,942
September	52	166	164	382	1,488	2,667	355	4,510	1,540	2,833	519	4,892	28,960
October	80	243	173	496	1,549	2,841	373	4,763	1,629	3,084	546	5,259	31,505
November	97	192	160	449	1,361	2,418	334	4,113	1,458	2,610	494	4,562	29,276
December	67	172	132	371	1,206	2,196	313	3,715	1,273	2,368	445	4,086	26,222
Total	897	2,345	1,715	4,957	15,736	29,901	3,708	49,345	16,633	32,246	5,423	54,302	334,141
2009 January February	80 62	171 125	99 88	350 275	1,192 991	2,253 1,925	250 195	3,695 3,111	1,272 1,053	2,424 2,050	349 283	4,045 3,386	28,077 25,440
March	59	146	88	293	867	1,771	210	2,848	926	1,917	298	3,141	25,304
April	36	68	93	197	755	1,396	205	2,356	791	1,464	298	2,553	21,406
May	47	90	80	217	584	1,136	156	1,876	631	1,226	236	2,093	20.055
June	44	91	75	210	804	1,297	189	2,290	848	1,388	264	2,500	16,301
July	40	100	101	241	789	1,188	217	2,194	829	1,288	318	2,435	13,543
August	49	84	88	221	867	1,372	207	2,446	916	1,456	295	2,667	15,970
September	61	71 79	96	228 212	945	1,170	207	2,322	1,006	1,241	303	2,550	15,547
October	55 38	79 83	78 85	206	966 931	1,167	222 199	2,355	1,021 969	1,246	300 284	2,567 2,469	17,261
November December	38 34	98	85 84	206	894	1,133 1,074	213	2,263 2,181	969	1,216 1,172	284 297	2,469	16,236 16,424
Total	605	1,206	1,055	2,866	10,585	16,882	2,470	29,937	11,190	18,088	3,525	32,803	231,562
2010 January	55	91	81	227	898	1.264	169	2.331	953	1.355	250	2.558	15.304
February	44	71	67	182	871	1,096	144	2,111	915	1,167	211	2,293	16,862
March	59	85	88	232	1,062	1,224	216	2,502	1,121	1,309	304	2,734	15,102
April	49	78	77	204	1,173	1,152	249	2,574	1,222	1,230	326	2,778	17,904
May	48	107	86	241	1,282	1,208	255	2,745	1,330	1,315	341	2,986	17,987
June	61	100	90	251	1,385	1,250	302	2,937	1,446	1,350	392	3,188	19,408
July	46	103	105	254	1,386	1,443	390	3,219	1,432	1,546	495	3,473	20,847
August	56	104	94	254	1,434	1,402	314	3,150	1,490	1,506	408	3,404	22,923
September October	57 75	73 87	88 117	218 279	1,374 1.502	1,358 1.463	268 283	3,000 3,248	1,431 1.577	1,431 1.550	356 400	3,218 3.527	23,037 22,123
November	62	114	103	279 279	1,502	1,463	263 263	3,246	1,577	1,330	366	3,527	24,561
December	57	92	70	219	1,317	1,332	243	2,939	1,402	1,471	313	3,158	23,189
Total	669	1.105	1.066	2.840	15,084	15,591	3.096	33.771	15.753	16,696	4.162	36,611	239.247
	000	.,	.,000	_,0-0	. 5,554	. 5,55	2,000	55,111	. 5,1 55	. 5,555	.,	55,511	

Notes: • Data are estimates. • For 1960–1969, data are for well completion reports received by the American Petroleum Institute during the reporting year; for all other years, data are for well completions in a given year. • Through 1989, these well counts include only the original drilling of a hole intended to discover or further develop already discovered crude oil or natural gas resources. Other drilling activities, such as drilling an old well deeper, drilling of laterals from the original well, drilling of service and injection wells, and drilling for resources other than crude oil or natural gas are excluded. Beginning in 1990, a new well is defined as the first hole in the ground whether it is lateral or not. Due to the methodology used to estimate ultimate well counts from the available partially reported data, the counts shown on this page are frequently revised. See Note, "Crude Oil and

Natural Gas Exploratory and Development Wells," at end of section. \bullet Geographic coverage is the 50 states and the District of Columbia.

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

beginning in 1973.
Sources:

1949–1965: Gulf Publishing Company, World Oil,
"Forecast-Review" issue.

1966–1969: American Petroleum Institute (API),
Quarterly Review of Drilling Statistics for the United States, annual summaries and
monthly reports.

1970–1989: U.S. Energy Information Administration (EIA)
computations based on well reports submitted to the API.

1990 forward: EIA

Data for 2011 forward in this table have been removed while EIA evaluates the quality of the data and the estimation methodology.

Crude Oil and Natural Gas Resource Development

Note. Crude Oil and Natural Gas Exploratory and Development Wells. Three well types are considered in the *Monthly Energy Review* (*MER*) drilling statistics: "completed for crude oil," "completed for natural gas," and "dry hole." Wells that productively encounter both crude oil and natural gas are categorized as "completed for crude oil." Both development wells and exploratory wells (new field wildcats, new pool tests, and extension tests) are included in the statistics. All other classes of wells drilled in connection with the search for producible hydrocarbons are excluded. If a lateral is drilled at the same time as the original hole it is not counted separately, but its footage is included.

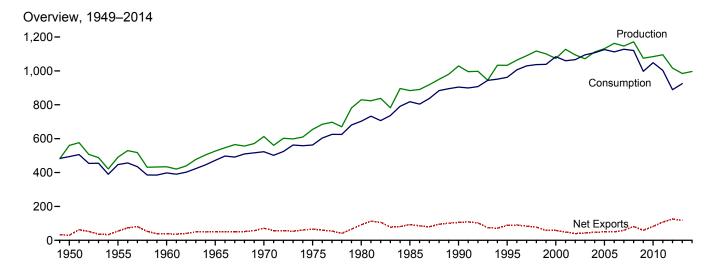
Prior to the March 1985 MER, drilling statistics consisted of

completion data for the above types and classes of wells as reported to the American Petroleum Institute (API) during a given month. Due to time lags between the date of well completion and the date of completion reporting to the API, as-reported well completions proved to be an inaccurate indicator of drilling activity. During 1982, for example, as-reported well completions rose, while the number of actual completions fell. Consequently, the drilling statistics published since the March 1985 MER are U.S. Energy Information Administration (EIA) estimates produced by statistically imputing well counts and footage based on the partial data available from the API. These estimates are subject to continuous revision as new data, some of which pertain to earlier months and years, become available. Additional information about the EIA estimation methodology may be found in "Estimating Well Completions," a feature article published in the March 1985 MER.

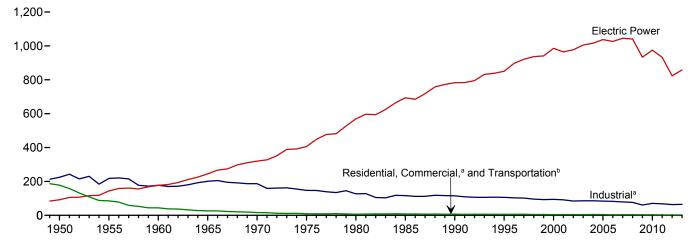
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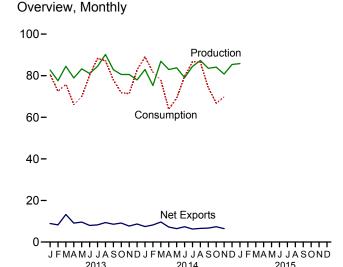
6. Coal

Figure 6.1 Coal (Million Short Tons)



Consumption by Sector, 1949-2013

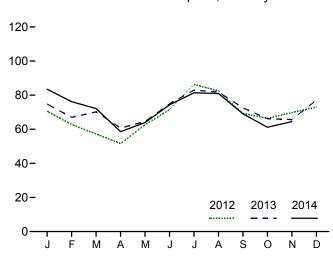




^aIncludes combined-heat-and-power (CHP) plants and a small number of electricity-only-plants.

^bFor 1978 forward, small amounts of transportation sector use are included in "Industrial."

Electric Power Sector Consumption, Monthly



Web Page: http://www.eia.gov/totalenergy/data/monthly/#coal. Sources: Tables 6.1–6.2.

Table 6.1 Coal Overview

(Thousand Short Tons)

		Waste		Trade			Losses and	
	Production ^a	Coal Supplied ^b	Imports	Exports	Net Imports ^c	Stock Change ^{d,e}	Unaccounted for ^{e,f}	Consumption
								·
1950 Total	560,388	NA	365	29,360	-28,995	27,829	9,462	494,102
1955 Total	490,838	NA	337	54,429	-54,092	-3,974	-6,292	447,012
1960 Total	434,329	NA	262	37,981	-37,719	-3,194	1,722	398,081
1965 Total	526,954	NA	184	51,032	-50,848	1,897	2,244	471,965
1970 Total	612,661	NA	36	71,733	-71,697	11,100	6,633	523,231
1975 Total	654,641	NA	940	66,309	-65,369	32,154	-5,522	562,640
1980 Total	829,700	NA	1,194	91,742	-90,548	25,595	10,827	702,730
1985 Total	883,638 1,029,076	NA 3,339	1,952 2,699	92,680 105,804	-90,727 -103,104	-27,934 26,542	2,796 -1,730	818,049 904,498
1990 Total 1995 Total	1,029,076	3,339 8,561	2,699 9,473	88,547	-79,074	20,542 -275	-1,730 632	962,104
2000 Total	1,073,612	9,089	12,513	58,489	-79,074 -45,976	-48,309	938	1,084,095
2001 Total	1,127,689	10,085	19,787	48,666	-28,879	41,630	7,120	1,060,146
2002 Total	1,094,283	9.052	16,875	39,601	-22,726	10.215	4,040	1,066,355
2003 Total	1,071,753	10,016	25,044	43,014	-17,970	-26,659	-4,403	1,094,861
2004 Total	1.112.099	11.299	27,280	47.998	-20,718	-11.462	6.887	1.107.255
2005 Total	1,131,498	13,352	30,460	49.942	-19,482	-9.702	9.092	1,125,978
2006 Total	1,162,750	14,409	36,246	49.647	-13,401	42,642	8.824	1,112,292
2007 Total	1,146,635	14,076	36,347	59,163	-22,816	5,812	4,085	1,127,998
2008 Total	1,171,809	14,146	34,208	81,519	-47,311	12,354	5,740	1,120,548
2009 Total	1,074,923	13,666	22,639	59,097	-36,458	39,668	14,985	997,478
2010 Total	1,084,368	13,651	19,353	81,716	-62,363	-13,039	182	1,048,514
2011 Total	1,095,628	13,209	13,088	107,259	-94,171	211	11,506	1,002,948
2012 January	95,102	1,104	789	9,126	-8,337	3,832	7,745	76,292
February	85,914	926	534	8,460	-7,927	7,905	2,542	68,466
March	85,849	863	699	11,055	-10,356	9,618	3,663	63,075
April	77,514	681	623	12,529	-11,905	7,132	2,260	56,899
May	81,717	892	986	12,257	-11,271	419	2,905	68,015
June	81,816	926	719	12,749	-12,030	-5,461	-469	76,642
July	86,321	1,058	894	11,623	-10,729	-15,082	145	91,588
August	90,816	1,039 885	667 855	10,597 9,344	-9,930 -8,489	-6,905	912	87,919
September	81,818 85,239	796	868	9,421	-8,554	2,352 3.999	-2,615 1,709	74,477 71.774
October November	84.147	1.090	798	8.516	-6,33 4 -7.718	1,639	562	75,319
December	80.205	934	727	10.068	-9.341	-2.545	-4.377	78,721
Total	1,016,458	11,196	9,159	125,746	-116,586	6,902	14,980	889,185
2013 January	82,713	933	654	9,572	-8,917	R -5,911	R 92	R 80,548
February	77,586	869	385	8,627	-8,242	R -2,963	^R 665	R 72,511
March	84,568	1,063	390	13,637	-13,247	R ₋ 3,349	R -181	R 75,913
April	78,909	676	672	9,754	-9,082	R 1,806	R 2,594	R 66,103
May	83,271	940	870	10,478	-9,608	R 4,687	R -70	R 69,987
June	81,031	934	1,213	9,194	-7,981	R -5,466	R -862	R 80,313
July	84,518	1,040	874	9,125	-8,251	R ₋ 11,863	R 851	R 88,318
August	90,199	840	710	10,073	-9,363	R -6,283	R 752	R 87,206
September	82,878	608	815	9,391	-8,576	R -2,799	R -186	R 77,894
October	80,603	626	707 850	9,855	-9,148	^R 895 ^R 2.130	^R -697 ^R 37	R 71,884 R 71,365
November	80,576 77.990	618 1.047	766	8,511 9.443	-7,662 -8.676	R -9,314	R -3,113	R 82,788
December Total	984,842	10,194	8, 906	117,659	-108, 753	R -38,430	R-118	R 924,831
2014 January	82,964	1,116	1,064	8,516	-7,452	R -16,220	R 3,804	R 89,043
February	75,294	999	583	8,785	-8,203	R -13,384	R -234	R 81,707
March	86,929	1,089	803	10,430	-9,627	R -913	R 1,457	R 77,846
April	82,976	934	930	8,134	-7,205	R 11.003	R 1.801	^R 63,901
May	83,788	852	1,280	7,718	-6,439	R 7,526	R 1,427	^R 69,248
June	79,063	1,003	1,319	8,704	-7,385	^R -3,929	R -3,110	R 79,721
July	84,429	<u>F</u> 865	928	7,191	-6,264	R -7,536	R -129	R 86,696
August	87,327	F 865	1,122	7,665	-6,544	R -5,687	R 939	R 86,397
September	83,563	£ 865	1,148	7,848	-6,700	R 2,768	R 670	R 74,290
October	84,145	F 865	584	7,939	-7,355	R 12,092	R -1,210	R 66,773
November	80,774	RF 865	1,003	7,464	-6,461	^R 6,081	R -632	R 69,730
December	85,414	NA	NA	NA	NA	NA	NA	NA
Total	996,666	NA	NA	NA	NA	NA	NA	NA
2015 January	85,824	NA	NA	NA	NA	NA	NA	NA

quantities lost or to data reporting problems.
R=Revised. NA=Not available. F=Forecast.
Notes: • For methodology used to calculate production, consumption, and stocks, see Note 1, "Coal Production," Note 2, "Coal Consumption," and Note 3, "Coal Stocks," at end of section. • Data values preceded by "F" are derived from the U.S. Energy Information Administration's Short-Term Integrated Forecasting System. See Note 4, "Coal Forecast Values," 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/#coal (Excel and

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

^a Beginning in 2001, includes a small amount of refuse recovery (coal recaptured from a refuse mine and cleaned to reduce the concentration of noncombustible materials).

^b Waste coal (including fine coal, coal obtained from a refuse bank or slurry dam, anthracite culm, bituminous gob, and lignite waste) consumed by the electric power and industrial sectors. Beginning in 1989, waste coal supplied is counted as a supply-side item to balance the same amount of waste coal included in "Consumption."

^c Net imports equal imports minus exports. A minus sign indicates exports are greater than imports.

greater than imports.

d A negative value indicates a decrease in stocks and a positive value indicates

an increase. See Table 6.3 for stocks data coverage.

e In 1949, stock change is included in "Losses and Unaccounted for."

f The difference between calculated coal supply and disposition, due to coal

Table 6.2 Coal Consumption by Sector

(Thousand Short Tons)

	End-Use Sectors											
		Commercial			Industrial							
	Resi- dential				Coke Plants	Other Industrial			Trans-	Electric Power		
		CHPa	Otherb	Total		CHPc	Non-CHP ^d	Total	Total	portation	Sector ^{e,f}	Total
1950 Total 1955 Total 1955 Total 1960 Total 1965 Total 1975 Total 1977 Total 1980 Total 1985 Total 1995 Total 1995 Total 2000 Total 2001 Total 2002 Total 2003 Total 2005 Total 2006 Total 2007 Total 2008 Total 2008 Total	51,562 35,590 24,159 14,635 9,024 2,823 1,355 1,711 1,345 755 454 481 531 551 512 378 290 353 (i)	(9) (9) (9) (9) (9) (9) (1,191 1,419 1,405 1,816 1,917 1,917 1,917 1,921 1,722 1,886 1,720 1,798 1,720 1,668	63,021 32,852 16,789 11,041 7,090 6,058 5,097 6,068 4,189 3,633 2,126 2,441 2,506 1,869 2,693 2,420 1,050 1,485 1,412 1,361 1,361 1,361	63,021 32,852 16,789 11,041 7,090 6,587 5,097 6,068 5,379 5,052 3,673 3,888 3,912 3,685 4,610 4,342 2,936 3,173 3,506 3,210 3,081 2,793	104,014 107,743 81,385 95,286 96,481 83,598 66,657 41,056 38,877 33,011 28,939 26,075 23,656 24,248 23,670 23,434 22,957 22,715 22,070 15,326 21,092 21,434	(h) (h) (h) (h) (h) (h) (h) (h) (h) (h)	120,623 110,096 96,017 105,560 90,156 63,646 60,347 75,372 48,549 43,693 37,177 39,514 34,515 36,415 35,582 34,465 34,210 34,078 32,491 24,650 23,919	120,623 110,096 96,017 105,560 90,156 63,646 60,347 75,372 76,330 73,055 65,268 60,747 61,261 62,195 60,340 59,472 59,472 54,393 45,314 49,289 46,238	224,637 217,839 177,402 200,846 186,637 147,244 127,004 116,429 115,207 106,067 94,147 91,344 84,403 85,509 85,865 83,774 82,429 79,331 76,463 60,641 70,381 67,671	63,011 16,972 3,046 655 298 24 (h) (h) (h) (h) (h) (h) (h) (h) (h) (h)	91,871 143,759 176,685 244,788 320,182 405,962 569,274 693,841 782,567 850,230 985,821 964,433 977,507 1,005,116 1,016,268 1,037,485 1,026,636 1,045,141 1,040,580 933,627 975,052 932,484	494,102 447,012 398,081 471,965 523,231 562,640 702,730 818,049 904,498 962,104 1,084,095 1,060,146 1,066,355 1,094,861 1,107,255 1,125,978 1,112,292 1,127,998 1,120,548 997,478 1,048,514 1,048,514 1,048,514 1,048,514
2012 January	(i) (i) (i) (i) (i) (i) (i) (i) (i) (i)	155 135 128 102 108 109 120 120 107 101 124 141 1,450	100 87 82 30 32 16 16 14 51 62 71 595	256 222 210 132 141 141 136 136 121 152 186 212 2,045	1,701 1,687 1,895 1,783 1,857 1,657 1,676 1,816 1,552 1,647 1,715 1,766 20,751	2,015 1,832 1,684 1,481 1,563 1,553 1,712 1,703 1,535 1,587 1,649 1,751 20,065	1,726 1,921 2,020 1,910 1,807 1,811 1,781 1,780 2,045 2,030 1,982 22,773	3,741 3,753 3,704 3,391 3,370 3,365 3,493 3,495 3,632 3,679 3,734 42,838	5,442 5,440 5,599 5,173 5,226 5,021 5,169 5,299 5,047 5,279 5,393 5,500 63,589	(h) (h) (h) (h) (h) (h) (h) (h) (h) (h)	70,594 62,804 57,266 51,593 62,648 71,480 86,283 82,484 69,309 66,343 69,740 73,009 823,551	76,292 68,466 63,075 56,899 68,015 76,642 91,588 87,919 74,477 71,774 75,319 78,721 889,185
2013 January February March April May June July August September October November December Total	(i) (i) (i) (i) (i) (i) (i) (i) (i) (i)	148 139 136 108 114 105 103 105 100 98 120 134 1,412	89 84 82 23 24 22 16 16 15 57 64 539	237 223 219 132 138 128 119 121 115 145 177 198 1,951	1,825 1,644 1,810 1,817 1,868 1,787 1,756 1,836 1,836 1,836 1,807 1,737 1,750 21,474	1,728 1,601 1,716 1,533 1,577 1,576 1,656 1,594 1,545 1,647 1,679 1,760	R 1,960 R 2,098 R 1,955 R 1,896 R 1,860 R 1,860 R 1,867 R 1,904 R 2,121 R 2,025 R 2,036 R 23,442	R 3,688 R 3,699 R 3,670 R 3,430 R 3,437 R 3,434 R 3,450 R 3,768 R 3,764 R 3,797 R 43,055	R 5,513 R 5,344 R 5,481 R 5,246 R 5,305 R 5,221 R 5,297 R 5,286 R 5,575 R 5,5501 R 5,5547 R 64,529	(h) (h) (h) (h) (h) (h) (h) (h) (h) (h)	74,798 66,944 70,214 60,725 64,544 74,964 82,986 81,788 72,493 66,163 65,688 77,043 858,351	R 80,548 R 72,511 R 75,913 R 66,103 R 69,987 R 80,313 R 88,318 R 87,206 R 77,894 R 71,365 R 82,788 R 924,831
2014 January	(i) (i) (i) (i) (i) (i) (i) (i) (i) (i)	149 147 142 111 94 90 100 92 92 89 115 1,223	99 98 94 29 25 24 RF 27 RF 43 RF 50 RF 91 F 104 E 683	247 245 236 140 118 114 RF 128 RF 135 RF 143 RF 180 F 219 E 1,906	1,605 1,543 1,648 1,730 1,758 RF 1,684 RF 1,852 RF 1,658 RF 2,044 F 1,567 E 18,776	1,803 1,644 1,759 1,520 1,553 1,530 1,597 1,534 1,492 1,493	R 1,929 R 2,131 R 2,037 R 2,001 R 1,949 R 1,977 RF 1,912 RF 1,863 RF 1,922 RF 1,895 F 1,972 E 21,588	R 3,732 R 3,775 R 3,796 R 3,521 R 3,506 RF 3,506 RF 3,460 RF 3,456 RF 3,456 RF 3,456 RF 3,465 E 39,108	R 5,337 R 5,318 R 5,484 R 5,169 R 5,233 R 5,264 RF 5,190 RF 5,311 RF 5,114 RF 5,431 F 5,033 E 57,884	(h) (h) (h) (h) (h) (h) (h) (h) (h) (h)	83,459 76,144 72,127 58,592 63,896 74,343 81,379 80,951 69,034 61,163 64,478 785,564	R 89,043 R 81,707 R 77,846 G 63,901 R 69,248 R 79,721 R 86,696 R 86,397 R 74,290 G 66,773 69,730
2013 11-Month Total 2012 11-Month Total	{ i }	1,278 1,309	475 524	1,753 1,833	19,724 18,985	17,853 18,314	21,405 20,790	39,258 39,104	58,982 58,089	{h }	781,308 750,542	842,043 810,464

a Commercial combined-heat-and-power (CHP) and a small number of commercial electricity-only plants, such as those at hospitals and universities. See Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7.

b All commercial sector fuel use other than that in "Commercial CHP."

c Industrial combined-heat-and-power (CHP) and a small number of industrial electricity-only plants. See Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7.

d All industrial sector fuel use other than that in "Coke Plants" and "Industrial CHP."

e 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.

¹ Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities and independent power producers.

g Included in "Commercial Other."

h Included in "Industrial Non-CHP."

i Beginning in 2008, residential coal consumption data are no longer collected by the U.S. Energy Information Administration (EIA).

R=Revised. E=Estimate. F=Forecast.

Notes: • CHP monthly values are from Table 7.4c; electric power sector monthly values are from Table 7.4b; all other monthly values are estimates derived from collected quarterly and annual data. See Note 2, "Coal Consumption," at end of section. • Data values preceded by "F" are derived from EIA's Short-Term Integrated Forecasting System. See Note 4, "Coal Forecast Values," 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/#coal (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Table 6.3 Coal Stocks by Sector

(Thousand Short Tons)

			E					
	Producers	Residentiala			Electric			
	and Distributors	and Commercial	Coke Plants	Otherb	Total	Total	Power Sector ^{c,d}	Total
1950 Year	NA	2,462	16,809	26,182	42,991	45,453	31,842	77,295
1955 Year		998	13,422	15,880	29,302	30,300	41.391	71,691
1960 Year		666	11,122	11,637	22,759	23,425	51,735	75,160
1965 Year		353	10,640	13,122	23,762	24,115	54,525	78,640
1970 Year		300	9,045	11,781	20,826	21,126	71,908	93,034
1975 Year		233	8,797	8,529	17,326	17,559	110,724	140,391
1980 Year 1985 Year		NA NA	9,067 3.420	11,951 10.438	21,018 13.857	21,018 13.857	183,010 156.376	228,407 203.367
1990 Year		NA NA	3,420 3,329	10,438 8,716	13,857	13,857	156,376	203,367 201,629
1995 Year		NA NA	2,632	5,702	8,334	8,334	126,304	169,083
2000 Year		NA NA	1,494	4,587	6,081	6,081	d 102,296	140,282
2001 Year		NA	1,510	6,006	7,516	7,516	138,496	181,912
2002 Year	43,257	NA	1,364	5,792	7,156	7,156	141,714	192,127
2003 Year		NA	905	4,718	5,623	5,623	121,567	165,468
2004 Year		NA	1,344	4,842	6,186	6,186	106,669	154,006
2005 Year		NA	2,615	5,582	8,196	8,196	101,137	144,304
2006 Year		NA	2,928	6,506	9,434	9,434	140,964	186,946
2007 Year		NA 498	1,936 2,331	5,624 6,007	7,560 8,338	7,560 8,836	151,221 161,589	192,758 205,112
2008 Year 2009 Year		529	1,957	5,109	7,066	7,595	189,467	244,780
2010 Year		552	1,925	4,525	6.451	7,003	174,917	231,740
2011 Year		603	2,610	4,455	7,065	7,668	172,387	231,951
	,		,	,	,	,	,	, , , , ,
2012 January		587	2,507	4,280	6,786	7,374	180,091	235,783
February		572	2,403	4,104	6,508	7,080	186,866	243,688
March		557	2,300	3,929	6,229	6,786	195,380	253,307
April		566 575	2,299	4,025	6,324	6,890	202,265	260,439
May June		575 585	2,297 2.295	4,122 4.219	6,419 6.514	6,995 7,099	203,137 197,924	260,858 255,397
July		589	2,329	4,318	6,647	7,099	183,958	240,314
August		592	2,363	4,418	6,781	7,373	178,537	233,409
September		596	2,396	4,518	6,914	7,510	182,020	235,761
October	45,830	592	2,438	4,504	6,942	7,534	186,396	239,760
November	45,550	587	2,480	4,489	6,970	7,557	188,291	241,398
December	46,157	583	2,522	4,475	6,997	7,581	185,116	238,853
2013 January	^R 46,914	^R 566	2,417	R 4,299	^R 6,716	^R 7,281	178,747	R 232,942
February	^R 47,672	548	2,312	R 4,122	R 6,434	R 6,982	175,325	R 229,979
March	R 48,429	530	2,207	R 3,946	R 6,152	R 6,683	171,518	R 226,630
April	R 48,998	R 530	2,305	R 3,950	R 6,254	R 6,784	172,654	R 228,436
May		529 ^R 529	2,402 2,500	^R 3,954 ^R 3,957	^R 6,356 ^R 6,458	^R 6,885 ^R 6,987	176,670 170,534	R 233,122 R 227,656
June July		529	2,500 2,516	R 4,074	R 6.590	R 7,119	159,536	R 215,793
August		R 530	2,531	R 4,191	R 6,722	R 7,252	154,119	R 209,511
September	R 47,142	530	2,546	R 4,308	R 6,854	R 7,385	152,185	R 206,712
October		^R 519	2,431	R 4,238	^R 6,668	^R 7.187	153,352	R 207,607
November		^R 507	2,315	R 4,167	R 6,483	R 6,989	155,754	R 209,738
December	R 45,659	495	2,200	R 4,097	R 6,297	R 6,792	147,973	R 200,423
2014 January	RF 45,439	465	2,064	R 3,913	^R 5,977	R 6,441	132,324	R 184,204
February	RF 45,780	435	1,927	R 3,729	R 5,657	R 6,091	118,949	R 170,820
March	RF 46,192	405	1,791	3,545	5,336	5,741	117,974	R 169,907
April		413 421	1,833 1,875	3,579 3,613	5,412 5,488	5,825 5,908	128,321 136,218	^R 180,910 ^R 188,437
May June		421 429	1,875	3,613	5,488 5.584	5,908 6.013	136,218	R 184,508
July		F 431	F 1,904	3,647 RF 3,893	5,564 RF 5,797	RF 6,228	125,389	R 176,972
August		F 433	F 1,879	RF 4,135	RF 6,014	RF 6,447	121,042	R 171,285
September		F 435	F 1,847	RF 4,375	RF 6,222	RF 6,656	124,176	R 174,053
		RF 437	F 1,852	RF 4,522	RF 6.374	RF 6.810	136,188	R 186,144
October	*** 43,146	437	1,652	4,522	0,3/4	0,010	130,100	100,144

 ^a Through 1979, data are for the residential and commercial sectors. Beginning in 2008, data are for the commercial sector only.
 ^b Through 1979, data are for manufacturing plants and the transportation sector.

Notes: • Stocks are at end of period. • Electric power sector monthly values

are from Table 7.5; producers and distributors monthly values are estimates derived from collected annual data; all other monthly values are estimates derived from collected quarterly values. • Data values preceded by "F" are derived from the U.S. Energy Information Administration's Short-Term Integrated Forecasting System. See Note 4, "Coal Forecast Values," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is

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

Inrough 1979, data are for manufacturing plants and the transportation sector. For 1980–2007, data are for manufacturing plants only. Beginning in 2008, data are for manufacturing plants and coal transformation/processing 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.

Excludes waste coal. Through 1998, data are for electric utilities only. Beginning in 1999, data are for electric utilities and independent power producers. R=Revised. NA=Not available. F=Forecast.

Notes: Stocks are at end of period.

Coal

Note 1. Coal Production. Preliminary monthly estimates of national coal production are the sum of weekly estimates developed by the U.S. Energy Information Administration (EIA) and published in the *Weekly Coal Production* report. When a week extends into a new month, production is allocated on a daily basis and added to the appropriate month. Weekly estimates are based on Association of American Railroads (AAR) data showing the number of railcars loaded with coal during the week by Class I and certain other railroads.

Through 2001, the weekly coal production model converted AAR data into short tons of coal by using the average number of short tons of coal per railcar loaded reported in the "Quarterly Freight Commodity Statistics" from the Surface Transportation Board. If an average coal tonnage per railcar loaded was not available for a specific railroad, the national average was used. To derive the estimate of total weekly production, the total rail tonnage for the week was divided by the ratio of quarterly production shipped by rail and total quarterly production. Data for the corresponding quarter of previous years were used to derive this ratio. This method ensured that the seasonal variations were preserved in the production estimates.

From 2002 through 2014, the weekly coal production model used statistical auto regressive methods to estimate national coal production as a function of railcar loadings of coal, heating degree-days, and cooling degree-days. On Thursday of each week, EIA received from the AAR data for the previous week. The latest weekly national data for heating degree-days and cooling degree-days were obtained from the National Oceanic and Atmospheric Administration's Climate Prediction Center.

Beginning in 2015, the revised weekly coal production model uses statistical auto regressive methods to estimate national coal production as a function of railcar loadings of coal. EIA receives AAR data on Thursday of each week for prior week car loadings. The weekly coal model is run and a national level coal production estimate is obtained. From there, state-level estimates are calculated using historical state production share. The state estimates are then aggregated to various regional-level estimates. The weekly coal model is refit every quarter after preliminary coal data are available.

When preliminary quarterly data become available, the monthly and weekly estimates are adjusted to conform to the quarterly figures. The adjustment procedure uses historical state-level production data, the methodology for which can be seen in the documentation located at http://www.eia.gov/coal/production/weekly/. Initial estimates of annual production published in January of the following year are based on preliminary production data covering the first nine months (three quarters) and

weekly/monthly estimates for the fourth quarter. All quarterly, monthly, and weekly production figures are adjusted to conform to the final annual production data published in the *Monthly Energy Review* in the fall of the following year.

Note 2. Coal Consumption. Forecast data (designated by an "F") are derived from forecasted values shown in EIA's *Short-Term Energy Outlook* (DOE/EIA-0202) table titled "U.S. Coal Supply, Consumption, and Inventories." The monthly estimates are based on the quarterly values, which are released in March, June, September, and December. The estimates are revised quarterly as collected data become available from the data sources. Sector-specific information follows.

Residential and Commercial—Through 2007, coal consumption by the residential and commercial sectors is reported to EIA for the two sectors combined; EIA estimates the amount consumed by the sectors individually. To create the estimates, it is first assumed that an occupied coal-heated housing unit consumes fuel at the same Btu rate as an oilheated housing unit. Then, for the years in which data are available on the number of occupied housing units by heating source (1973-1981 and subsequent odd-numbered years), residential consumption of coal is estimated using the following steps: a ratio is created of the number of occupied housing units heated by coal to the number of occupied housing units heated by oil; that ratio is then multiplied by the Btu quantity of oil consumed by the residential sector to derive an estimate of the Btu quantity of coal consumed by the residential sector; and, finally, the amount estimated as the residential sector consumption is subtracted from the residential and commercial sectors' combined consumption to derive the commercial sector's estimated consumption. Beginning in 2008, residential coal consumption data are not collected by EIA, and commercial coal consumption data are taken directly from reported data.

Industrial Coke Plants—Through 1979, monthly coke plant consumption data were taken directly from reported data. For 1980–1987, coke plant consumption estimates were derived by proportioning reported quarterly data by using the ratios of monthly-to-quarterly consumption data in 1979, the last year in which monthly data were reported. Beginning in 1988, monthly coke plant consumption estimates are derived from the reported quarterly data by using monthly ratios of raw steel production data from the American Iron and Steel Institute. The ratios are the monthly raw steel production from open hearth and basic oxygen process furnaces as a proportion of the quarterly production from those kinds of furnaces.

Industrial Other—Through 1977, monthly consumption data for the other industrial sector (all industrial users minus coke plants) were derived by using reported data to modify baseline consumption figures from the most recent Bureau of the Census Annual Survey of Manufactures or Census of Manufactures. For 1978 and 1979, monthly estimates were derived from data reported on Forms EIA-3 and EIA-6. For

1980–1987, monthly figures were estimated by proportioning quarterly data by using the ratios of monthly-toquarterly consumption data in 1979, the last year in which monthly data were reported on Form EIA-3. Beginning in 1988, monthly consumption for the other industrial sector is estimated from reported quarterly data by using ratios derived from industrial production indices published by the Board of Governors of the Federal Reserve System. Indices for six major industry groups are used as the basis for calculating the ratios: food manufacturing, which is North American Industry Classification System (NAICS) code 311; paper manufacturing, NAICS 322; chemical manufacturing, NAICS 325; petroleum and coal products, NAICS 324; non-metallic mineral products manufacturing, NAICS 327; and primary metal manufacturing, NAICS 331. The monthly ratios are computed as the monthly sum of the weighted indices as a proportion of the quarterly sum of the weighted indices by using the 1977 proportion as the weights. Through 2007, quarterly consumption data for the other industrial sector were derived by adding beginning stocks at manufacturing plants to current receipts and subtracting ending stocks at manufacturing plants. In this calculation, current receipts are the greater of either reported receipts from manufacturing plants (Form EIA-3) or reported shipments to the other industrial sector (Form EIA-6), thereby ensuring that agriculture, forestry, fishing, and construction consumption data were included where appropriate. Beginning in 2008, quarterly consumption totals for other industrial coal include data for manufacturing and mining only. Over time, surveyed coal consumption data for agriculture, forestry, fishing, and construction dwindled to about 20-30 thousand short tons annually. Therefore, in 2008, EIA consolidated its programs by eliminating agriculture, forestry, fishing, and construction as surveyed sectors.

Electric Power Sector—Monthly consumption data for electric power plants are taken directly from reported data.

Note 3. Coal Stocks. Coal stocks data are reported by major end-use sector. Forecast data for the most recent months (designated by an "F") are derived from forecasted values shown in EIA's *Short-Term Energy Outlook* (DOE/EIA-0202) table titled "U.S. Coal Supply, Consumption, and Inventories." The monthly estimates are based on the quarterly values (released in March, June, September, and December) or annual values. The estimates are revised as collected data become available from the data sources. Sector-specific information follows.

Producers and Distributors—Through 1997, quarterly stocks at producers and distributors were taken directly from reported data. Monthly data were estimated by using one-third of the current quarterly change to indicate the monthly change in stocks. Beginning in 1998,

end-of-year stocks are taken from reported data. Monthly stocks are estimated by a model.

Residential and Commercial—Through 1979, stock estimates for the residential and commercial sector were taken directly from reported data. For 1980–2007, stock estimates were not collected. Beginning in 2008, quarterly commercial (excluding residential) stocks data are collected on Form EIA-3 (data for "Commercial and Institutional Coal Users").

Industrial Coke Plants—Through 1979, monthly stocks at coke plants were taken directly from reported data. Beginning in 1980, coke plant stocks are estimated by using one-third of the current quarterly change to indicate the monthly change in stocks. Quarterly stocks are taken directly from data reported on Form EIA-5.

Industrial Other—Through 1977, stocks for the other industrial sector were derived by using reported data to modify baseline figures from a one-time Bureau of Mines survey of consumers. For 1978–1982, monthly estimates were derived by judgmentally proportioning reported quarterly data based on representative seasonal patterns of supply and demand. Beginning in 1983, other industrial coal stocks are estimated as indicated above for coke plants. Quarterly stocks are taken directly from data reported on Form EIA-3 and therefore include only manufacturing industries; data for agriculture, forestry, fishing, mining, and construction stocks are not available.

Electric Power Sector—Monthly stocks data at electric power plants are taken directly from reported data.

Note 4. Coal Forecast Values. Data values preceded by "F" in this section are forecast values. They are derived from EIA's Short-Term Integrated Forecasting System (STIFS). The model is driven primarily by data and assumptions about key macroeconomic variables, the world oil price, and weather. The coal forecast relies on other variables as well, such as alternative fuel prices (natural gas and oil) and power generation by sources other than fossil fuels, including nuclear and hydroelectric power. Each month, EIA staff review the model output and make adjustments, if appropriate, based on their knowledge of developments in the coal industry.

The STIFS model results are published monthly in EIA's *Short-Term Energy Outlook*, which is accessible on the Web at http://www.eia.gov/forecasts/steo/.

Table 6.1 Sources

Production

1949–September 1977: U.S. Department of the Interior, Bureau of Mines, *Minerals Yearbook* and *Minerals Industry Surveys*.

October 1977 forward: U.S. Energy Information Administration (EIA), *Weekly Coal Production*.

Waste Coal Supplied

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," and Form EIA-3, "Quarterly Coal Consumption and Quality Report—Manufacturing Plants."

2004–2007: EIA, Form EIA-906, "Power Plant Report," Form EIA-920, "Combined Heat and Power Plant Report," and Form EIA-3, "Quarterly Coal Consumption and Quality Report—Manufacturing Plants."

2008 forward: EIA, Form EIA-923, "Power Plant Operations Report," and Form EIA-3, "Quarterly Coal Consumption and Quality Report—Manufacturing and Transformation/Processing Coal Plants and Commercial and Institutional Coal Users"; and, for forecast values, EIA, Short-Term Integrated Forecasting System.

Imports and Exports

1949 forward: U.S. Department of Commerce, Bureau of the Census, Monthly Reports IM 145 (Imports) and EM 545 (Exports).

Stock Change

1950 forward: Calculated from data in Table 6.3.

Losses and Unaccounted for

1949 forward: Calculated as the sum of production, imports, and waste coal supplied, minus exports, stock change, and consumption.

Consumption

1949 forward: Table 6.2.

Table 6.2 Sources

Residential and Commercial Total

Through 2007, coal consumption by the residential and commercial sectors combined is reported to the U.S. Energy Information Administration (EIA). EIA estimates the sectors individually using the method described in Note 2, "Consumption," at the end of Section 6. Data for the residential and commercial sectors combined are from:

1949–1976: U.S. Department of the Interior (DOI), Bureau of Mines (BOM), *Minerals Yearbook*.

January–September 1977: DOI, BOM, Form 6-1400, "Monthly Coal Report, Retail Dealers—Upper Lake Docks." October 1977–1979: EIA, Form EIA-2, "Monthly Coal Report, Retail Dealers—Upper Lake Docks."

1980–1997: EIA, Form EIA-6, "Coal Distribution Report," quarterly.

1998–2007: DOI, Mine Safety and Health Administration, Form 7000-2, "Quarterly Coal Consumption and Quality Report—Coke Plants."

Commercial Total

Beginning in 2008, coal consumption by the commercial (excluding residential) sector is reported to EIA. Data for total commercial consumption are from:

2008 forward: EIA, Form EIA-3, "Quarterly Coal Consumption and Quality Report—Manufacturing and Transformation/Processing Coal Plants and Commercial and Institutional Coal Users" (data for "Commercial and Institutional Coal Users"); and, for forecast values, EIA, Short-Term Integrated Forecasting System (STIFS).

Commercial CHP

1989 forward: Table 7.4c.

Commercial Other

1949 forward: Calculated as "Commercial Total" minus "Commercial CHP."

Industrial Coke Plants

1949–September 1977: DOI, BOM, *Minerals Yearbook* and *Minerals Industry Surveys*.

October 1977–1980: EIA, Form EIA-5/5A, "Coke and Coal Chemicals—Monthly/Annual Supplement."

1981–1984: EIA, Form EIA-5/5A, "Coke Plant Report—Quarterly/Annual Supplement."

1985 forward: EIA, Form EIA-5, "Quarterly Coal Consumption and Quality Report—Coke Plants"; and, for forecast values, EIA, STIFS.

Other Industrial Total

1949–September 1977: DOI, BOM, *Minerals Yearbook* and *Minerals Industry Surveys*.

October 1977–1979: EIA, Form EIA-3, "Monthly Coal Consumption Report—Manufacturing Plants."

1980–1997: EIA, Form EIA-3, "Quarterly Coal Consumption Report—Manufacturing Plants," and Form EIA-6, "Coal Distribution Report," quarterly.

1998–2007: EIA, Form EIA-3, "Quarterly Coal Consumption Report—Manufacturing Plants," Form EIA-6A, "Coal Distribution Report," annual, and Form EIA-7A, "Coal Production Report," annual.

2008 forward: EIA, Form EIA-3, "Quarterly Coal Consumption and Quality Report—Manufacturing and Transformation/Processing Coal Plants and Commercial and Institutional Coal Users," and Form EIA-7A, "Coal Production Report," annual; and, for forecast values, EIA, STIFS.

Other Industrial CHP

1989 forward: Table 7.4c.

Other Industrial Non-CHP

1949 forward: Calculated as "Other Industrial Total" minus "Other Industrial CHP."

Transportation

1949–1976: DOI, BOM, Minerals Yearbook.

January–September 1977: DOI, BOM, Form 6-1400, "Monthly Coal Report, Retail Dealers—Upper Lake Docks." October–December 1977: EIA, Form EIA-6, "Coal Distribution Report," quarterly.

Electric Power

1949 forward: Table 7.4b.

Table 6.3 Sources

Producers and Distributors

1973–1979: U.S. Department of the Interior (DOI), Bureau of Mines (BOM), Form 6-1419Q, "Distribution of Bituminous Coal and Lignite Shipments."

1980–1997: U.S. Energy Information Administration (EIA), Form EIA-6, "Coal Distribution Report," quarterly. 1998–2007: EIA, Form EIA-6A, "Coal Distribution Report," annual.

2008 forward: EIA, Form EIA-7A, "Coal Production Report," annual, and Form EIA-8A, "Coal Stocks Report," annual; and, for forecast values, EIA, Short-Term Integrated Forecasting System (STIFS).

Residential and Commercial

1949–1976: DOI, BOM, Minerals Yearbook.

January–September 1977: DOI, BOM, Form 6-1400, "Monthly Coal Report, Retail Dealers—Upper Lake Docks." October 1977–1979: EIA, Form EIA-2, "Monthly Coal Report, Retail Dealers—Upper Lake Docks."

2008 forward: EIA, Form EIA-3, "Quarterly Coal Consumption and Quality Report, Manufacturing and

Transformation/Processing Coal Plants and Commercial and Institutional Coal Users" (data for "Commercial and Institutional Coal Users"); and, for forecast values, EIA, STIFS.

Industrial Coke Plants

1949–September 1977: DOI, BOM, *Minerals Yearbook* and *Minerals Industry Surveys*.

October 1977–1980: EIA, Form EIA-5/5A, "Coke and Coal Chemicals—Monthly/Annual."

1981–1984: EIA, Form EIA 5/5A, "Coke Plant Report—Quarterly/Annual Supplement."

1985 forward: EIA, Form EIA-5, "Quarterly Coal Consumption and Quality Report—Coke Plants" and, for forecast values, EIA, STIFS.

Industrial Other

1949–September 1977: DOI, BOM, *Minerals Yearbook* and *Minerals Industry Surveys*.

October 1977–1979: EIA, Form EIA-3, "Monthly Coal Consumption Report—Manufacturing Plants."

1998–2007: EIA, Form EIA-3, "Quarterly Coal Consumption Report—Manufacturing Plants."

2008 forward: EIA, Form EIA-3, "Quarterly Coal Consumption and Quality Report—Manufacturing and Transformation/Processing Coal Plants and Commercial and Institutional Coal Users"; and, for forecast values, EIA, STIFS.

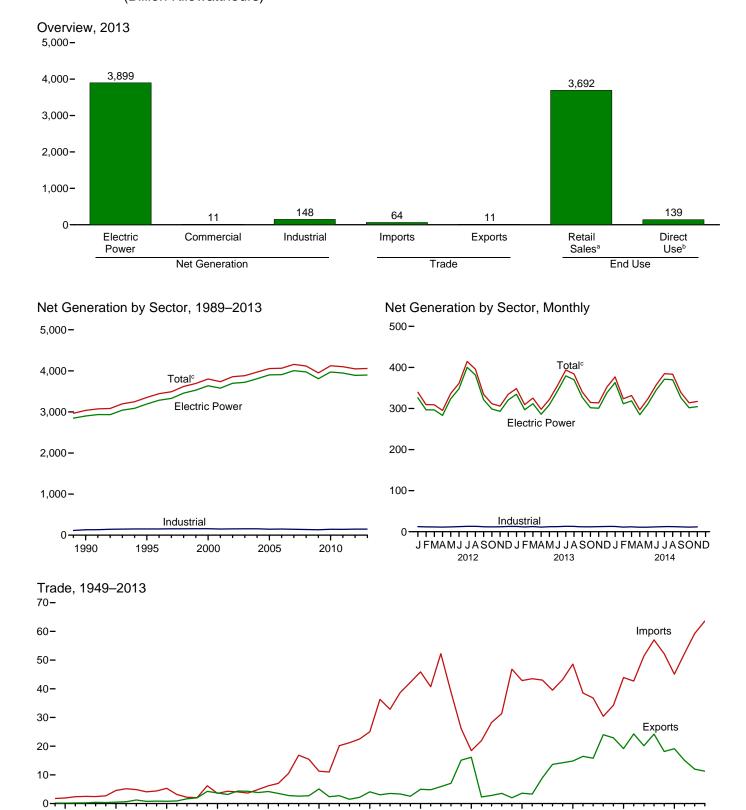
Electric Power

1949 forward: Table 7.5.

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7. Electricity

Figure 7.1 Electricity Overview (Billion Kilowatthours)



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

^b See "Direct Use" in Glossary.

c 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 Gen	eration			Trade				End Use	
	Electric Power Sector ^a	Com- mercial Sector ^b	Indus- trial Sector ^c	Total	Imports ^d	Exportsd	Net Imports ^d	T&D Losses ^e and Unaccounted for ^f	Retail Sales	Direct Use ^h	Total
1950 Total 1955 Total 1965 Total 1965 Total 1965 Total 1970 Total 1970 Total 1970 Total 1980 Total 1980 Total 1980 Total 1995 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2008 Total 2008 Total 2008 Total 2008 Total 2009 Total 2009 Total 2009 Total 2000 Total 2001 Total 2001 Total 2001 Total 2001 Total 2001 Total 2001 Total	329 547 756 1,055 1,532 1,918 2,470 2,901 3,638 3,580 3,698 3,721 3,908 3,902 3,908 3,905 3,974 3,810 3,912 3,948	NA NA NA NA NA NA 8 8 7 7 7 8 8 8 8 8 8 8 8 9 10	5 3 4 3 3 3 3 3 151 157 149 153 155 154 145 148 143 137 132 144	334 550 759 1,058 1,535 1,921 2,290 2,473 3,038 3,353 3,802 3,737 3,858 3,883 3,971 4,055 4,065 4,157 4,119 3,950 4,125 4,100	2 5 5 4 6 11 25 46 18 49 39 37 30 34 44 43 57 57 52 45 52	(s) (s) 1 4 5 4 5 16 4 15 16 24 23 19 24 24 19 15	2 4 5 (s) 2 6 21 41 29 34 22 21 6 11 25 18 33 34 26 37	44 58 76 104 145 180 216 190 203 229 244 202 248 266 269 266 298 287 261 265 255	291 497 688 954 1,392 1,747 2,094 2,324 2,713 3,013 3,421 3,494 3,547 3,661 3,670 3,765 3,733 3,597 3,754	NA NA NA NA NA NA 125 151 171 163 166 168 150 147 126 132 132	291 497 688 954 1,392 1,747 2,094 2,324 2,837 3,164 3,592 3,632 3,632 3,632 3,613 3,811 3,817 3,890 3,865 3,724 3,886 3,883
Page 1 Pa	326 297 296 283 324 348 400 381 322 299 293 321 3,890	1 1 1 1 1 1 1 1 1 1 1 1	12 12 12 11 12 12 13 13 12 12 12 12 13 146	340 309 309 295 337 361 415 396 335 312 306 335 4,048	4 4 4 5 5 5 7 6 5 4 5 4 5 9	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 3 4 4 4 6 5 4 4 4 3 47	20 14 17 18 33 28 37 24 9 13 20 29 263	311 287 284 271 297 325 371 365 318 291 278 297 3,695	E 12 E 11 E 11 E 11 E 11 E 11 E 12 E 11 E 11	323 298 295 281 308 337 383 377 329 302 290 309 3,832
Pebruary February March April May June July August September October November December Total	335 297 312 286 309 343 380 370 327 302 301 338 3,899	1 1 1 1 1 1 1 1 1 1 1 1	13 12 13 11 12 12 13 13 12 12 12 13 148	348 309 325 298 322 356 394 384 340 315 314 352 4,058	5555566665555 64	1 1 1 1 1 1 1 1 1 1 1 1	4 4 4 3 5 5 5 6 4 4 4 4 5 5	23 14 23 16 28 32 31 27 12 15 27 30 279	318 289 294 275 287 317 356 350 321 292 279 314 3,692	E 12 E 11 E 12 E 11 E 12 E 12 E 11 E 11	330 300 306 285 298 329 368 363 332 303 291 326 3,831
Petron July September October November 11-Month Total Marks September Septem	363 312 319 285 312 345 371 370 326 302 305 3,608	1 1 1 1 1 1 1 1 1 1 1	13 11 12 11 11 12 12 12 12 11 12 12	377 324 332 297 324 357 385 383 339 314 317 3,749	5 4 5 4 5 5 6 6 6 6 5 6 6 5 6 6	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1	4 3 3 3 4 4 5 5 5 4 5 4 4	30 7 24 16 29 31 31 29 9 14 29 249	339 309 300 273 288 319 347 348 323 293 282 3,421	E 12 E 11 E 11 E 11 E 11 E 11 E 12 E 11 E 11	351 320 311 283 299 330 359 360 334 304 293 3,544
2013 11-Month Total 2012 11-Month Total	3,560 3,569	10 10	135 133	3,706 3,713	59 55	10 11	49 44	250 234	3,378 3,397	E 127 E 126	3,505 3,523

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

plants.

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

d Electricity transmitted across U.S. borders. Net imports equal imports minus

exports.

⁹ Transmission and distribution losses (electricity losses that occur between the point of generation and delivery to the customer). See Note 2, "Electrical System Energy Losses," at end of Section 2.

¹ Data collection frame differences and nonsampling error.

⁹ Electricity retail sales to ultimate customers by electric utilities and, beginning

in 1996, other energy service providers.

h 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.

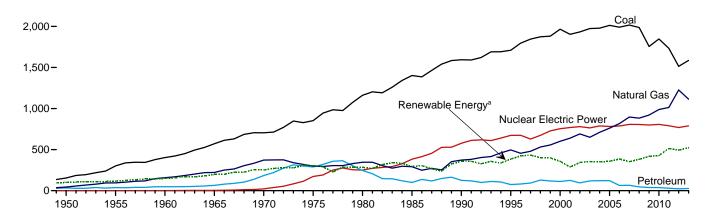
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#electricity (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Sources: See end of section.

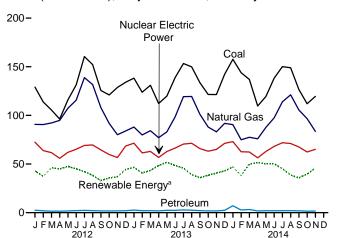
Figure 7.2 Electricity Net Generation (Billion Kilowatthours)

Total (All Sectors), Major Sources, 1949–2013

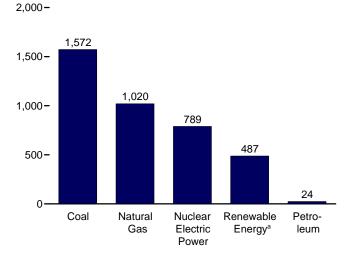
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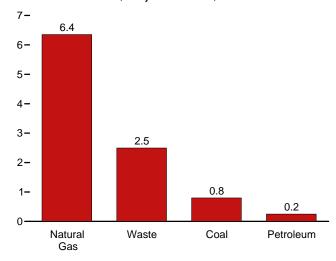
Total (All Sectors), Major Sources, Monthly



Electric Power Sector, Major Sources, 2013

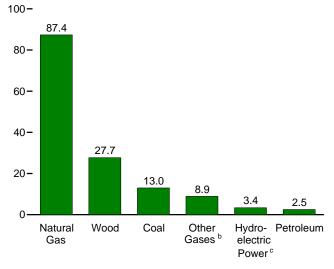


Commercial Sector, Major Sources, 2013



 $[\]ensuremath{^{\mathrm{a}}}$ Conventional hydroelectric power, wood, waste, geothermal, solar/PV, and wind.

Industrial Sector, Major Sources, 2013



^c Conventional hydroelectric power.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#electricity. Sources: Tables 7.2a–7.2c.

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

Table 7.2a Electricity Net Generation: Total (All Sectors)

(Sum of Tables 7.2b and 7.2c; Million Kilowatthours)

1950 Total			Fossil	Fuels						Renewab	le Energy			
Total									Bior	nass				
1985 Total 301,383 37,339 95,285 NA 50 0 1 116,236 276 NA		Coal ^a	Petro- leum ^b		Other Gases ^d	Electric	electric Pumped	Hydro- electriç	Wood ^g	Waste ^h			Wind	Total ^j
1995 Total 1,709,426 74,554 496,058 13,870 673,402 -2,725 310,833 3,65,21 40,405 13,378 497 3,164 3,355 2000 Total 1,903,956 124,880 63,129 9,039 768,826 -8,823 216,961 35,209 14,548 13,741 543 5,973 3,802 2021 Total 1,933,310 3,456 691,006 11,463 760,034 3,733 264,320 3,86,851 15,044 14,491 543 10,374 3,858 2021 10 1 1,978,301 121,145 710,100 15,222 788,528 -8,823 216,961 35,209 14,149 543 10,344 3,858 2005 10 1 1,978,301 121,145 710,100 15,222 788,528 -8,488 268,417 38,117 51,421 14,811 575 14,144 3,977 2005 Total 1,990,511 64,166 816,441 14,177 787,219 -6,558 289,246 38,762 14,637 61,550 17,811 4,055 2006 Total 1,990,511 64,166 816,441 14,177 787,219 -6,558 289,246 38,762 14,637 61,2 34,450 14,600 14,652 14,637 61,2 3,450 14,600 14,652 14,637 61,2 3,450 14,600 14,652 14,637 61,2 3,450 14,600 14,652 14,600 14,652 14,600 14,652 14,600 14,652 14,600 14,652 14,600 14,652 14,600 14,600 14,652 14,600 1	1955 Total 1960 Total 1965 Total 1970 Total 1975 Total 1980 Total 1985 Total	301,363 403,067 570,926 704,394 852,786 1,161,562 1,402,128	37,138 47,987 64,801 184,183 289,095 245,994 100,202	95,285 157,970 221,559 372,890 299,778 346,240 291,946	NA NA NA NA NA NA	0 518 3,657 21,804 172,505 251,116 383,691	(f) (f) (f) (f) (f) (f) (f)	116,236 149,440 196,984 250,957 303,153 279,182 284,311	276 140 269 136 18 275 743	NA NA NA 220 174 158 640	NA 33 189 525 3,246 5,073 9,325	NA NA NA NA NA NA	NA NA NA NA NA NA	334,088 550,299 759,156 1,058,386 1,535,111 1,920,755 2,289,600 2,473,002
February 113,872 1,902 90,610 1,044 63,847 -237 20,283 3,111 1,504 1,193 135 11,052 308	1995 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2007 Total 2008 Total 2009 Total 2010 Total	1,709,426 1,966,265 1,903,956 1,933,130 1,973,737 1,978,301 2,012,873 1,990,511 2,016,456 1,985,801 1,755,904 1,847,290	74,554 111,221 124,880 94,567 119,406 121,145 122,225 64,166 65,739 46,243 38,937 37,061	496,058 601,038 639,129 691,006 649,908 710,100 760,960 816,441 896,590 882,981 920,979 987,697	13,870 13,955 9,039 11,463 15,600 15,252 13,464 14,177 13,453 11,707 10,632 11,313	673,402 753,893 768,826 780,064 763,733 788,528 781,986 787,219 806,425 806,208 798,855 806,968	-2,725 -5,539 -8,823 -8,743 -8,535 -8,548 -6,558 -6,558 -6,896 -6,288 -4,627 -5,501	310,833 275,573 216,961 264,329 275,806 268,417 270,321 289,246 247,510 254,831 273,445 260,203	36,521 37,595 35,200 38,665 37,529 38,117 38,856 38,762 39,014 37,300 36,050 37,172	20,405 23,131 14,548 15,044 15,812 15,421 15,420 16,099 16,525 17,735 18,443 18,917	13,378 14,093 13,741 14,491 14,424 14,811 14,692 14,568 14,637 14,840 15,009	497 493 543 555 534 575 550 508 612 864 891 1,212	3,164 5,593 6,737 10,354 11,187 14,144 17,811 26,589 34,450 55,368 94,652	3,037,827 3,363,487 3,736,644 3,858,452 3,883,185 3,970,555 4,055,423 4,064,702 4,156,745 4,119,388 3,950,331 4,125,060 4,100,141
February 123,828 1,974 79,874 877 61,483 -300 20,511 3,141 1,435 1,301 479 13,907 309 March 130,901 2,011 84,281 989 62,947 -409 20,654 3,372 1,708 1,424 667 15,643 325 April 112,232 1,887 77,128 925 56,767 -288 24,758 2,701 1,634 1,330 734 17,294 298 May 119,898 2,410 83,063 1,059 62,848 -355 28,549 3,140 1,747 1,357 827 16,264 321 June 138,849 2,341 98,517 1,015 66,430 -355 27,308 3,287 1,702 1,377 930 13,766 325 July 153,304 2,839 119,274 1,150 70,539 -345 27,240 3,526 1,750 1,404 861 11,146 393 August 149,875 2,469 119,480 1,144 71,344 -454 21,712 3,586 1,717 1,379 1,001 9,593 383 September 133,577 2,108 101,102 1,037 65,799 -389 16,929 3,396 1,624 1,356 979 11,709 340 October 121,474 1,883 88,049 966 63,184 -320 17,307 3,327 1,659 1,425 967 13,720 314 November 121,431 1,807 83,110 1,064 64,975 -345 17,732 3,413 1,652 1,298 750 15,888 311 December 142,304 2,426 91,777 1,048 71,294 -402 21,323 3,623 1,696 1,424 737 14,100 352 Total 1,585,998 26,863 1,113,665 12,271 789,017 -4,424 269,136 39,937 19,957 16,517 9,252 167,665 4,058 14,051 13,004 3,283 77,506 845 62,397 -398 24,243 3,574 1,628 1,376 1,355 1,880 15,777 331 April 109,686 1,730 75,975 778 56,385 -362 25,075 3,219 1,608 1,385 1,880 1,807 18,747 296 May 119,483 2,006 87,700 926 62,947 603 26,442 3,373 1,685 1,386 1,385 1,880 1,5532 323 June 138,241 2,023 97,466 960 68,138 -611 25,854 3,634 1,597 1,336 2,061 15,691 357 July 150,334 149,006 2,055 121,176 1,072 71,129 -669 19,786 3,788 1,738 1,3664 1,874 12,096 384 August 149,006 2,055 121,176 1,072 71,129 -769 19,786 3,718 1,738 1,3664 1,874 12,096 384 August 149,006 2,055 121,176 1,072 71,129 -769 19,786 3,719 1,786 3,719 1,0187 338	February March April May June July August September October November December	113,872 105,526 96,285 115,983 131,261 160,450 152,181 125,589 120,999 128,727 134,079	1,902 1,541 1,503 1,730 2,068 2,340 2,118 1,860 1,805 1,810 2,036	90,610 92,251 94,829 107,352 115,598 138,863 131,736 108,012 91,725 80,169 83,989	1,044 1,076 1,057 1,002 972 1,042 1,050 904 895 875 963	63,847 61,729 55,871 62,081 65,140 69,129 69,602 64,511 59,743 56,713 68,584	-237 -281 -265 -371 -507 -619 -529 -431 -378 -409 -576	20,283 25,909 26,294 28,643 26,659 26,491 23,034 17,604 16,501 18,732 22,984	3,111 3,034 2,704 2,937 3,081 3,352 3,370 3,227 3,113 3,190 3,365	1,504 1,623 1,583 1,654 1,612 1,721 1,726 1,626 1,716 1,684 1,773	1,193 1,285 1,248 1,304 1,277 1,321 1,304 1,300 1,329 1,347 1,390	135 231 319 463 527 510 461 458 431 347 349	11,052 14,026 12,709 12,541 11,972 8,822 8,469 8,790 12,636 11,649 14,524	339,528 309,389 309,091 295,228 336,518 360,826 414,640 395,700 334,585 311,651 305,975 334,635 4,047,765
February 143,908 2,788 74,987 760 62,639 -419 17,430 3,271 1,344 1,257 858 14,001 323 March 137,004 3,283 77,506 845 62,397 -398 24,243 3,574 1,628 1,376 1,355 17,779 331 April 109,686 1,730 75,975 778 56,385 -362 25,075 3,219 1,608 1,359 1,607 18,747 296 May 119,483 2,006 87,700 926 62,947 -603 26,442 3,373 1,628 1,385 1,880 15,532 323 June 138,241 2,023 97,466 960 68,138 -611 25,854 3,634 1,597 1,336 2,061 15,691 357 July 150,134 2,037 113,916 1,081 71,940 -467 24,268 3,788 1,738 1,364 1,874 12,096 384 August 149,006 2,055 121,176 1,072 71,129 <td< th=""><td>February March April May June July August September October November December</td><td>123,828 130,961 112,232 119,898 138,849 153,304 149,875 133,577 121,474 121,431 142,304</td><td>1,974 2,011 1,887 2,410 2,341 2,839 2,469 2,108 1,883 1,807 2,426</td><td>79,874 84,281 77,128 83,063 98,517 119,274 119,480 101,102 88,049 83,110 91,777</td><td>877 989 925 1,059 1,015 1,150 1,144 1,037 966 1,064 1,048</td><td>61,483 62,947 56,767 62,848 66,430 70,539 71,344 65,799 63,184 64,975 71,294</td><td>-300 -409 -288 -355 -355 -345 -454 -389 -320 -345 -402</td><td>20,511 20,654 24,758 28,549 27,308 27,240 21,712 16,929 17,307 17,732 21,323</td><td>3,141 3,372 2,701 3,140 3,287 3,526 3,586 3,396 3,327 3,413 3,623</td><td>1,435 1,708 1,634 1,747 1,702 1,750 1,717 1,624 1,659 1,652 1,696</td><td>1,301 1,424 1,330 1,357 1,377 1,404 1,379 1,356 1,425 1,298 1,424</td><td>479 667 734 827 930 861 1,001 979 967 750 737</td><td>13,907 15,643 17,294 16,264 13,766 11,146 9,593 11,709 13,720 15,888 14,100</td><td>348,490 309,435 325,301 298,074 321,834 356,224 393,799 383,968 340,293 314,683 313,752 352,357 4,058,209</td></td<>	February March April May June July August September October November December	123,828 130,961 112,232 119,898 138,849 153,304 149,875 133,577 121,474 121,431 142,304	1,974 2,011 1,887 2,410 2,341 2,839 2,469 2,108 1,883 1,807 2,426	79,874 84,281 77,128 83,063 98,517 119,274 119,480 101,102 88,049 83,110 91,777	877 989 925 1,059 1,015 1,150 1,144 1,037 966 1,064 1,048	61,483 62,947 56,767 62,848 66,430 70,539 71,344 65,799 63,184 64,975 71,294	-300 -409 -288 -355 -355 -345 -454 -389 -320 -345 -402	20,511 20,654 24,758 28,549 27,308 27,240 21,712 16,929 17,307 17,732 21,323	3,141 3,372 2,701 3,140 3,287 3,526 3,586 3,396 3,327 3,413 3,623	1,435 1,708 1,634 1,747 1,702 1,750 1,717 1,624 1,659 1,652 1,696	1,301 1,424 1,330 1,357 1,377 1,404 1,379 1,356 1,425 1,298 1,424	479 667 734 827 930 861 1,001 979 967 750 737	13,907 15,643 17,294 16,264 13,766 11,146 9,593 11,709 13,720 15,888 14,100	348,490 309,435 325,301 298,074 321,834 356,224 393,799 383,968 340,293 314,683 313,752 352,357 4,058,209
September 126,634 1,902 105,527 1,106 67,535 -505 15,901 3,461 1,632 1,342 1,925 11,473 338 October 111,967 1,494 96,695 1,029 62,391 -421 17,051 3,444 1,671 1,373 1,701 14,552 313 November 119,535 1,723 83,614 1,020 65,140 -506 18,647 3,533 1,674 1,388 1,387 18,997 317 11-Month Total 1,463,297 28,170 1,025,052 10,523 723,705 -5,322 236,312 38,645 17,844 14,931 17,360 167,044 3,748	February March April May June July August September October November 11-Month Total	143,908 137,004 109,686 119,483 138,241 150,134 149,006 126,634 111,967 119,535 1,463,297	2,788 3,283 1,730 2,006 2,023 2,037 2,055 1,902 1,494 1,723 28,170	74,987 77,506 75,975 87,700 97,466 113,916 121,176 105,527 96,695 83,614 1,025,052	760 845 778 926 960 1,081 1,072 1,106 1,029 1,020 10,523	62,639 62,397 56,385 62,947 68,138 71,940 71,129 67,535 62,391 65,140 723,705	-419 -398 -362 -603 -611 -467 -769 -505 -421 -506 -5,322	17,430 24,243 25,075 26,442 25,854 24,268 19,786 15,901 17,051 18,647 236,312	3,271 3,574 3,219 3,373 3,634 3,712 3,461 3,444 3,533 38,645	1,344 1,628 1,608 1,628 1,597 1,738 1,741 1,632 1,671 1,674 17,844	1,257 1,376 1,359 1,385 1,336 1,364 1,357 1,342 1,373 1,388	858 1,355 1,607 1,880 2,061 1,874 1,937 1,925 1,701 1,387 17,360	14,001 17,779 18,747 15,532 15,691 12,096 10,187 11,473 14,552 18,997	377,019 323,662 331,595 296,766 323,731 357,419 384,839 383,976 313,972 317,176 3,748,649 3,705,853

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

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.
pumped storage facility production minus energy used for pumping.
Through 1989, hydroelectric pumped storage is included in "Conventional Hydroelectric Power."
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). tire-derived fuels).

Solar thermal and photovoltaic (PV) energy.

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: • 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.

beginning in 1973.
Sources: See sources for Tables 7.2b and 7.2c.

Table 7.2b Electricity Net Generation: Electric Power Sector

(Subset of Table 7.2a; Million Kilowatthours)

		Fossil	Fuels						Renewab	le Energy			
						Hydro-	Conven- tional	Bior	mass				
	Coal ^a	Petro- leum ^b	Natural Gas ^c	Other Gases ^d	Nuclear Electric Power	electric Pumped Storage ^e	Hydro- electric Power ^f	Wood ^g	Wasteh	Geo- thermal	Solar/ PV ⁱ	Wind	Total ^j
1950 Total 1955 Total 1960 Total 1965 Total 1970 Total 1975 Total 1980 Total 1985 Total 1990 Total ^k	1,402,128	33,734 37,138 47,987 64,801 184,183 289,095 245,994 100,202 118,864	44,559 95,285 157,970 221,559 372,890 299,778 346,240 291,946 309,486	NA NA NA NA NA NA NA NA	0 518 3,657 21,804 172,505 251,116 383,691 576,862	(f) (f) (f) (f) (f) (f) (f) (f)	95,938 112,975 145,833 193,851 247,714 300,047 276,021 281,149 289,753	390 276 140 269 136 18 275 743	NA NA NA 220 174 158 640	NA NA 33 189 525 3,246 5,073 9,325 15,434	NA NA NA NA NA NA 11	NA NA NA NA NA NA NA	329,141 547,038 755,549 1,055,252 1,531,868 1,917,649 2,286,439 2,469,841 2,901,322
1995 Total	1,686,056 1,943,111 1,882,826 1,910,613 1,952,714 1,957,188 1,992,054 1,969,737 1,998,390 1,968,838 1,741,123 1,827,738	68,146 105,192 119,149 89,733 113,697 114,678 116,482 59,708 61,306 42,881 35,811 34,679 28,202	419,179 517,978 554,940 607,683 567,303 627,172 683,829 734,417 814,752 802,37 841,006 901,389 926,290	1,927 2,028 586 1,970 2,647 3,568 3,777 4,254 4,042 3,200 3,058 2,967 2,939	673,402 753,893 768,826 780,064 763,733 788,528 781,986 787,219 806,425 806,208 798,855 806,968 790,204	-2,725 -5,539 -8,823 -8,743 -8,535 -6,558 -6,558 -6,558 -6,288 -4,627 -5,501 -6,421	305,440 271,338 213,749 260,491 271,512 265,064 267,040 286,254 245,843 253,096 271,506 258,455 317,531	7,597 8,916 8,294 9,009 9,528 9,736 10,570 10,341 10,711 10,638 10,738 11,446 10,733	17,986 20,307 12,944 13,145 13,808 13,062 13,031 13,927 14,294 15,379 15,954 16,376 15,989	13,378 14,093 13,741 14,491 14,811 14,692 14,568 14,637 14,840 15,009 15,219 15,316	497 493 543 555 534 575 550 508 612 864 891 1,206 1,727	3,164 5,593 6,737 10,337 11,187 14,144 17,811 26,589 34,450 55,363 73,886 94,636 120,121	3,194,230 3,637,529 3,580,053 3,698,458 3,721,159 3,808,360 3,902,192 3,908,077 4,005,343 3,974,349 3,809,837 3,809,837 3,972,386 3,948,186
Policy January February March April May June July August September October November December Total	127,874 112,774 104,410 95,284 114,930 130,147 159,187 150,941 124,496 119,952 127,648 132,923 1,500,557	2,132 1,672 1,304 1,287 1,527 1,840 2,086 1,821 1,595 1,555 1,515 1,737 20,072	83,122 83,308 85,001 87,748 99,625 107,685 130,133 123,160 100,267 84,207 72,601 75,934 1,132,791	263 256 261 254 244 253 266 266 232 225 211 253 2,984	72,381 63,847 61,729 55,871 62,081 65,140 69,129 69,602 64,511 59,743 56,713 68,584 769,331	-348 -237 -281 -265 -371 -507 -619 -529 -431 -378 -409 -576 -4,950	22,830 20,041 25,672 26,113 28,427 26,482 22,880 17,443 16,306 18,518 22,795 273,859	971 912 892 716 813 935 1,047 1,060 949 876 911 968 11,050	1,353 1,250 1,353 1,317 1,386 1,369 1,444 1,432 1,362 1,422 1,389 1,478	1,263 1,193 1,285 1,248 1,304 1,277 1,321 1,304 1,300 1,329 1,347 1,390	91 129 221 305 445 508 492 445 439 415 335 339 4,164	13,624 11,045 14,019 12,702 12,535 11,967 8,818 8,465 8,785 12,628 11,642 14,517	326,186 296,790 296,498 283,182 323,599 347,760 400,315 381,494 321,586 298,905 293,046 320,996 3,890,358
Petruary September October November Total	137,168 122,759 129,790 111,221 118,735 137,631 151,994 148,684 132,449 120,361 120,290 141,097 1,572,179	2,428 1,799 1,766 1,644 2,136 2,089 2,561 2,201 1,871 1,682 1,673 2,245 24,094	79,820 72,491 76,346 70,014 75,479 90,813 111,040 111,354 93,574 80,497 75,197 83,337 1,019,962	244 198 220 226 274 284 323 321 303 295 333 325 3,345	71,406 61,483 62,947 56,767 62,848 66,430 70,539 71,344 65,799 63,184 64,975 71,294 789,017	-463 -300 -409 -288 -355 -355 -345 -454 -389 -320 -345 -402 -4,424	24,794 20,163 20,352 24,501 28,225 27,010 26,925 21,473 16,698 17,077 17,527 20,994 265,738	1,016 908 1,011 669 921 985 1,094 1,172 1,091 1,038 1,124 1,200 12,228	1,344 1,172 1,410 1,358 1,469 1,413 1,449 1,407 1,327 1,347 1,346 1,376	1,443 1,301 1,424 1,330 1,357 1,377 1,404 1,379 1,356 1,425 1,298 1,424 16,517	308 461 642 704 794 896 831 962 943 728 716 8,918	14,626 13,899 15,634 17,284 16,255 13,758 11,139 9,587 11,702 13,773 15,879 14,091 167,567	334,716 296,860 311,758 286,013 308,782 342,970 379,613 370,063 327,318 301,805 300,597 338,299 3,898,792
Page 11-Month Total	156,370 142,691 135,755 108,652 118,389 137,027 148,884 147,819 125,501 110,934 118,481 1,450,503	6,780 2,562 3,038 1,568 1,865 1,850 1,877 1,890 1,757 1,377 1,578 26,141	82,449 67,888 69,871 68,974 80,732 90,252 106,007 113,254 98,060 89,540 76,119 943,146	304 241 240 232 336 303 348 370 376 379 349 3,477	73,064 62,639 62,397 56,385 62,947 68,138 71,940 71,129 67,535 62,391 65,140 723,705	-263 -419 -398 -362 -603 -611 -467 -769 -505 -421 -506	21,268 17,179 24,034 24,889 26,241 25,654 24,094 19,579 16,828 18,419 233,894	1,263 1,112 1,225 937 1,017 1,272 1,286 1,302 1,211 1,208 1,258 13,091	1,281 1,098 1,343 1,317 1,355 1,315 1,427 1,438 1,345 1,388 1,390	1,396 1,257 1,376 1,359 1,385 1,336 1,364 1,357 1,342 1,373 1,388	754 841 1,321 1,565 1,831 2,008 1,826 1,890 1,879 1,662 1,360 16,937	17,977 13,991 17,767 18,733 15,520 15,676 12,085 10,178 11,463 14,540 18,980 166,909	363,189 311,554 318,574 284,793 311,611 344,815 371,291 370,060 326,261 301,790 304,559 3,608,497
2013 11-Month Total 2012 11-Month Total	1,431,082 1,367,634	21,849 18,335	936,625 1,056,858	3,019 2,731	717,723 700,748	-4,022 -4,374	244,744 251,064	11,028 10,082	15,040 15,078	15,093 14,172	8,202 3,825	153,476 126,232	3,560,493 3,569,362

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

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.
Pumped storage facility production minus energy used for pumping.
Through 1989, hydroelectric pumped storage is included in "Conventional Hydroelectric Power."
Whod and wood-derived fuels.
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). tire-derived fuels).

Solar thermal and photovoltaic (PV) energy.

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: • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • See Note 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.

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)

		Com	mercial Se	ectora					Industria	al Sector ^b			
•	Coalc	Petro- leum ^d	Natural Gas ^e	Biomass Waste ^f	Total ^g	Coal ^c	Petro- leum ^d	Natural Gas ^e	Other Gases ^h	Hydro- electric Power	Bion Wood ^j	nass Waste ^f	Total ^k
1950 Total 1955 Total 1955 Total 1960 Total 1966 Total 1970 Total 1977 Total 1988 Total 1988 Total 1999 Total 1990 Total 1990 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2008 Total 2008 Total 2009 Total 2008 Total 2009 Total 2009 Total	NA NA NA NA NA NA NA 1,097 999 1,206 1,340 1,340 1,340 1,341 1,261 1,096 1,1096	NA NA NA NA NA NA NA NA 432 438 431 423 499 375 235 189 142 163 124 89	NA NA NA NA NA NA NA 3,272 5,162 4,262 4,434 4,310 3,899 3,969 4,249 4,355 4,257 4,188 4,225 5,487	NA NA NA NA NA NA NA NA 1,519 1,985 1,007 1,053 1,289 1,562 1,657 1,599 1,534 1,748 1,672 2,315	NA NA NA NA NA NA NA NA 5.837 7,416 7,416 7,416 7,416 8,270 8,270 8,371 8,273 8,165 8,165 8,165 8,169	NA NA NA NA NA NA 21,107 22,372 22,056 20,135 21,525 19,817 19,773 19,466 19,464 16,694 15,703 13,686 18,441 14,490	NA NA NA NA NA NA 7,008 6,030 1,285 5,967 5,285 5,967 4,223 4,243 3,219 2,963 2,258 1,891	NA NA NA NA NA NA NA NA 79,751 79,751 78,795 79,013 79,752 77,669 77,569 77,569 77,548 81,583 81,911	NA NA NA NA NA NA NA NA 9,641 11,942 8,454 9,493 12,953 11,684 9,687 9,923 9,411 8,507 7,574 8,348 8,624	4,946 3,261 3,607 3,134 3,106 3,161 2,975 5,304 4,135 3,145 3,825 4,222 3,248 4,222 3,248 1,676 1,676 1,868 1,668	NA NA NA NA NA NA NA 25,379 28,865 26,888 29,643 27,988 28,367 28,287 26,641 25,292 26,641 25,292 26,691	NA NA NA NA NA NA NA NA 949 900 839 596 846 715 797 733 572 631 821 740 869 917	4,946 3,261 3,607 3,134 3,124 3,161 3,161 130,830 151,025 156,673 149,175 152,580 153,925 144,739 148,254 143,128 137,113 132,329 144,082 141,875
2012 January	83 81 74 66 69 79 83 81 66 57 77 883	15 16 12 17 12 21 19 19 15 20 16 16	543 531 537 510 541 585 716 620 537 513 488 483 6,603	186 182 188 187 193 180 198 208 196 200 199 203 2,319	916 900 911 888 930 975 1,135 1,046 930 904 876 888 11,301	1,135 1,017 1,041 935 984 1,035 1,189 1,159 1,026 990 1,012 1,079	330 214 225 199 191 207 234 279 250 229 280 283 2,922	7,096 6,771 6,713 6,571 7,186 7,327 8,013 7,956 7,209 7,006 7,080 7,573 86,500	754 788 815 803 758 719 776 784 672 670 664 709 8,913	275 240 234 178 212 175 137 152 159 192 213 186 2,353	2,340 2,197 2,140 1,986 2,122 2,144 2,303 2,308 2,277 2,235 2,277 2,394 26,725	62 72 82 79 75 62 79 85 68 94 96 93	12,425 11,699 11,681 11,158 11,988 12,091 13,190 13,160 12,069 11,841 12,052 12,751 146,107
2013 January	76 83 72 55 67 75 77 66 54 51 69 799	34 25 16 16 17 27 17 16 16 30 248	558 503 516 440 491 512 606 587 543 500 528 566 6,351	202 184 217 195 200 205 213 218 212 218 209 222 2,496	980 904 955 841 909 948 1,065 1,041 972 923 923 928 1,014 11,480	1,020 986 1,099 956 1,097 1,142 1,233 1,125 1,075 1,059 1,090 1,138 13,020	246 150 229 227 256 235 251 251 221 185 117 151 2,521	7,634 6,880 7,419 6,674 7,093 7,192 7,628 7,539 6,984 7,052 7,385 7,873 87,352	755 678 769 700 785 731 827 823 734 671 731 722 8,926	317 345 298 253 320 295 312 235 230 228 204 326 3,363	2,406 2,230 2,359 2,029 2,218 2,300 2,429 2,412 2,303 2,288 2,285 2,418 27,678	86 79 81 81 78 84 88 92 85 95 97 98 1,044	12,795 11,671 12,589 11,220 12,143 12,306 13,121 12,864 12,003 11,955 12,227 13,044 147,937
2014 January	105 97 88 62 57 68 69 54 49 37 54 740	128 44 46 17 16 14 16 14 17 17	564 516 514 488 495 535 581 596 566 537 515 5,907	213 177 204 210 200 204 226 211 199 197 2,266	1,137 943 995 934 937 998 1,069 1,069 1,066 940 928 10,955	1,225 1,121 1,162 971 1,038 1,146 1,180 1,132 1,084 995 1,000 12,054	222 182 199 145 125 159 144 150 131 100 129 1,685	7,476 6,583 7,121 6,514 6,473 6,679 7,328 7,326 6,901 6,619 6,980 75,999	643 519 605 546 590 657 733 702 730 649 671 7,046	344 247 205 181 197 196 172 204 190 220 226 2,383	2,367 2,154 2,342 2,279 2,347 2,353 2,494 2,403 2,245 2,230 2,271 25,484	89 69 82 82 73 78 84 75 84 87	12,694 11,166 12,026 11,039 11,182 11,607 12,478 12,366 11,709 11,242 11,689 129,198
2013 11-Month Total 2012 11-Month Total	730 806	218 181	5,785 6,120	2,275 2,116	10,467 10,413	11,882 11,524	2,369 2,638	79,479 78,927	8,203 8,204	3,037 2,167	25,260 24,331	946 856	134,893 133,355

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

plants.

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

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

c Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.

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, photovoltaic (PV) energy, wind, wood, and other, which are not separately displayed.

displayed.

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

fossil fuels. Through 2010, also includes propane gas.

! Conventional hydroelectric power.

! 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).

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

NA=Not available.
Notes: • See Note 1, "Coverage of Electricity Statistics," and Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of section.

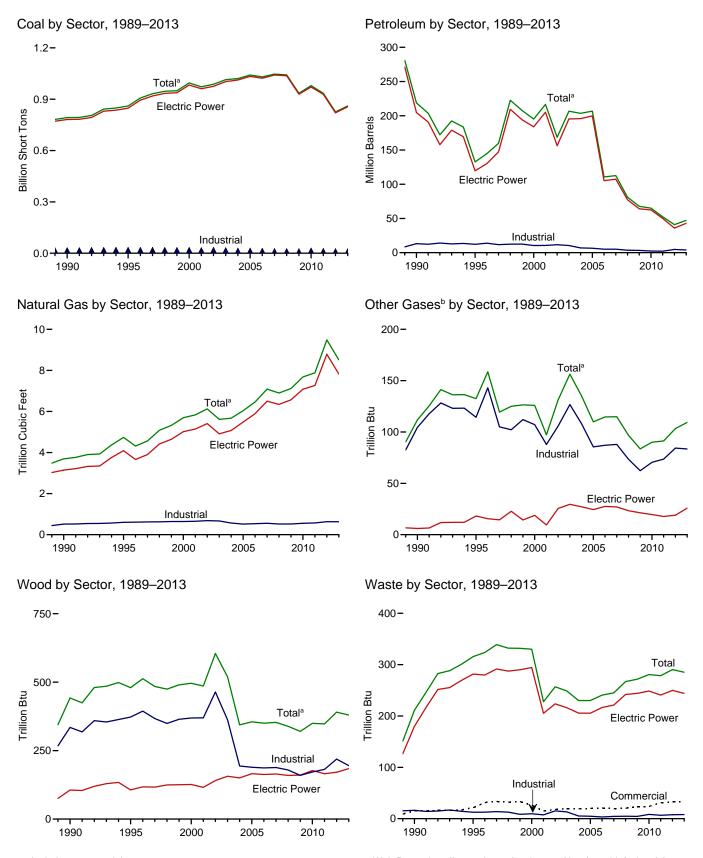
• Totals may not equal sum of components due to independent rounding.

• 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 7.3 Consumption of Selected Combustible Fuels for Electricity Generation



^a Includes commercial sector.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#electricity. Sources: Tables 7.3a–7.3c.

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

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

				Petroleum					Bion	nass	
	Coala	Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Totale	Natural Gas ^f	Other Gases ^g	Woodh	Waste ⁱ	Other ^j
	Thousand Short Tons	Tì	nousand Barre	els	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillio	n Btu	
1950 Total 1955 Total 1960 Total 1965 Total 1970 Total 1977 Total 1980 Total 1985 Total 1985 Total 1995 Total 1995 Total 2001 Total 2001 Total	91,871 143,759 176,685 244,788 320,182 405,962 569,274 693,841 792,457 860,594 994,933 972,691 987,583	5,423 5,412 3,824 4,928 24,123 38,907 19,655 18,143 19,615 31,675 31,150 23,286	69,998 69,862 84,371 110,274 311,381 467,221 391,163 158,779 190,652 95,507 143,381 165,312 109,235	NA NA NA NA NA NA 437 680 1,450 855 1.894	NA NA NA 636 70 179 231 1,914 3,355 3,744 3,871 6,836	75,421 75,274 88,195 115,203 338,686 506,479 421,110 174,571 218,800 132,578 195,228 216,672 168,597	629 1,153 1,725 2,321 3,932 3,158 3,682 3,044 3,692 4,738 5,691 5,832 6,126	NA NA NA NA NA NA 112 133 126 97 131	5 3 2 3 1 (s) 3 8 442 480 496 486 605	NA NA NA NA 2 2 2 7 211 316 330 228 257	NA NA NA NA NA NA 42 46 160
2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2008 Total 2009 Total 2010 Total 2011 Total	967,503 1,014,058 1,020,523 1,041,448 1,030,556 1,046,795 1,042,335 934,683 979,684 934,938	29,672 29,672 20,163 20,651 13,174 15,683 12,832 12,658 14,050 11,231	109,235 142,518 142,088 141,518 58,473 63,833 38,191 28,576 23,997 14,251	2,947 2,856 2,968 2,174 2,917 2,822 2,328 2,056 1,844	6,333 7,677 8,330 7,363 6,036 5,417 4,821 4,994 5,012	106,597 206,653 203,494 206,785 110,634 112,615 80,932 67,668 65,071 52,387	5,126 5,616 5,675 6,036 6,462 7,089 6,896 7,121 7,680 7,884	131 156 135 110 115 115 97 84 90	519 344 355 350 353 339 320 350 348	257 249 230 230 241 245 267 272 281 279	191 193 183 173 172 168 172 170 184 205
2012 January February March April May June July August September October November December Total	70,744 62,974 57,468 51,806 62,801 71,656 86,516 82,676 69,478 66,486 69,913 73,217 825,734	856 666 627 701 885 877 954 752 656 703 749 857 9,285	1,019 775 889 811 850 1,305 1,585 1,134 839 912 804 832	57 103 114 100 129 137 143 128 95 107 94 357 1,565	476 363 226 212 255 280 307 338 314 280 314 308 3,675	4,315 3,358 2,762 2,674 3,140 3,719 4,220 3,704 3,161 3,124 3,215 3,585 40,977	677 672 704 742 843 912 1,118 1,039 835 700 612 630 9,485	9 9 9 9 9 8 8 9 9 8 8 8 8 8 103	35 33 31 28 30 32 35 35 33 32 32 32 35	24 22 24 23 24 25 25 25 25 26 290	17 16 17 16 18 18 18 17 17 17 17
2013 January	74,985 67,141 70,395 60,899 64,737 75,178 83,223 81,984 72,704 66,359 65,902 77,283 860,790	1,014 676 654 661 816 681 1,085 693 661 606 733 1,016 9,294	1,569 1,010 832 827 817 903 1,466 979 831 801 744 1,174	231 134 96 110 116 92 156 103 110 87 106 163 1,505	382 313 371 347 475 481 480 495 452 408 309 378 4,893	4,726 3,386 3,435 4,123 4,082 5,108 4,251 3,862 3,535 4,245 4,245	660 593 632 587 641 765 939 929 777 665 629 694 8,512	9 8 9 8 10 9 10 9 9 10 9	32 29 32 25 30 32 34 35 32 32 32 33 35 380	23 21 24 23 24 24 25 24 23 24 23 26 285	14 13 15 14 15 16 16 16 15 15 14 16
2014 January February March April May June July August September October November 11-Month Total		4,918 1,294 1,469 599 783 681 656 708 668 619 833 13,225	4,426 1,552 1,759 782 678 743 920 977 825 763 722 14,147	1,032 179 294 81 83 52 91 81 95 98 80 2,167	446 376 439 313 384 409 369 356 224 281 3,967	12,607 4,905 5,718 3,028 3,464 3,521 3,514 3,610 3,368 2,599 3,042 49,376	689 573 585 575 673 745 870 923 797 727 627 7,786	9 7 8 7 9 10 10 10 9 9	36 33 36 31 33 36 37 37 34 34 35	23 20 24 23 23 23 25 25 24 24 24 28	14 12 15 14 15 15 16 16 15 15 15
2013 11-Month Total 2012 11-Month Total	783,506 752,517	8,279 8,428	10,777 10,924	1,342 1,208	4,514 3,367	42,969 37,392	7,818 8,855	100 95	345 356	259 265	166 187

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

tire-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).

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 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. • 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

Independent routining. • Coogs. First 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 sources for Tables 7.3b and 7.3c.

synfuel.

b Fuel oil nos. 1, 2, and 4. For 1949–1979, data are for gas turbine and internal

Ext. 1990–2000, electric utility data also include 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,

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

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

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

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

Nouncipal 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

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

				Petroleum					Bion	nass	
	Coal ^a	Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Totale	Natural Gas ^f	Other Gases ^g	Wood ^h	Waste ⁱ	Other ^j
	Thousand Short Tons	Tł	nousand Barre	els	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillio	n Btu	
1950 Total 1955 Total 1960 Total 1960 Total 1960 Total 1960 Total 1970 Total 1970 Total 1970 Total 1980 Total 1980 Total 1980 Total 2080 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2007 Total 2008 Total 2009 Total 2001 Total 2011 Total	91,871 143,759 176,685 244,788 320,182 405,962 569,274 693,841 781,301 847,854 982,713 961,523 975,251 1,003,036 1,012,459 1,033,567 1,022,802 1,041,346 1,036,891 929,692 971,245 928,857	5,423 5,412 3,824 4,928 24,123 38,907 19,051 14,635 16,394 18,066 29,722 29,056 21,810 27,441 18,793 19,450 12,578 15,135 12,318 11,848 13,677 10,961	69,998 69,862 84,371 110,274 311,381 467,221 391,163 158,779 183,285 88,895 138,047 159,150 104,577 137,361 138,337 56,347 62,072 37,222 27,768 23,560 13,861	NA NA NA NA NA NA NA 25 441 403 374 1,937 2,511 1,783 2,496 2,608 2,110 1,848 1,655	NA NA NA NA 636 70 179 231 1,008 2,452 3,155 3,308 5,705 5,719 7,137 6,905 5,523 5,000 4,485 4,679 4,726	75,421 75,274 88,195 115,203 338,686 506,479 421,110 174,571 204,745 119,663 183,946 205,119 156,154 195,336 195,809 199,760 105,235 107,316 77,149 64,151 62,477 50,105	629 1,153 1,725 2,321 3,932 3,158 3,682 3,044 3,147 4,094 5,014 5,142 5,408 4,909 5,075 5,485 5,891 6,502 6,342 6,567 7,085 7,265	NA NA NA NA NA NA NA 18 19 9 25 30 27 24 28 27 23 21 20 18	5 3 2 3 1 (s) 3 8 106 106 126 116 150 166 163 165 159 160	NA NA NA NA NA 2 2 2 7 180 282 294 205 224 216 206 205 216 221 242 244 249 241	NA NA NA NA NA NA (s) 2 2 1 1 109 137 136 131 116 117 117 112 115 116
2012 January February March April May June July August September October November December Total	70,305 62,572 57,053 51,427 62,417 71,251 86,036 82,209 69,074 66,104 69,521 72,791 820,762	809 649 607 683 868 853 926 726 634 681 728 835	965 735 848 778 803 1,278 1,547 1,099 807 868 769 795	38 80 93 82 112 121 127 110 80 88 78 331 1,339	389 307 168 157 200 222 244 257 241 220 229 226 2,861	3,759 2,997 2,388 2,328 2,784 3,364 3,821 3,222 2,726 2,735 2,722 3,092 35,937	621 619 650 689 785 852 1,052 974 777 644 556 571 8,788	2 2 2 2 2 2 2 2 1 1 1 1 2 19	15 14 14 11 13 15 16 16 15 13 14 15	20 19 20 20 21 21 22 22 20 21 21 21 22	11 10 11 10 11 11 12 12 11 11 11 11 11
2013 January February March April May June July August September October November December Total	74,596 66,767 69,973 60,534 64,318 74,740 82,750 81,553 72,293 65,968 65,509 76,857 855,856	987 658 636 639 796 662 1,053 668 643 587 716 998	1,497 963 801 801 785 871 1,419 949 807 776 718 1,121 11,507	218 129 88 100 99 86 148 95 101 82 97 150 1,393	323 284 305 281 403 412 410 426 387 356 279 342 4,207	4,317 3,171 3,052 2,943 3,696 3,677 4,669 3,842 3,486 3,226 2,925 3,978 42,981	600 538 574 535 586 708 878 869 723 610 571 633 7,825	2 1 2 2 2 2 2 2 2 3 3 2 2 3 3 2 2 2	15 14 15 10 14 15 17 16 16 17 18	20 17 20 20 21 21 22 20 20 20 20 20 23 244	10 9 11 10 11 11 11 11 11 10 10 12
2014 January February March April July June July August September October November 11-Month Total	83,248 75,927 71,881 58,381 63,702 74,140 81,179 80,771 68,870 61,007 64,310 783,415	4,833 1,263 1,439 578 766 665 634 687 648 595 806	4,219 1,474 1,678 758 653 715 893 951 802 744 694	1,013 167 279 77 76 45 85 69 87 92 69 2,059	404 332 389 267 349 372 338 337 330 201 255 3,574	12,087 4,564 5,342 2,748 3,241 3,284 3,302 3,391 3,184 2,438 2,842 46,423	631 521 529 524 621 693 813 867 743 676 573 7,191	3 2 2 2 3 3 4 4 4 4 3 3 3 3 3	19 18 19 15 16 19 19 19 18 18 19	20 17 20 20 20 20 22 21 20 20 20 20 20	10 9 11 10 11 11 11 11 11 10 10
2013 11-Month Total 2012 11-Month Total	778,999 747,971	8,046 8,165	10,386 10,497	1,243 1,008	3,866 2,635	39,003 32,846	7,192 8,217	23 17	166 156	221 228	115 121

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

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 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. • 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.

Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.
 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.
 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.
 Jet fuel, kerosene, other petroleum liquids, waste oil, and, beginning in 2011, propage

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.

[&]quot;Wood and wood-derived tuels.

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).

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

		Commerci	ial Sectora				Indu	strial Sector	b		
			Notural	Biomass			Notural	Othor	Bion	nass	
	Coal ^c	Petroleum ^d	Natural Gas ^e	Waste ^f	Coalc	Petroleum ^d	Natural Gas ^e	Other Gases ^g	Woodh	Waste ^f	Other ⁱ
	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet	Trillion Btu	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillion	n 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 2001 Total	514 532	823 1.023	37 36	26 15	11,706 10.636	10,459 10.530	640 654	107 88	369 370	10 7	45 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	333 258	35 34	21	7,408	5,066	536	87	187	3	45 41
2007 Total 2008 Total	361 369	166	34 33	19 20	5,089 5.075	5,041 3.617	554 520	88 73	188 179	4 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 January	29	29	5	3	410	528	51	7	19	1	4
February	27	19	5	3	374	342	49	7	18	1	4
March	26 23	17 17	5 5	3 3	388 356	357 329	48 48	8 7	17 17	1	4 4
April May	23 22	25	5 5	3	361	332	53	7	17	1	5
June	26	24	6	3	379	332	55	7	18	i	4
July	28	33	7	3	452	367	59	7	19	1	5
August	28	28	6	3	439	454	59	7	19	1	5
September	24	19	5	3	381	417	53	7	18	1	4
October November	21 25	22 24	5 4	3 3	361 366	366 469	52 51	6 6	18 19	1	4 5
December	27 27	24	4	3	398	469	55	7	20	i	4
Total	307	279	63	33	4,665	4,761	633	84	219	8	54
2013 January	31	54	5	3	359	355	55	7	17	1	3
February	28	32	5	3	347	183	50	6	16	1	3
March	29	15	5	3	393	368	53	7	16	1	3
April May	23 26	17 19	4 5	3 3	342 394	374 408	48 50	6 7	15 16	1	3
June	28	21	5	3	410	384	52	7	17	i	3
July	28	42	6	3	444	397	55	8	17	1	3
August	26	20	6	3	404	388	55	8	17	1	4
September	23 20	18	5	3 3	388	357	50	7	16	1	3
October November	20	15 17	5 5	3	371 371	294 185	50 53	6 7	16 16	1	3
December	25 25	41	5	3	401	225	56	6	17	1	3
Total	309	312	60	33	4,624	3,921	628	84	195	8	37
2014 January	34	210	5	3	429	310	53	6	16	1	3
February	32	68	5	2	391	272	47	5	15	1	2
March	29 21	72 20	5 5	3 3	410 344	304 260	51 46	6 5	17 16	1	3
April May	20	20 20	5 5	ა ვ	375	203	46 47	5 6	17	1	3
June	24	19	5	3 3	415	218	48	6	17	i	3
July	24	19	5	3	428	192	52	6	18	1	3
August	22	20	6	3 3	418	200	51	6	18	1	3 3
September	22	18	5	3	401	166	49	6	16	1	3
October November	19 23	18 21	5 5	3 3	364 355	143 179	46 50	6 6	16 16	1	3
11-Month Total	270	505	55	30	4,331	2,448	540	63	182	7	33
2013 11-Month Total	284	270	54	30	4,223	3,696	572	77	178	7	34
2012 11-Month Total	279	255	59	30	4,267	4,292	579	78	199	7	49

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

petroleum, waste oil, and, beginning in 2011, propane.

^e Natural gas, plus a small amount of supplemental gaseous 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 fuels consumed to produce electricity. Through 1988, data are not available. • 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.

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." • 2008 forward: EIA, Form EIA-923, "Power Plant Operations Report."

plants.

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

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

synfuel.

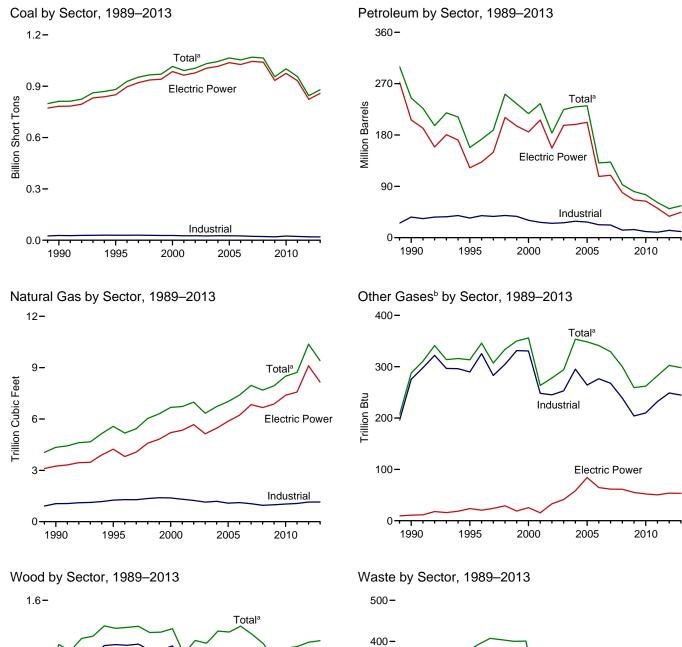
d Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other

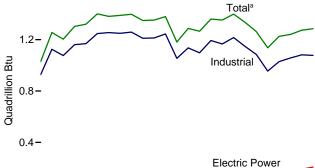
f Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

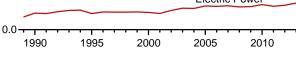
g Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.

h Wood and wood-derived fuels.

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

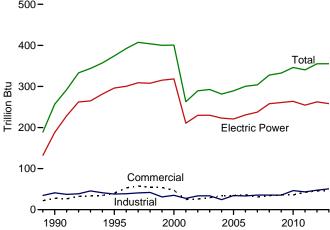






^a Includes commercial sector.

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



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)

				Petroleum					Bion	nass	
	Coala	Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Totale	Natural Gas ^f	Other Gases ^g	Woodh	Waste ⁱ	Other ^j
	Thousand Short Tons	Ti	nousand Barre	els	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillio	n Btu	
1950 Total 1955 Total 1960 Total 1965 Total 1970 Total 1975 Total 1980 Total 1985 Total 1990 Total ^k 1995 Total	143,759 176,685 244,788 320,182 405,962 569,274 693,841 811,538	5,423 5,412 3,824 4,928 24,123 38,907 29,051 14,635 20,194 21,697	69,998 69,862 84,371 110,274 311,381 467,221 391,163 158,779 209,081 112,168	NA NA NA NA NA NA 1,332	NA NA NA 636 70 179 231 2,832 4,590	75,421 75,274 88,195 115,203 338,686 506,479 421,110 174,571 244,765 158,140	629 1,153 1,725 2,321 3,932 3,158 3,682 3,044 4,346 5,572	NA NA NA NA NA NA 288 313	5 3 2 3 1 (s) 3 8 1,256 1,382	NA NA NA NA 2 2 2 7 7 257 374	NA NA NA NA NA NA NA 86
2000 Total 2001 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2008 Total 2009 Total 2010 Total 2011 Total	1,015,398 991,635 1,005,144 1,031,778 1,044,798 1,065,281 1,053,783 1,069,606 1,064,503 955,190 1,001,411	34,572 33,724 24,749 31,825 23,520 24,446 14,655 17,042 14,137 14,800 15,247 11,735	156,673 177,137 118,637 152,859 157,478 156,915 69,846 74,616 43,477 33,672 26,944 16,877	2,904 1,418 3,257 4,576 4,764 4,270 3,396 4,237 3,765 3,218 2,777 2,540	4,669 4,532 7,353 7,067 8,721 9,113 8,622 7,299 6,314 5,828 6,053 6,092	217,494 234,940 183,409 224,593 229,364 231,193 131,005 132,389 92,948 80,830 75,231 61,610	6,677 6,731 6,986 6,337 6,727 7,021 7,404 7,962 7,689 7,938 8,502 8,724	356 263 278 294 353 348 341 329 300 259 262 282	1,380 1,182 1,287 1,266 1,360 1,353 1,399 1,336 1,263 1,137 1,226 1,241	401 263 289 293 282 289 300 304 328 333 346 340	109 229 252 262 254 237 247 239 212 228 237 261
Pebruary February March April May June July August September October November December Total	64,771 59,077 53,176 64,319 73,142 88,115 84,307 70,951 68,030 71,512 74,901	1,119 726 670 736 914 919 986 779 685 735 781 896 9,945	1,251 907 1,019 936 998 1,437 1,734 1,286 970 1,104 956 974 13,571	117 154 208 152 181 178 185 171 130 154 138 418 2,185	605 470 335 299 346 380 426 471 430 397 435 426 5,021	5,510 4,139 3,570 3,320 3,825 4,434 5,034 4,590 3,935 3,979 4,052 4,416 50,805	752 742 774 813 916 987 1,201 1,119 907 771 681 706	26 26 27 27 26 25 26 23 23 23 23 25 302	110 104 103 96 103 104 109 111 107 106 107 112 1,273	29 27 30 28 29 28 30 30 28 31 32 33 355	21 20 20 20 22 22 22 22 21 21 21 21 21 25 252
2013 January	68,685 72,066 62,367 66,235 76,646 84,745 83,487 74,138 67,909 67,487 78,938	1,079 733 711 721 870 737 1,148 759 701 647 778 1,062 9,946	1,745 1,185 983 988 986 1,060 1,633 1,134 969 950 887 1,352 13,871	274 158 124 150 155 119 180 127 139 110 130 207 1,872	525 440 476 451 526 538 551 562 520 517 420 511 6,037	5,724 4,278 4,196 4,115 4,639 4,605 5,715 4,831 4,411 4,292 3,885 5,174 55,874	740 664 708 659 714 835 1,013 1,006 849 738 704 777 9,407	25 23 25 24 25 24 27 26 25 25 24 25 28	111 99 108 96 103 106 117 112 105 106 109 114 1,286	30 27 30 28 29 30 31 29 28 30 29 33 355	17 16 18 17 18 18 19 18 18 17 16 18
2014 January	77,935 74,028 60,223 65,543 75,963 83,073 82,640 70,660 62,744 66,086 804,306	5,145 1,372 1,541 657 827 730 711 759 705 654 885 13,987	4,781 1,776 1,978 931 831 908 1,076 1,123 939 904 878 16,125	1,125 218 341 98 1111 78 112 117 121 120 123 2,565	530 429 499 368 407 428 467 473 460 311 373 4,745	13,703 5,514 6,356 3,524 3,802 3,856 4,234 4,363 4,066 3,233 3,753 56,404	772 651 662 645 742 815 941 998 867 797 699 8,589	24 22 23 22 23 24 26 25 25 24 24 263	110 101 109 105 109 112 115 117 108 111 111 1,208	29 25 30 28 28 28 31 30 29 29 30 317	17 14 17 17 17 18 18 18 18 17 17

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

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.

 NAtes: 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.

beginning in 1973.
Sources: See sources for Tables 7.4b and 7.4c.

Full 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 no. 4. oil no. 4.
d Jet fuel, kerosene, other petroleum liquids, waste oil, and, beginning in 2011,

<sup>Get fuel, kerioseire, outer personant.

Propane.

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

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

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

Wood and wood-derived fuels.

Municipal solid waste from biogenic sources, landfill gas, sludge waste, includes a solid waste from biogenic sources.</sup>

[&]quot;Wood and wood-derived lides."

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

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

				Petroleum					Bion	nass	
	Coala	Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Totale	Natural Gas ^f	Other Gases ^g	Woodh	Waste ⁱ	Other ^j
	Thousand Short Tons	TI	nousand Barre	els	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillio	n Btu	
1950 Total 1955 Total 1960 Total 1960 Total 1965 Total 1976 Total 1977 Total 1978 Total 1980 Total 1980 Total 1980 Total 1980 Total 2001 Total 2001 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2007 Total 2007 Total 2008 Total 2009 Total 2008 Total 2008 Total 2008 Total 2008 Total 2009 Total 2008 Total 2009 Total 2010 Total	91,871 143,759 176,685 244,788 320,182 405,962 405,962 405,962 693,841 782,567 850,230 985,821 964,433 977,507 1,005,116 1,016,268 1,026,636 1,045,141 1,040,580 933,627 975,052 932,484	5,423 5,412 3,824 4,928 24,123 38,907 29,051 14,635 16,567 18,553 30,016 29,274 21,876 27,632 19,107 19,675 12,646 15,327 12,547 12,035 13,790 11,021	69,998 69,862 84,371 110,274 311,381 467,221 391,163 158,779 184,915 90,023 138,513 159,504 104,773 138,279 139,816 139,409 57,345 63,082 38,241 28,782 24,503 14,803	NA NA NA NA NA NA NA 26 499 454 377 1,267 2,026 2,713 2,685 1,870 2,594 2,670 2,210 1,877 1,658	NA NA NA NA 636 670 1791 1,008 2,674 3,275 3,427 5,816 5,799 7,372 8,083 7,101 5,683 5,119 4,611 4,777 4,837	75,421 75,274 88,195 115,203 338,686 506,479 421,110 174,571 206,550 122,447 185,35 8206,291 156,996 196,932 198,498 202,184 107,365 109,431 79,056 66,081 64,055 51,667	629 1,153 1,725 2,321 3,932 3,932 3,044 4,237 5,206 5,342 5,672 5,135 5,464 6,822 6,813 7,337 7,574	NA NA NA NA NA NA 11 24 25 33 41 58 84 65 61 55 52 50	5 3 2 3 1 (s) 3 8 129 125 134 126 150 167 167 165 185 186 177 180	NA NA NA NA NA 2 2 2 7 7 188 296 318 211 230 223 223 221 231 237 258 264 255	NA NA NA NA NA NA NA 113 143 143 125 124 131 124 131
2012 January February March April May June July August September October November December Total		834 667 610 686 873 856 931 729 637 685 732 839	1,057 796 898 841 883 1,364 1,624 1,178 884 951 850 877	38 80 93 82 112 121 127 110 80 88 78 331	400 318 178 166 211 228 253 267 250 229 238 236 2,974	3,930 3,131 2,493 2,439 2,924 3,481 3,949 2,852 2,866 2,851 3,226 37,495	649 645 674 714 812 880 1,082 1,004 803 669 580 600 9,111	5 4 5 5 4 4 4 5 5 4 4 4 5 5 5 4 4 5 5 5 4 5	17 16 16 13 14 16 18 18 16 15 15	22 20 22 21 22 22 23 23 21 22 23 24 24	12 11 12 11 12 12 13 12 12 12 12 12
2013 January	74,798 66,944 70,214 60,725 64,544 74,964 82,986 81,788 72,493 66,163 65,688 77,043 858,351	997 672 644 646 803 668 1,059 673 648 593 722 1,005 9,131	1,547 1,028 882 882 870 950 1,503 8,503 8,95 866 799 1,207 12,464	218 129 88 101 99 86 148 95 101 82 97 150 1,394	333 293 315 291 412 418 419 436 395 366 288 351 4,317	4,429 3,293 3,190 3,084 3,830 3,794 4,805 3,980 3,618 3,370 3,060 4,117 44,572	629 565 601 561 613 734 906 898 749 636 598 662 8,153	4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5	17 15 17 12 16 17 19 20 18 18 19 20 20 207	22 19 22 21 22 22 22 21 21 22 21 24 24	11 10 11 11 12 12 13 12 11 11 11 11 12
2014 January February March April May June July August September October November J1-Month Total	83,459 76,144 72,127 58,592 63,896 74,343 81,379 80,951 69,034 61,163 64,478 785,564	4,914 1,280 1,449 584 772 670 639 692 652 601 813	4,275 1,549 1,765 837 737 798 983 1,041 862 834 781	1,050 167 286 78 76 45 85 70 87 92 69 2,104	413 339 397 276 357 372 343 345 338 210 264 3,654	12,302 4,690 5,487 2,878 3,371 3,372 3,421 3,528 3,291 2,578 2,980 47,901	662 554 557 549 647 719 840 895 769 702 599 7,492	4 3 3 3 3 4 4 5 5 5 5 5 5 5 48	22 20 22 18 19 23 22 22 20 20 21 229	21 18 21 21 21 21 23 22 21 22 22 22	11 9 12 11 11 11 12 12 11 11 11 11
2013 11-Month Total 2012 11-Month Total	781,308 750,542	8,126 8,242	11,257 11,326	1,244 1,009	3,966 2,739	40,455 34,269	7,491 8,511	49 49	187 174	234 239	124 131

a Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal

tire-derived fuels)

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: • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • See Note 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.

^a Anthracite, brumilitous coal, substantinuos coal, supplied and internal 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,

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

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

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

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

Wood and wood-derived fuels.

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

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

		Commerc	ial Sector ^a				Indu	strial Sector	b		
			Natural	Biomass			Network	045	Biom	nass	
	Coalc	Petroleumd	Natural Gas ^e	Waste ^f	Coalc	Petroleumd	Natural Gas ^e	Other Gases ^g	Woodh	Waste ^f	Other ⁱ
	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet	Trillion Btu	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillion	Btu	
4000 T-4-1	4.404	0.050	46		07.704	20.450	4.055	075	4.405	44	00
1990 Total	1,191 1,419	2,056 1,245	46 78	28 40	27,781 29,363	36,159 34,448	1,055 1,258	275 290	1,125 1,255	41 38	86 95
2000 Total	1,547	1,615	85	47	28,031	30,520	1,386	331	1,244	35	108
2001 Total 2002 Total	1,448 1,405	1,832 1,250	79 74	25 26	25,755 26,232	26,817 25,163	1,310 1,240	248 245	1,054 1,136	27 34	101 92
2003 Total	1,403	1,449	58	29	24,846	26,212	1,144	253	1,130	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 1,927	935 752	68 70	36 31	25,262	22,706	1,115	277 268	1,216 1,148	33 36	102 98
2007 Total 2008 Total	2,021	671	66	34	22,537 21,902	22,207 13,222	1,050 955	239	1,146	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 January	155	87	9	4	2,015	1,493	94	21	94	3	7
February	135	29 31	9	4	1,832	979 1.047	89 91	21 22	88	4 5	7
March April	128 102	19	9	4	1,684 1,481	1,047	90	22	87 83	5 4	6
May	108	27	9	4	1,563	873	95	22	89	3	6 7 7
June	109	28	10	4	1,553	925	98	21	88	3	7
July	120	61	12	4	1,712	1,024	107	21	92	3	7
August	120	41	11 9	4	1,703	1,197	105	22 19	93 91	3	7
September October	107 101	27 31	9	4	1,535 1,587	1,056 1,082	96 94	18	91	5	6 7
November		38	8	4	1,649	1.163	93	19	92	5	7
December	141	39	8	4	1,751	1,151	98	21	96	5	7
Total	1,450	457	111	45	20,065	12,853	1,149	249	1,082	47	81
2013 January	148	86	9	4	1,728	1,208	102	21	94	5	4
February	139 136	54 29	9	4	1,601 1,716	930 976	91 98	19 21	84 91	4	4 4
March April	108	26	8	4	1,533	1,005	90	20	83	4	4
May	114	30	8	4	1,577	779	93	21	87	4	3
June	105	32	8	4	1,576	779	93	20	89	4	4
July	103	61	10	4	1,656	849	97	22	98	4	4
August	105	36 33	10 8	4 4	1,594	816 759	98 91	21 20	92 87	4 4	4
September October	100 98	33 28	8	4	1,545 1,647	759 894	91	20	87 88	4	4
November	120	30	9	4	1,679	805	97	19	90	4	4
December	134	69	10	4	1,760	988	105	20	94	5	3
Total	1,412	514	107	46	19,613	10,788	1,147	245	1,077	51	46
2014 January	149	318	10	4	1,803	1,083	101	20	88	4	4
February March	147 142	110 117	9	3 4	1,644 1,759	714 752	88 96	18 20	80 87	4	3
April	111	34	8	4	1,739	611	88	18	88	4	4
May	94	32	8	4	1,553	398	86	19	90	4	4
June	90	28	9	4	1,530	456	88	20	89	4	4
July	100	29	9	4	1,594	784 70 <i>5</i>	92 94	21	93	4	4
August September	92 92	40 34	10 9	4	1,597 1,534	795 741	94 89	20 20	94 88	4	4
October	89 89	31	9	4	1,534	623	87	19	91	4	4
November	115	39	9	4	1,493	733	91	19	90	4	4
11-Month Total	1,223	812	97	41	17,520	7,691	1,000	215	977	44	41
2013 11-Month Total 2012 11-Month Total	1,278 1,309	445 418	96 103	42 41	17,853 18,314	9,801 11,702	1,042 1,051	224 228	983 986	46 42	43 74

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

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: • 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 Pane: See http://www.eia.gov/totalenergv/data/monthly/#electricity (Excel

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." • 2008 forward: EIA, Form EIA-923, "Power Plant Operations Report."

plants.

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

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

synfuel.

d Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other

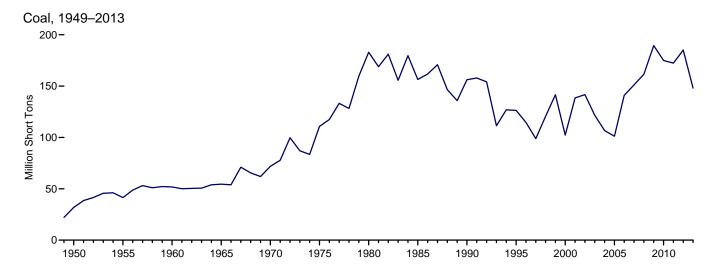
petroleum, waste oil, and, beginning in 2011, propane.

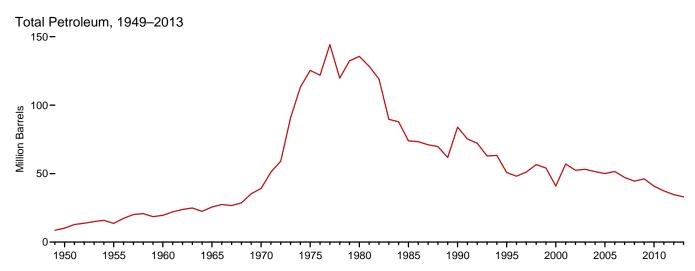
^e Natural gas, plus a small amount of supplemental gaseous fuels.

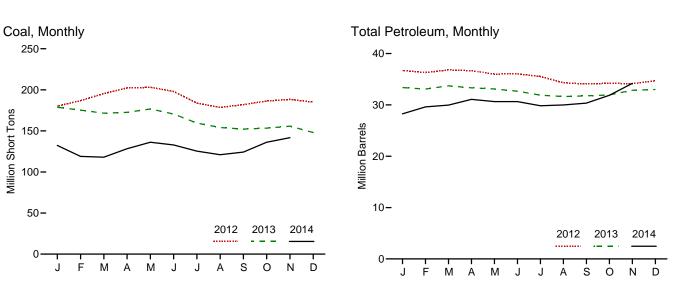
^f Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

⁹ 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.

Figure 7.5 Stocks of Coal and Petroleum: Electric Power Sector







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

				Petroleum		
	Coal ^a	Distillate Fuel Oilb	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Total ^{e,f}
	Thousand Short Tons		Thousand Barrels		Thousand Short Tons	Thousand Barrel
950 Year	31,842	NA	NA	NA	NA	10,201
955 Year	41,391	NA	NA	NA	NA	13,671
960 Year	51,735	NA	NA	NA	NA.	19,572
965 Year	54,525	NA NA	NA NA	NA NA	NA NA	25,647
		NA NA	NA NA	NA NA	239	39.151
70 Year						
75 Year		16,432	108,825	NA	31	125,413
80 Year	183,010	30,023	105,351	NA	52	135,635
985 Year	156,376	16,386	57,304	NA	49	73,933
90 Year	156,166	16,471	67,030	NA	94	83.970
995 Year		15,392	35,102	NA	65	50,821
000 Year ^g		15,127	24,748	NA NA	211	40.932
		20,486	34,594	NA NA	390	57.031
001 Year						
002 Year	141,714	17,413	25,723	800	1,711	52,490
03 Year	121,567	19,153	25,820	779	1,484	53,170
04 Year	106,669	19,275	26,596	879	937	51,434
005 Year	101,137	18,778	27,624	1.012	530	50,062
006 Year		18,013	28.823	1,380	674	51.583
				1,902	554	47.203
007 Year		18,395	24,136			
008 Year	161,589	17,761	21,088	1,955	739	44,498
009 Year	189,467	17,886	19,068	2,257	1,394	46,181
010 Year	174,917	16,758	16,629	2,319	1,019	40,800
011 Year	172,387	16,649	15,491	2,707	508	37,387
12 January	180,091	16,682	15,242	2,736	409	36,704
February	186,866	16,500	15,150	2,780	374	36.300
	195.380	16,413	15,324	2,760	453	36,817
March						
April	202,265	16,371	15,154	2,850	457	36,661
May		16,290	14,814	2,868	406	36,002
June	197.924	16.248	14.600	2.899	458	36.038
July	183,958	16,700	13,872	2,930	406	35,534
	178,537	16,123	13,668	2,827	336	34,302
August						
September	182,020	16,059	13,524	2,734	353	34,081
October	186,396	16,019	13,406	2,757	406	34,212
November	188,291	16,031	13,221	2,793	416	34,126
December	185,116	16,433	12,999	2,792	495	34,698
113 January	178,747	16,329	12,161	2,673	442	33,373
February	175,325	16,315	11,935	2,631	442	33.090
	171,518	16,209	12,869	2,600	406	33,710
March						
April		16,009	12,451	2,592	455	33,326
May		15,894	12,412	2,588	442	33,105
June	170,534	15,898	12,134	2,594	407	32,663
July	159,536	15,696	11,677	2,551	394	31,895
August	154,119	15,637	12,157	2,534	260	31,628
September	152,185	15,511	12,212	2,493	309	31,760
October	153,352	15,652	12,384	2,451	291	31,941
November	155,754	15,793	12,911	2,466	338	32,858
December	147,973	15,735	12,863	2,446	390	32,994
14 January	132,324	14,605	9,923	2,242	298	28,260
February	118,949	15,384	10,623	2,278	265	29,609
March		15.436	10.538	2,241	349	29,960
		15,707	10,527	2,272	514	31,078
April						
May		15,447	10,609	2,308	457	30,647
June	132,885	15,616	10,698	2,290	407	30,641
July	125,389	15,487	10,284	2,151	381	29,825
August	121.042	15,430	10,475	2,138	388	29.982
September		15,718	10,537	2,148	389	30,348
October	136,188	16,236	10,783	2,300	510	31,867
November	141.742	16,736	11,863	2,394	640	34,194

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

for electric utilities and independent power producers.

NA=Not available.

Notes: • 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. • 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

and CSV tiles) 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," and Form EIA-920, "Combined Heat and 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."

a Anthracite, Diturninous coai, Supplications 2014, 2015 provided in Supplication 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.

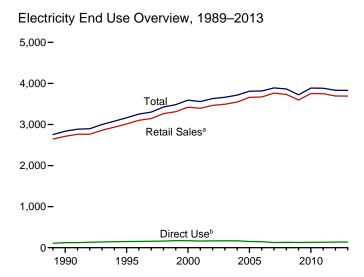
^c Fuel oil nos. 5 and 6. For 1973–1979, data are for steam plant stocks of petroleum. For 1980–2000, electric utility data also include a small amount of fuel oil no. 4.

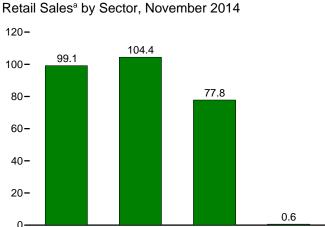
^d Jet fuel and kerosene. Through 2003, data also include a small amount of waste oil.

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

Figure 7.6 Electricity End Use (Billion Kilowatthours)

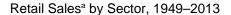


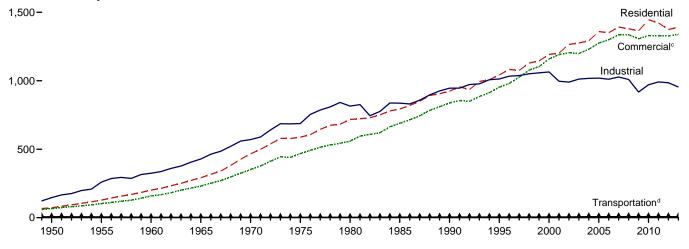


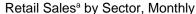
Commercial

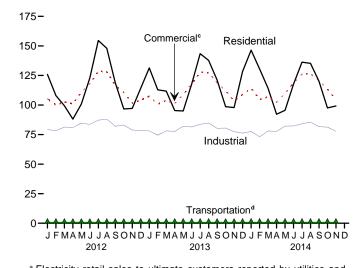
Industrial

Transportation^d





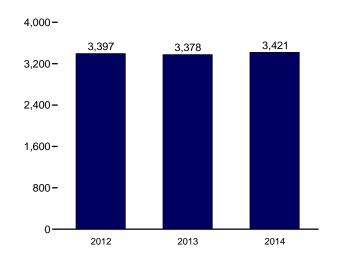




^a Electricity retail sales to ultimate customers reported by utilities and other energy service providers.

Retail Sales^a Total, January-November

Residential



departmental sales, and other sales to public authorites.

d Transportation sector, including sales to railroads and railways.

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

Source: Table 7.6.

^b See "Direct Use" in Glossary.

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

Table 7.6 Electricity End Use

(Million Kilowatthours)

			Retail Salesa					Discont Retail Sale	
	Residential	Commercialb	Industrialc	Transpor- tation ^d	Total Retail Sales ^e	Direct Use ^f	Total End Use ^g	Commercial (Old) ^h	Other (Old) ⁱ
1950 Total	72.200	^E 65,971	146,479	^E 6,793	291.443	NA.	291,443	50.637	22,127
1955 Total	128,401	E 102,547	259,974	^E 5,826	496,748	NA	496,748	79,389	28,984
1960 Total	201,463	E 159,144	324,402	5,066 □	688,075	NA	688,075	130,702	31,508
1965 Total	291,013	E 231,126	428,727	E 2,923	953,789	NA	953,789	200,470	33,580
1970 Total	466,291	E 352,041	570,854	^E 3,115	1,392,300	NA	1,392,300	306,703	48,452
1975 Total	588,140	E 468,296	687,680	E 2,974	1,747,091	NA NA	1,747,091	403,049	68,222
1980 Total	717,495	558,643	815,067	3,244	2,094,449	NA	2,094,449	488,155	73,732
1985 Total	793,934	689,121	836,772	4,147	2,323,974	NA	2,323,974	605,989	87,279
1990 Total	924,019	838,263	945,522	4,751	2,712,555	124,529	2,837,084	751,027	91,988
1995 Total	1,042,501	953,117	1,012,693	4,975	3,013,287	150,677	3,163,963	862,685	95,407
2000 Total	1,192,446	1,159,347	1,064,239	5,382	3,421,414	170,943	3,592,357	1,055,232	109,496
2001 Total	1,201,607 1,265,180	1,190,518 1,204,531	996,609 990,238	5,724 5,517	3,394,458 3,465,466	162,649 166,184	3,557,107 3,631,650	1,083,069	113,174
2002 Total	1,205,180	1,204,531	1,012,373	5,517 6,810	3,493,734	168,295	3,662,029	1,104,497	105,552
2003 Total 2004 Total	1,291,982	1,230,425	1,012,373	7,224	3,547,479	168,470	3,715,949		
2005 Total	1,359,227	1,275,079	1,017,650	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	1,379,981	1,335,981	1,009,300	7,700	3,732,962	132,197	3,865,159		
2009 Total	1,364,474	1,307,168	917,442	7,781	3,596,865	126,938	3,723,803		
2010 Total	1,445,708	1,330,199	970,873	7,712	3,754,493	131,910	3,886,403		
2011 Total	1,422,801	1,328,057	991,316	7,672	3,749,846	132,754	3,882,600		
2012 January	125,881	105,239	79,205	650	310,975	E 11,668	322,643		
February	107,975	100,080	78,298	629	286,983	E 11,018	298,001		
March	99,362	102,474	81,298	597	283,731	E 11,013	294,744		
April	88,103	101,037	81,030	590	270,760	E 10,535	281,294		
May	100,895	110,800	84,678	595	296,968	E 11,297 E 11,427	308,266		
June	122,934 154,579	118,009 128,535	83,619 87,219	597 629	325,160 370,963	E 12,528	336,586 383,490		
July August	147,941	128,535	88,105	633	364,785	E 12,423	377,208		
September	118,831	116,585	82,060	613	318,090	E 11,368	329,457		
October	96,669	110,471	82,996	599	290,735	E 11,146	301,882		
November	97,155	101,641	78,847	569	278,212	E 11,306	289,518		
December	114,188	104,122	78,360	619	297,288	E 11,927	309,216		
Total	1,374,515	1,327,101	985,714	7,320	3,694,650	137,657	3,832,306		
2013 January	131,354	107,400	78,141	656	317,551	E 12,046	329,597		
February	112,857	100,722	74,453	649	288,681	E 10,997	299,678		
March	111,784	103,839	78,097	633	294,352	E 11,844	306,196		
April	95,297	101,385	77,633	623	274,937	E 10,548	285,484		
May	94,978 117,708	108,883 117,670	82,086 81,411	619 629	286,566	E 11,414 E 11,591	297,980		
June	143,438	127,735	83,703	637	317,418 355,513	E 12,406	329,010 367,919		
July August	137,734	127,733	84,701	634	350,437	E 12,160	362,598		
September	121,114	118,977	80,298	631	321,020	E 11,347	332,367		
October	98,656	112,171	80,463	589	291,879	E 11,262	303,141		
November	97,812	103,449	77,536	562	279,359	E 11,504	290,863		
December	128,357	108,849	76,205	665	314,076	E 12,294	326,369		
Total	1,391,090	1,338,448	954,725	7,525	3,691,789	E 139,414	3,831,203		
2014 January	146,435	114,230	77,616	724	339,006	E 12,095	351,100		
February	130,478	104,662	73,135	723	308,997	E 10,589	319,586		
March	114,158	106,873	78,081	645	299,756	E 11,387	311,143		
April	92,188	102,403	77,638	634	272,863	E 10,471	283,334		
May	95,507 117,630	109,713 118,776	82,174 82,282	655 615	288,049 319,302	E 10,599 E 11,023	298,648 330,325		
June July	136,239	126,080	82,282 84,179	653	347,151	E 11,848	358,998		
August	135,247	126,080	85,597	642	348,014	E 11,749	359,762		
September	120,118	120,693	81,717	628	323,157	E 11,120	334,276		
October	97,570	113,553	81,299	630	293,052	E 10,653	303,705		
November	99,148	104,415	77,802	638	282,002	E 11,034	293,036		
11-Month Total	1,284,718	1,247,925	881,520	7,187	3,421,349	E 122,567	3,543,916		
2013 11-Month Total 2012 11-Month Total	1,262,733 1,260,327	1,229,599 1,222,979	878,521 907,354	6,860 6,701	3,377,713 3,397,362	E 127,120 E 125,729	3,504,833 3,523,091		

^a Electricity retail sales to ultimate customers reported by electric utilities and,

sector, excluding public street and highway lighting, interdepartmental sales, and other sales to public authorities.

i "Other (Old)" is a discontinued series—data are for public street and highway

''Other (Old)' is a discontinued series—data are for public street and highway lighting, interdepartmental sales, other sales to public authorities, agriculture and irrigation, and transportation including railroads and railways.

E=Estimate. NA=Not available. — =Not applicable.
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.

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."
 h "Commercial (Old)" is a discontinued series—data are for the commercial

beginning in 1973.
Sources: See end of section.

Electricity

Note 1. Coverage of Electricity Statistics. 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. Data for independent power producers, commercial plants, and industrial plants include plants with a generator nameplate capacity of one megawatt or greater; they exclude plants with a generator nameplate capacity less than one megawatt. Also excluded from the electricity statistics in Section 7 are data for residential and commercial self-generation from solar energy, except for the small amount sold to the grid and included in data for the electric power sector.

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."

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."

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."

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."

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)*, January 2015, Table 5.1.

Retail Sales, Commercial

1949–2002: Estimated by EIA as the sum of "Commercial (Old)" and the non-transportation portion of "Other (Old)." 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, January 2015, Table 5.1.

Retail Sales, Transportation

1949–2002: Estimated by EIA as the transportation portion of "Other (Old)." 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, January 2015, 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."

2001–2012: EIA, *Electric Power Annual 2012*, December 2013, Table 2.2.

2013: 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 2013 and 2014, the 2012 annual share is used.

Discontinued Retail Sales Series Commercial (Old) and Other (Old)

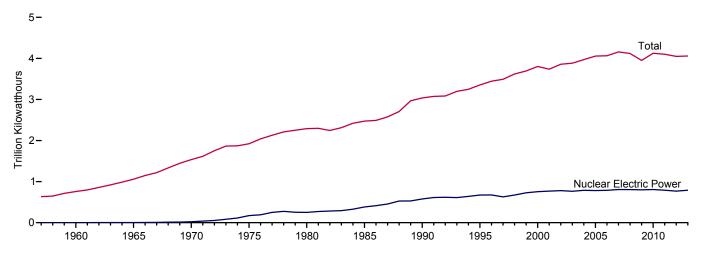
1949–2002: See sources for "Residential" and "Industrial.

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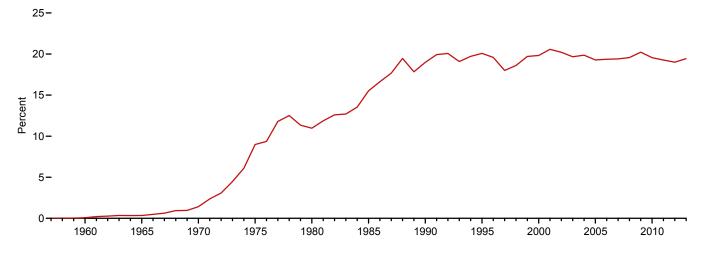
8. Nuclear Energy

Figure 8.1 Nuclear Energy Overview

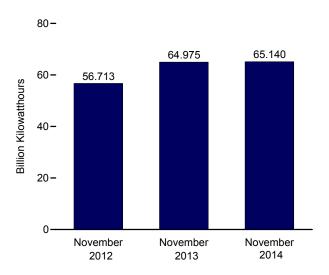
Electricity Net Generation, 1957-2013



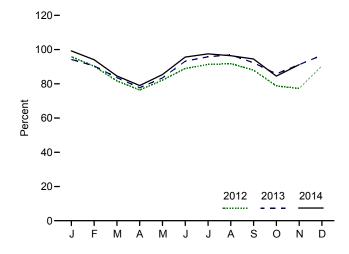
Nuclear Share of Electricity Net Generation, 1957–2013



Nuclear Electricity Net Generation



Capacity Factor, Monthly



Web Page: http://www.eia.gov/totalenergy/data/monthly/#nuclear. Sources: Tables 7.2a and 8.1.

Table 8.1 Nuclear Energy Overview

	Total Operable Units ^{a,b}	Net Summer Capacity of Operable Units ^{b,c}	Nuclear Electricity Net Generation	Nuclear Share of Electricity Net Generation	Capacity Factor
	Number	Million Kilowatts	Million Kilowatthours	Pe	rcent
957 Total	1	0.055	10	(a)	NA
960 Total	3	.411	518	(s) .1	NA NA
965 Total	3 13	.793	3.657	.1	NA NA
	20	7.004	21.804		NA NA
970 Total				1.4	
975 Total	57	37.267	172,505	9.0	55.9
80 Total	71	51.810	251,116	11.0	56.3
85 Total	96	79.397	383,691	15.5	58.0
90 Total	112	99.624	576,862	19.0	66.0
95 Total	109	99.515	673,402	20.1	77.4
00 Total	104	97.860	753,893	19.8	88.1
01 Total	104	98.159	768,826	20.6	89.4
02 Total	104	98.657	780,064	20.2	90.3
003 Total	104	99.209	763,733	19.7	87.9
004 Total	104	99.628	788,528	19.9	90.1
05 Total	104	99.988	781,986	19.3	89.3
06 Total	104	100.334	787,219	19.4	89.6
07 Total	104	100.266	806,425	19.4	91.8
)08 otal	104	100.755	806,208	19.6	d 91.1
009 Total	104	101.004	798,855	20.2	90.3
010 Total	104	101.167	806,968	19.6	91.1
011 Total	104	° 101.419	790,204	19.3	89.1
12 January	104	101.602	72,381	21.3	95.8
February	104	101.602	63,847	20.6	90.3
March	104	101.602	61,729	20.0	81.7
April	104	101.602	55,871	18.9	76.4
May	104	101.625	62,081	18.4	82.1
June	104	101.625	65,140	18.1	89.0
July	104	101.747	69,129	16.7	91.3
August	104	101.856	69,602	17.6	91.8
September	104	101.856	64,511	19.3	88.0
October	104	101.856	59,743	19.2	78.8
November	104	101.885	56,713	18.5	77.3
December	104	101.885	68,584	20.5	90.5
Total	104	101.885	769,331	19.0	86.1
13 January	104	E 101.923	71,406	20.5	E 94.2
February	103	E 101.063	61,483	19.9	E 90.5
March	103	E 101.172	62,947	19.4	E 83.6
April	103	E 101.468	56,767	19.0	E 77.7
May	102	E_101.147	62,848	19.5	E 83.4
June	100	€ 98.997	66,430	18.6	E 93.2
July	100	E 98.997	70,539	17.9	^E 95.8
August	100	€ 98.997	71,344	18.6	E 96.9
September	100	E 98.997	65,799	19.3	E 92.3
October	100	E 98.997	63,184	20.1	E 85.8
November	100	E 98.997	64,975	20.7	E 91.2
December	100	€ 99.105	71,294	20.2	<u> </u>
Total	100	^E 99.105	789,017	19.4	^E 90.1
14 January	100	E 98.957	73,064	19.4	E 99.2
February	100	E 98.977	62,639	19.4	<u> </u>
March	100	E 98.977	62,397	18.8	E 84.6
April	100	<u> </u> 98.977	56,385	19.0	€ 79.0
May	100	^E 98.977	62,947	19.4	E 85.4
June	100	E 98.977	68,138	19.1	E 95.6
July	100	E 99.189	71,940	18.7	E 97.5
August	100	^E 99.180	71,129	18.5	^E 96.4
September	100	E 99.242	67,535	19.9	E 94.5
October	100	E 99.224	62,391	19.9	E 84.5
November	100	E 99.225	65,140	20.5	E 91.2
11-Month Total	100	E 99.225	723,705	19.3	E 91.1
13 11-Month Total	100	^E 98.997	717,723	19.4	^E 89.5

^a Total of nuclear generating units holding full-power licenses, or equivalent permission to operate, at end of period. See Note 1, "Operable Nuclear Reactors," at end of section.

^b At end of period.

methodology. For an explanation of the method of calculating the capacity factor, see Note 2, "Nuclear Capacity," at end of section.

E=Estimate. NA=Not available. (s)=Less than 0.05.
Notes: • For a discussion of nuclear reactor unit coverage, see Note 1, "Operable Nuclear Reactors," at end of section. • Nuclear electricity net generation 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/#nuclear (Excel and CSV files) for all available annual data beginning in 1957 and monthly data beginning in 1973.

Sources: See end of section.

at end of section.

^b At end of period.

^c For the definition of "Net Summer Capacity," see Note 2, "Nuclear Capacity," at end of section. Beginning in 2011, monthly capacity values are estimated in two steps: 1) uprates and derates reported on Form EIA-860M are added to specific months; and 2) the difference between the resulting year-end capacity (from data reported on Form EIA-860M) and final capacity (reported on Form EIA-860) is allocated to the month of January.

^d Beginning in 2008, capacity factor data are calculated using a new

Nuclear Energy

- **Note 1. Operable Nuclear Reactors.** A reactor is generally defined as operable while it possessed a full-power license from the Nuclear Regulatory Commission or its predecessor the Atomic Energy Commission, or equivalent permission to operate, at the end of the year or month shown. The definition is liberal in that it does not exclude units retaining full-power licenses during long, non-routine shutdowns that for a time rendered them unable to generate electricity. Examples are:
- (a) In 1985 the five then-active Tennessee Valley Authority (TVA) units (Browns Ferry 1, 2, and 3, and Sequoyah 1 and 2) were shut down under a regulatory forced outage. All five units were idle for several years, restarting in 2007, 1991, 1995, 1988, and 1988, respectively and were counted as operable during the shutdowns.
- (b) Shippingport was shut down from 1974 through 1976 for conversion to a light-water breeder reactor, but is counted as operable from 1957 until its retirement in 1982.
- (c) Calvert Cliffs 2 was shut down in 1989 and 1990 for replacement of pressurizer heater sleeves but is counted as operable during those years.

Exceptions to the definition are Shoreham and Three Mile Island 2. Shoreham was granted a full-power license in April 1989, but was shut down two months later and never restarted. In 1991, the license was changed to Possession Only. Although not operable at the end of the year, Shoreham is counted as operable during 1989. A major accident closed Three Mile Island 2 in 1979, and although the unit retained its full-power license for several years, it is considered permanently shut down since that year.

The following nuclear generating units were retired in 2013: Crystal River 3 in February; Kewaunee in May; and San Onofre 2 and 3 in June.

- **Note 2. Nuclear Capacity.** Nuclear generating units may have more than one type of net capacity rating, including the following:
- (a) Net Summer Capacity—The steady hourly output that generating equipment is expected to supply to system load, exclusive of auxiliary power, as demonstrated by test at the time of summer peak demand. Auxiliary power of a typical nuclear power plant is about 5 percent of gross generation.

(b) Net Design Capacity or Net Design Electrical Rating (DER)—The nominal net electrical output of a unit, specified by the utility and used for plant design.

Through 2007, the monthly capacity factors are calculated as the monthly nuclear electricity net generation divided by the maximum possible nuclear electricity net generation for that month. The maximum possible nuclear electricity net generation is the number of hours in the month (assuming 24-hour days, with no adjustment for changes to or from Daylight Savings Time) multiplied by the net summer capacity of operable nuclear generating units at the end of the month. That fraction is then multiplied by 100 to obtain a percentage. Annual capacity factors are calculated as the annual nuclear electricity net generation divided by the annual maximum possible nuclear electricity net generation (the sum of the monthly values for maximum possible nuclear electricity net generation). For the methodology used to calculate capacity factors beginning in 2008, see U.S. Energy Information Administration, *Electric* Power Monthly, Appendix C notes on "Average Capacity Factors."

Table 8.1 Sources

Total Operable Units and Net Summer Capacity of Operable Units

1957–1982: Compiled from various sources, primarily U.S. Department of Energy, Office of Nuclear Reactor Programs, "U.S. Central Station Nuclear Electric Generating Units: Significant Milestones."

1983 forward: U.S. Energy Information Administration (EIA), Form EIA-860, "Annual Electric Generator Report," and predecessor forms; Form EIA-860M, "Monthly Update to the Annual Electric Generator Report"; and monthly updates as appropriate. For a list of operable units as of November 2011, see http://www.eia.gov/nuclear/reactors/stats table1.html.

Nuclear Electricity Net Generation and Nuclear Share of Electricity Net Generation

1957 forward: Table 7.2a.

Capacity Factor

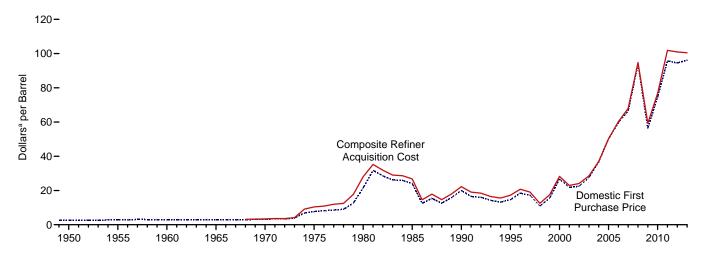
1973–2007: Calculated by EIA using the method described above in Note 2.

2008 forward: EIA, Form EIA-860, "Annual Electric Generator Report"; Form EIA-860M, "Monthly Update to the Annual Electric Generator Report"; and Form EIA-923, "Power Plant Operations Report."

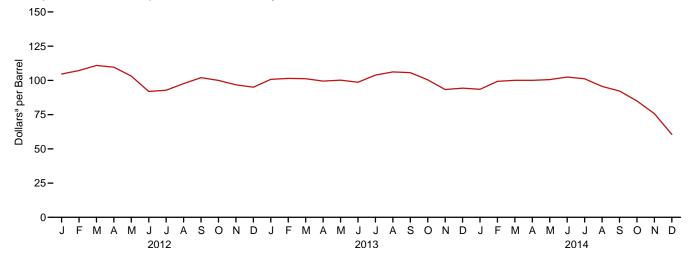
9. Energy Prices

Figure 9.1 Petroleum Prices

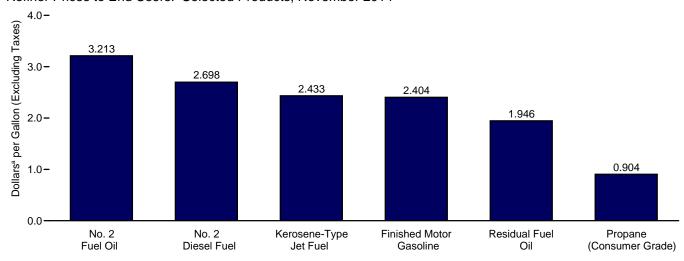
Crude Oil Prices, 1949-2013



Composite Refiner Acquisition Cost, Monthly



Refiner Prices to End Users: Selected Products, November 2014



^a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary. Web Page: http://www.eia.gov/totalenergy/data/monthly/#prices. Sources: Tables 9.1, 9.5, and 9.7.

Table 9.1 Crude Oil Price Summary

(Dollars^a per Barrel)

	Domestic First	F.O.B. Cost	Landad Coot	R	efiner Acquisition Cos	st ^b
	Purchase Price ^c	of Imports ^d	Landed Cost of Imports ^e	Domestic	Imported	Composite
OEO Average	2.51	NA	NA	NA	NA	NA
950 Average		NA NA	NA NA	NA NA	NA NA	NA NA
955 Average	2.77					
960 Average	2.88	NA	NA	NA	NA	NA
965 Average	2.86	NA	NA	NA	NA	NA
970 Average	3.18	NA	NA	^E 3.46	^E 2.96	^E 3.40
975 Average	7.67	11.18	12.70	8.39	13.93	10.38
980 Average	21.59	32.37	33.67	24.23	33.89	28.07
985 Average	24.09	25.84	26.67	26.66	26.99	26.75
990 Average	20.03	20.37	21.13	22.59	21.76	22.22
995 Average	14.62	15.69	16.78	17.33	17.14	17.23
000 Average	26.72	26.27	27.53	29.11	27.70	28.26
001 Average	21.84	20.46	21.82	24.33	22.00	22.95
002 Average	22.51	22.63	23.91	24.65	23.71	24.10
003 Average	27.56	25.86	27.69	29.82	27.71	28.53
004 Average	36.77	33.75	36.07	38.97	35.90	36.98
005 Average	50.28	47.60	49.29	52.94	48.86	50.24
006 Average	59.69	57.03	59.11	62.62	59.02	60.24
007 Average	66.52	66.36	67.97	69.65	67.04	67.94
008 Average	94.04	90.32	93.33	98.47	92.77	94.74
009 Average	56.35	57.78	60.23	59.49	59.17	59.29
010 Average	74.71	74.19	76.50	78.01	75.86	76.69
011 Average	95.73	101.66	102.92	100.71	102.63	101.87
112 January	98.99	103.96	105.27	103.97	105.25	104.71
February	102.04	108.56	109.23	105.93	108.08	107.18
March	105.42	110.65	110.62	110.80	111.00	110.92
April	103.62	107.17	107.55	111.22	108.54	109.68
May	95.57	100.79	101.56	103.04	103.26	103.17
June	83.59	87.89	91.90	91.66	92.18	91.96
July	86.10	92.50	93.68	92.64	92.99	92.84
August	92.53	99.63	98.70	98.58	97.04	97.70
September	95.98	101.03	101.34	102.17	101.82	101.97
October	92.24	97.75	99.22	99.07	100.92	100.02
November	89.64	91.86	96.20	95.28	98.07	96.78
December	89.81	92.69	95.01	96.56	93.70	95.06
Average	94.52	99.78	101.00	100.72	101.09	100.93
013 January	95.00	94.93	95.12	103.78	97.91	100.78
February	95.01	100.46	98.93	103.75	99.23	101.45
March	95.54	99.73	98.35	103.45	99.11	101.23
April	94.41	95.59	95.75	102.53	96.45	99.50
May	94.75	96.12	97.39	101.98	98.50	100.17
June	93.82	96.22	96.90	100.26	97.17	98.67
July	101.41	101.36	101.19	106.19	101.56	103.85
August	102.96	101.89	103.13	108.30	104.16	106.20
	102.32	100.82	103.13	107.96	103.49	105.70
September						
October	96.18	92.81	94.89	103.00	97.84	100.41
November	88.70	88.30	89.45	96.09	90.36	93.32
December	91.85	89.90	90.07	97.87	90.57	94.32
Average	95.99	96.56	96.99	102.91	98.11	100.49
14 January	89.59	90.93	90.97	97.17	89.63	93.52
	96.89	92.76	95.38	102.33	96.04	99.32
February						
March	96.18	93.06	95.54	102.61	97.04	100.05
April	96.47	94.18	96.47	102.42	97.30	100.07
May	95.69	96.17	98.00	102.36	98.44	100.57
June	98.70	97.57	99.27	104.18	100.17	102.45
July	96.67	93.79	96.59	103.20	98.66	101.18
August	90.72	89.28	91.53	97.60	93.23	95.61
September	87.34	R 85.26	^R 87.31	94.62	89.38	92.26
	78.83	R 76.84	R 80.83	R 86.73	R 82.75	R 84.99
October				00.73 R 77.00		
November	^R 71.07	^R 70.80	^R 73.48	^R 77.08	^R 73.90	^R 75.69
December	NA	NA	NA	^E 62.89	^E 58.22	E 60.57

a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.

R=Revised. NA=Not available. E=Estimate.

Notes: • Domestic first purchase prices and refinery acquisition costs for the current two months are preliminary. F.O.B. and landed costs for the current three months are preliminary. • Through 1980, F.O.B. and landed costs reflect the

period of reporting; beginning in 1981, they reflect the period of loading. • Annual

CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.
Sources: See end of section.

a Prices are not adjusted for initiation. See Indiffusion Costs," at end of section.

See Note 1, "Crude Oil Refinery Acquisition Costs," at end of section.

See Note 2, "Crude Oil F.O.B. Costs," at end of section.

See Note 4, "Crude Oil Landed Costs," at end of section.

See Note 4, "Crude Oil Landed Costs," at end of section.

Armual averages are the averages of the monthly prices, weighted by volume.
 Geographic coverage is the 50 states, the District of Columbia, Puerto Rico, the Virgin Islands, and all U.S. Territories and Possessions.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#prices (Excel and Columbia).

Table 9.2 F.O.B. Costs of Crude Oil Imports From Selected Countries

(Dollarsa per Barrel)

								I		
			Se	elected Count	ries			Persian		
	Angola	Colombia	Mexico	Nigeria	Saudi Arabia	United Kingdom	Venezuela	Gulf Nations ^b	Total OPEC ^c	Total Non-OPEC [©]
1973 Averaged	w	w	_	7.81	3.25	_	5.39	3.68	5.43	4.80
1975 Average	10.97	_	11.44	11.82	10.87	_	11.04	10.88	11.34	10.62
1980 Average	33.45	W	31.06	35.93	28.17	34.36	24.81	28.92	32.21	32.85
1985 Average	26.30	-	25.33	28.04	22.04	27.64	23.64	23.31	25.67	25.96
1990 Average	20.23	20.75	19.26	22.46	20.36	23.43	19.55	18.54	20.40	20.32
1995 Average	16.58	16.73	15.64	17.40	W	16.94	13.86	W	15.36	16.02
2000 Average	27.90 23.25	29.04 24.25	25.39 18.89	28.70 24.85	24.62 18.98	27.21 23.30	24.45 18.01	24.72 18.89	25.56 19.73	26.77 21.04
2001 Average 2002 Average	23.25	24.25	21.60	25.38	23.92	24.50	20.13	23.38	22.18	22.93
2003 Average	28.22	28.89	24.83	29.40	25.03	28.76	23.81	25.17	25.36	26.21
2004 Average	37.26	37.73	31.55	38.71	34.08	37.30	31.78	33.08	33.95	33.58
2005 Average	52.48	51.89	43.00	55.95	47.96	54.48	46.39	47.21	49.60	45.79
2006 Average	62.23	59.77	52.91	65.69	56.09	66.03	55.80	56.02	59.18	55.35
2007 Average	67.80	67.93	61.35	76.64	W	69.96	64.10	69.93	69.58	62.69
2008 Average	95.66	91.17	84.61	102.06	93.03	96.33	88.06	91.44	93.15	87.15
2009 Average	57.07 78.18	57.90 72.56	56.47 72.46	64.61 80.83	57.87 76.44	65.63 W	55.58 70.30	59.53 75.65	58.53 75.23	57.16 73.24
2010 Average 2011 Average	111.82	100.21	100.90	115.35	107.08	-	97.23	106.47	105.34	98.49
2012 January	111.10	106.69	107.79	114.12	W	_	105.08	107.51	107.51	101.40
February	121.45	114.47	110.14	124.31	W	-	110.37	111.12	113.85	103.42
March		118.46	114.81	128.10	W	_	112.76	118.06	117.06	104.65
April		114.06	110.54	W	W	_	109.33	115.02	113.85	101.42
May	110.79 95.65	101.27 91.81	103.12 90.60	110.79 98.96	W 91.90	_	101.45 87.64	105.16 90.55	105.28 90.63	96.74 85.28
June July		96.83	95.03	103.86	91.90 W	_	93.81	95.47	96.30	88.46
August	W	106.16	101.12	114.62	Ŵ	_	99.94	104.87	104.18	95.13
September	112.75	108.59	102.49	111.74	107.14	_	101.00	105.58	105.05	97.52
October	W	105.77	98.98	W	W	_	98.10	102.70	101.29	95.05
November	W	103.75	93.45	-	W	_	93.15	101.91	95.94	89.37
December	-	101.24	94.19	W	W	_	92.99	102.93	98.04	87.64
Average	111.23	106.43	101.84	114.51	106.65	_	100.15	105.45	104.39	95.71
2013 January	W	106.99	100.16	W	W	-	97.15	105.30	102.42	91.11
February	W W	106.45	108.25	W	W	_	104.06	105.22	106.93	96.65
March April		101.31 99.58	105.16 99.94	111.03 W	W W	_	101.60 95.01	108.10 100.50	105.77 98.68	94.09 93.14
May	103.46	98.97	99.06	106.45	W	_	95.48	98.46	98.72	93.99
June	103.67	98.56	97.16	W	w	_	95.71	97.42	98.45	94.59
July	W	102.20	101.27	W	W	W	100.32	101.21	102.36	100.54
August	W	105.59	100.97	111.28	W	_	101.12	104.10	103.69	100.42
September	113.86	103.16	100.14	W	103.53	W	100.37	103.22	104.44	98.42
October	w	W	93.76	_	98.96	_	95.72	98.48	97.38	89.45
November	W	W 95.50	88.56 90.25	W	91.38 95.97	_	91.79 92.46	92.02 94.88	93.23 94.41	84.76 87.24
December Average	107.71	101.24	90.25 98.40	110.06	1 01.16	w	97.52	100.62	100.57	93.67
2014 January	W	95.84	89.30	_	99.21	_	89.69	98.44	94.86	87.56
February	W	96.04	91.77	_	102.26	-	92.88	100.70	97.51	89.73
March	W	W	91.38	W	101.25	-	92.27	100.67	97.19	90.59
April	W	98.61	93.22	W	99.76	_	95.49	99.02	99.30	90.49
May		98.75	95.35	-	100.58	_	96.67	98.89	98.29	94.59
June	W	99.03 100.11	98.20 94.65	_	104.95 105.25	_	98.19 92.45	102.49 103.81	100.67 97.43	95.67 91.37
July August	W	92.38	94.65	_	99.74	_	92.45 89.22	98.95	93.30	86.68
September	W	86.08	88.50	_	R 94.98	_	R 83.20	R 93.59	R 88.39	R 83.11
October	W	72.47	^R 79.79	_	R 85.75	_	R 74.19	85.04	R 79.33	R 75.33
November	W	70.25	72.43	-	W	-	66.84	W	71.65	70.21

Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.

Notes: • The Free on Board (F.O.B.) cost at the country of origin excludes all costs related to insurance and transportation. See "F.O.B. (Free on Board)" in Glossary, and Note 3, "Crude Oil F.O.B. Costs," at end of section. • Values for the current two months are preliminary. • Through 1980, prices reflect the period of reporting; beginning in 1981, prices reflect the period of loading. • Annual averages are averages of the monthly prices, including prices not published, weighted by volume. • Cargoes that are purchased on a "netback" basis, or under similar contractual arrangements whereby the actual purchase price is not established at the time the crude oil is acquired for importation into the United States, are not included in the published data until the actual prices have been States, are not included in the published data until the actual prices have been determined and reported. • U.S. geographic coverage is the 50 states and the District of Columbia.

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

Sources: See end of section.

 ^a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.
 ^b Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, United Arab Emirates, and the Neutral Zone (between Kuwait and Saudi Arabia).
 ^c See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary.
 On this table, "Total OPEC" for all years includes Algeria, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates, and Venezuela; for 1973–2008, also includes Indonesia; for 1973–1992 and again beginning in 2008, also includes Ecuador (although Ecuador rejoined OPEC in November 2007, on this table Ecuador is included in "Total Non-OPEC" for 2007); for 1974–1995, also includes Gahpon (although Gahpon was a member of OPEC for nolly 1975–1994): includes Gabon (although Gabon was a member of OPEC for only 1975–1994); and beginning in 2007, also includes Angola. Data for all countries not included in "Total OPEC" are included in "Total Non-OPEC."

Based on October. November. and December data only.

d Based on October, November, and December data only. R=Revised. - =No data reported. W=Value withheld to avoid disclosure of individual company data.

Table 9.3 Landed Costs of Crude Oil Imports From Selected Countries

(Dollarsa per Barrel)

				Selected C	Countries						
	Angola	Canada	Colombia	Mexico	Nigeria	Saudi Arabia	United Kingdom	Venezuela	Persian Gulf Nations ^b	Total OPEC ^c	Total Non-OPEC ^c
1973 Average ^d	w	5.33	w	_	9.08	5.37	_	5.99	5.91	6.85	5.64
1975 Average	11.81	12.84	_	12.61	12.70	12.50	_	12.36	12.64	12.70	12.70
1980 Average	34.76	30.11	w	31.77	37.15	29.80	35.68	25.92	30.59	33.56	33.99
1985 Average	27.39	25.71	=	25.63	28.96	24.72	28.36	24.43	25.50	26.86	26.53
1990 Average	21.51	20.48	22.34	19.64	23.33	21.82	22.65	20.31	20.55	21.23	20.98
1995 Average	17.66	16.65	17.45	16.19	18.25	16.84	17.91	14.81	16.78	16.61	16.95
2000 Average	29.57	26.69	29.68	26.03	30.04	26.58	29.26	26.05	26.77	27.29	27.80
2001 Average	25.13	20.72	25.88	19.37	26.55	20.98	25.32	19.81	20.73	21.52	22.17
2002 Average	25.43	22.98	25.28	22.09	26.45	24.77	26.35	21.93	24.13	23.83	23.97
2003 Average	30.14	26.76	30.55	25.48	31.07	27.50	30.62	25.70	27.54	27.70	27.68
2004 Average	39.62	34.51	39.03	32.25	40.95	37.11	39.28	33.79	36.53	36.84	35.29
2005 Average	54.31	44.73	53.42	43.47	57.55	50.31	55.28	47.87	49.68	51.36	47.31
2006 Average	64.85	53.90	62.13	53.76	68.26	59.19	67.44	57.37	58.92	61.21	57.14
2007 Average	71.27	60.38	70.91	62.31	78.01	70.78	72.47	66.13	69.83	71.14	63.96
2008 Average	98.18	90.00	93.43	85.97	104.83	94.75	96.95	90.76	93.59	95.49	90.59
2009 Average	61.32	57.60	58.50	57.35	68.01	62.14	63.87	57.78	62.15	61.90	58.58
2010 Average	80.61	72.80	74.25	72.86	83.14	79.29	80.29	72.43	78.60	78.28	74.68
2011 Average	114.05	89.92	102.57	101.21	116.43	108.83	118.45	100.14	108.01	107.84	98.64
2012 January	115.13	93.43	110.54	108.38	115.41	110.49	W	106.23	110.61	110.32	101.31
February	121.30	92.09	115.19	111.24	126.42	114.75	W	111.72	114.24	115.76	102.99
March	128.35	88.71	119.93	115.20	130.46	117.55	-	114.29	116.71	117.99	103.94
April	120.60	85.55	113.78	111.55	124.06	115.33	W	110.58	115.77	116.10	99.94
May	114.94	82.78	105.04	103.79	113.89	108.39	W	103.02	108.52	108.26	95.21
June	103.10	78.11	93.85	90.89	103.24	99.38	_	89.41	99.24	97.29	87.15
July	106.95	75.65	97.70	95.24	106.95	99.00	W	94.91	99.05	99.49	88.11
August	113.27	80.68	105.94	101.98	114.51	104.66	-	101.38	104.35	105.27	92.29
September	116.51	85.42	109.19	103.16	114.95	107.06	-	102.97	106.29	107.02	95.79
October	114.90	86.35	106.48	99.09	117.03	106.12	W	99.31	105.76	105.81	93.77
November	111.01	82.89	104.74	94.32	112.41	106.05		94.67	104.94	102.26	91.17
December	116.37	76.68	102.86	94.98	114.52	106.87	W	94.30	105.78	103.38	86.76
Average	114.95	84.24	107.07	102.45	116.88	108.15	W	101.58	107.74	107.56	95.05
2013 January	115.79	75.30	106.36	101.04	120.99	108.57	-	99.04	107.02	106.84	86.31
February	115.90	76.46	109.28	108.95	117.89	108.75	W	105.54	107.96	108.86	90.59
March	110.56	79.51	105.37	106.36	113.36	107.59	W	103.35	107.94	107.50	90.13
April	105.56	83.06	101.42	100.62	106.07	102.28	W	96.19	102.30	101.76	90.88
May	106.47	86.92	100.70	99.92	108.12	101.54	W	97.44	101.35	101.63	93.52
June	106.73	88.30	99.36	97.56	108.38	101.41	W	97.44	101.26	101.21	93.48
July	110.43	94.14	102.47	101.87	W	104.13	W	101.65	103.15	103.96	98.64
August	111.88	98.63	106.04	101.52	114.47	104.62	W	102.95	104.15	104.91	101.58
September	113.92	95.02	105.76	100.70	115.21	101.16	W	102.09	101.94	104.10	99.35
October	W 110.50	85.36	102.29	94.35	W	98.68	_	97.60	99.31	99.53	91.23
November	110.50	77.34	97.30	89.19	W	96.12	W	94.42 94.83	96.57	96.32	83.89
December Average	113.16 110.81	75.23 84.41	97.41 103.00	91.11 99.06	112.87	99.29 102.60	111.23	94.83 99.34	98.30 102.53	98.02 102.98	84.14 91.99
Average		04.41	103.00	33.00	112.01	102.00	111.23	99.34	102.33	102.90	91.99
2014 January	W	78.19	97.87	90.85	_	101.30	_	92.52	100.18	98.30	84.91
February	110.96	87.98	98.59	92.92	W	102.62	W	95.33	101.54	100.41	91.27
March	107.52	89.39	98.71	92.44	W	102.15	_	94.63	101.68	100.36	92.15
April	108.70	89.01	99.68	94.01	W	102.35	W	97.29	101.97	101.82	91.99
May	W	91.77	101.24	96.17	W	103.11	_	98.49	102.06	101.61	94.97
June	W	93.03	102.61	99.36	_	104.11	W	99.78	102.78	102.39	97.01
July	W	90.27	101.68	95.61	_	103.01	W	94.12	102.39	100.17	94.03
August	103.69	83.93 R 94.27	95.70 R 04.03	92.07	_	98.80 R 03.30	_	91.64 R 94.79	99.98 R 03.94	97.19 R 04.07	88.15
September	99.49 R 90.74	^R 81.27 ^R 76.48	R 91.03	89.25 R 90.42	W	^R 93.39 ^R 85.96	W	^R 84.78 ^R 75.72	^R 93.81 ^R 88.20	^R 91.07 ^R 84.54	^R 85.08 ^R 78.62
October	₩ W	70.10	80.37 73.37	^R 80.42 73.41	W		VV —	69.12	80.98	** 84.54 76.53	11.97
November	v V	70.10	13.31	13.41	v V	80.50	_	03.12	00.90	10.00	11.31

coverage is the 50 states and the District of Columbia.

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

Sources: • October 1973—September 1977: Federal Energy Administration, Form FEA-F701-M-0, "Transfer Pricing Report." • October 1977—December 1977: U.S. Energy Information Administration (EIA), Form FEA-F701-M-0, "Transfer Pricing Report." • 1978—2007: EIA, Petroleum Marketing Annual 2008, Table 22. • 2008 forward: EIA, Petroleum Marketing Monthly, February 2015, Table 29.

^a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.
^b Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, United Arab Emirates, and the Neutral Zone (between Kuwait and Saudi Arabia).

the Neutral Zone (between Kuwait and Saudi Arabia).

^c See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary. On this table, "Total OPEC" for all years includes Algeria, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates, and Venezuela; for 1973–2008, also includes Indonesia; for 1973–1992 and again beginning in 2008, also includes Ecuador (although Ecuador rejoined OPEC in November 2007, on this table Ecuador is included in "Total Non-OPEC" for 2007); for 1974–1995, also includes Gabon (although Gabon was a member of OPEC for only 1975–1994); sort hearing in 2007, does included in a control of the control of and beginning in 2007, also includes Angola. Data for all countries not included in "Total OPEC" are included in "Total Non-OPEC."

d Based on October, November, and December data only.

R=Revised. - =No data reported. W=Value withheld to avoid disclosure of

individual company data.

Notes: • See "Landed Costs" in Glossary, and Note 4, "Crude Oil Landed Costs," at end of section.

• Values for the current two months are preliminary.

[•] Through 1980, prices reflect the period of reporting; beginning in 1981, prices Inrough 1980, prices renect the period of reporting, beginning in 1981, prices reflect the period of loading.
 Annual averages are averages of the monthly prices, including prices not published, weighted by volume.
 Cargoes that are purchased on a "netback" basis, or under similar contractual arrangements whereby the actual purchase price is not established at the time the crude oil is acquired for importation into the United States, are not included in the published detailed the netted prices have been determined and reported. data until the actual prices have been determined and reported. • U.S. geographic coverage is the 50 states and the District of Columbia.

Table 9.4 Retail Motor Gasoline and On-Highway Diesel Fuel Prices

(Dollarsa per Gallon, Including Taxes)

	Pla	att's / Bureau of L	abor Statistics [Data	U.S. Energy Information Administration Data				
		Motor Gasol	ine by Grade			otor Gasoline by Are			
	Leaded Regular	Unleaded Regular	Unleaded Premium ^b	All Grades ^c	Conventional Gasoline Areas	Reformulated Gasoline Areas ^e	All Areas	On-Highway Diesel Fuel	
1950 Average	0.268	NA	NA	NA					
1955 Average	.291	NA	NA	NA					
1960 Average	.311	NA	NA	NA					
1965 Average	.312	NA	NA	NA					
1970 Average	.357	NA	NA	NA					
1975 Average	.567	NA	NA	NA					
1980 Average	1.19 <u>1</u>	1.245	NA	1.221					
1985 Average	1.115	1.202	1.340	1.196					
1990 Average	1.149	1.164	1.349	1.217	NA 4 402	NA 4.462	NA 4 444	NA 1.109	
1995 Average		1.147 1.510	1.336 1.693	1.205 1.563	1.103 1.462	1.163 1.543	1.111 1.484	1.491	
2000 Average 2001 Average		1.461	1.657	1.531	1.384	1.498	1.420	1.401	
2002 Average		1.358	1.556	1.441	1.313	1.408	1.345	1.319	
2003 Average		1.591	1.777	1.638	1.516	1.655	1.561	1.509	
2004 Average		1.880	2.068	1.923	1.812	1.937	1.852	1.810	
2005 Average		2.295	2.491	2.338	2.240	2.335	2.270	2.402	
2006 Average		2.589	2.805	2.635	2.533	2.654	2.572	2.705	
2007 Average		2.801	3.033	2.849	2.767	2.857	2.796	2.885	
2008 Average		3.266	3.519	3.317	3.213	3.314	3.246	3.803	
2009 Average		2.350	2.607	2.401	2.315	2.433	2.353	2.467	
2010 Average 2011 Average	==	2.788 3.527	3.047 3.792	2.836 3.577	2.742 3.476	2.864 3.616	2.782 3.521	2.992 3.840	
		3.399	3.663	3.447	3.330	3.486	3.380	3.833	
2012 January		3.572	3.840	3.622	3.517	3.711	3.579	3.953	
March		3.868	4.138	3.918	3.774	4.017	3.852	4.127	
April		3.927	4.194	3.976	3.837	4.032	3.900	4.115	
May		3.792	4.062	3.839	3.643	3.919	3.732	3.979	
June		3.552	3.825	3.602	3.465	3.695	3.539	3.759	
July		3.451	3.726	3.502	3.379	3.565	3.439	3.721	
August		3.707	3.991	3.759	3.668	3.834	3.722	3.983	
September		3.856	4.140	3.908	3.801	3.949	3.849	4.120	
October		3.786	4.079	3.839	3.653	3.939	3.746	4.094	
November December		3.488 3.331	3.782 3.626	3.542 3.386	3.380 3.256	3.603 3.424	3.452 3.310	4.000 3.961	
Average		3.644	3.922	3.695	3.552	3.757	3.618	3.968	
2013 January		3.351	3.646	3.407	3.255	3.452	3.319	3.909	
February		3.693	3.990	3.748	3.605	3.807	3.670	4.111	
March		3.735	4.038	3.792	3.648	3.845	3.711	4.068	
April		3.590	3.901	3.647	3.501	3.714	3.570	3.930	
May		3.623 3.633	3.936 3.957	3.682 3.693	3.565 3.576	3.720 3.731	3.615 3.626	3.870 3.849	
June July		3.628	3.95 <i>1</i> 3.951	3.687	3.515	3.751	3.591	3.866	
August		3.600	3.919	3.658	3.515	3.697	3.574	3.905	
September		3.556	3.881	3.616	3.474	3.656	3.532	3.961	
October		3.375	3.702	3.434	3.285	3.468	3.344	3.885	
November		3.251	3.585	3.310	3.186	3.362	3.243	3.839	
December		3.277	3.604	3.333	3.209	3.418	3.276	3.882	
Average		3.526	3.843	3.584	3.443	3.635	3.505	3.922	
2014 January		3.320	3.651	3.378	3.252	3.438	3.313	3.893	
February		3.364	3.694	3.422	3.305	3.464	3.356	3.984	
March		3.532	3.858	3.590	3.474	3.658	3.533	4.001	
April		3.659	3.986	3.717	3.590	3.809	3.661	3.964	
May		3.691	4.020	3.745	3.601	3.824	3.673	3.943	
June	==	3.695	4.027	3.750	3.626	3.831	3.692	3.906	
July		3.633 3.481	3.976 3.835	3.690 3.540	3.539 3.425	3.763 3.616	3.611 3.487	3.884 3.838	
August September		3.403	3.835 3.758	3.540 3.463	3.425	3.516	3.487 3.406	3.838	
October		3.403 3.182	3.756 3.547	3.463	3.354	3.277	3.406	3.792	
November		2.887	3.262	2.945	2.875	2.990	2.912	3.647	
December		2.560	2.940	2.618	2.488	2.657	2.543	3.411	
Average		3.367	3.713	3.425	3.299	3.481	3.358	3.825	
_									
2015 January		NA	NA	NA	2.046	2.262	2.116	2.997	

gasoline (RFG). Areas are reclassified each time a shift in or out of an RFG program occurs due to federal or state regulations.

NA=Not available. — =No data reported. ——=Not applicable.

Notes: • See Note 5, "Motor Gasoline Prices," at end of section. • See "Motor Gasoline Grades," "Motor Gasoline, Conventional," "Motor Gasoline, Oxygenated," and "Motor Gasoline, Reformulated" in Glossary. • Geographic coverage: for columns 1–4, current coverage is 85 urban areas; for columns 5–7, coverage is the 50 states and the District of Columbia; for column 8, coverage is the 48 contiguous

states and the District of Columbia.

states and the District of Columbia.

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

Sources: • Motor Gasoline by Grade, Monthly Data: October 1973 forward—U.S. Department of Labor, Bureau of Labor Statistics (BLS), U.S. City Average Gasoline Prices. • Motor Gasoline by Grade, Annual Data: 1949–1973—Platr's Oil Price Handbook and Oilmanac, 1974, 51st Edition. 1974 forward—calculated by the U.S. Energy Information Administration (EIA) as simple averages of the BLS monthly data. • Regular Motor Gasoline by Area Type: EIA, calculated as simple averages of weighted weekly estimates from "Weekly U.S. Retail Gasoline Prices, Regular Grade." • On-Highway Diesel Fuel: EIA, calculated as simple averages of weighted weekly estimates from "Weekly Retail On-Highway Diesel Prices."

For January 2015, data for columns 2–4 were not available in time for publication.

 ^a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.
 ^b The 1981 average (available in Web file) is based on September through December data only.

C Also includes grades of motor gasoline not shown separately.

d Any area that does not require the sale of reformulated gasoline.

"Reformulated Gasoline Areas" are ozone nonattainment areas designated by the U.S. Environmental Protection Agency that require the use of reformulated gasoline (RFG). Areas are reclassified each time a shift in or out of an RFG

Table 9.5 Refiner Prices of Residual Fuel Oil

(Dollars^a per Gallon, Excluding Taxes)

	Residual Fuel Oil Sulfur Content Less Than or Equal to 1 Percent		Sulfur	al Fuel Oil Content an 1 Percent	Average		
	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	
978 Average	0.293	0.314	0.245	0.275	0.263	0.298	
980 Average	.608	.675	.479	.523	.528	.607	
985 Average	.610	.644	.560	.582	.577	.610	
90 Average	.472	.505	.372	.400	.413	.444	
95 Average	.383	.436	.338	.377	.363	.392	
000 Average	.627	.708	.512	.566	.566	.602	
01 Average	.523	.642	.428	.492	.476	.531	
002 Average	.546	.640	.508	.544	.530	.569	
03 Average	.728	.804	.588	.651	.661	.698	
04 Average	.764	.835	.601	.692	.681	.739	
05 Average	1.115	1.168	.842	.974	.971	1.048	
06 Average	1.202	1,342	1.085	1.173	1.136	1,218	
07 Average	1.406	1.436	1.314	1.350	1.350	1.374	
008 Average	1.918	2.144	1.843	1.889	1.866	1.964	
009 Average	1.337	1.413	1.344	1.306	1.342	1.341	
010 Average	1.756	1.920	1.679	1.619	1.697	1.713	
011 Average	2.389	2.736	2.316	2.257	2.336	2.401	
012 January	2.591	2.965	2.480	2.452	2.512	2.620	
February	2.739	3.070	2.632	2.556	2.654	2.705	
March	2.921	3.159	2.717	2.601	2.772	2.784	
April	2.805	3.201	2.624	2.596	2.670	2.731	
May	2.589	3.170	2.501	2.652	2.527	2.784	
June	2.275	3.083	2.186	2.179	2.211	2.476	
July	2.271	2.926	2.224	2.221	2.234	2.406	
August	2.586	3.041	2.457	2.442	2.483	2.579	
September	2.558	2.970	2.491	2.473	2.501	2.582	
October	2.464	2.969	2.393	2.382	2.409	2.496	
November	2.385	2.895	2.283	2.346	2.300	2.492	
December	2.341	2.814	2.248	2.275	2.268	2.431	
Average	2.548	3.025	2.429	2.433	2.457	2.592	
013 January	2.530	2.874	2.328	2.333	2.388	2.475	
February	2.571	3.017	2.388	2.402	2.415	2.578	
March	2.479	2.949	2.294	2.320	2.346	2.517	
April	2.354	2.875	2.214	2.238	2.246	2.354	
May	2.316	2.839	2.213	2.421	2.240	2.507	
June	2.285	2.785	2.214	2.385	2.234	2.454	
July	2.282	2.768	2.225	2.280	2.242	2.384	
August	2.331	2.759	2.258	2.411	2.277	2.500	
September	2.359	2.839	2.265	2.412	2.286	2.513	
October	2.338	2.639 NA	2.232	2.364	2.255	2.532	
November	2.296	NA NA	2.232	2.328	2.224	2.532	
December	2.296	NA NA	2.177	2.353	2.224	2.458	
Average	2.315 2.363	2.883	2.177 2.249	2.353 2.353	2.209 2.278	2.482	
MA lanuari	2.337	NA	2.117	2.400	2.173	2.481	
114 January	2.459	NA NA	2.139	2.459	2.173	2.532	
February							
March	2.470	NA NA	2.175	2.376	2.255	2.476	
April	2.401	NA 2.000	2.149	2.323	2.226	2.464	
May	2.350	2.902	2.198	2.304	2.267	2.420	
June	2.358	2.888	2.247	2.314	2.293	2.423	
July	2.287	2.977	2.186	2.324	2.223	2.455	
August	2.148	W	2.130	2.350	2.136	2.471	
September	2.100	2.756	2.068	2.255	2.077	2.362	
October	R 1.893	2.573	1.858	2.099	R 1.866	2.194	
November	1.644	2.294	1.605	1.848	1.612	1.946	

^a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary. R=Revised. NA=Not available. W=Value withheld to avoid disclosure of individual company data.

Notes: • Sales for resale are those made to purchasers other than ultimate consumers. Sales to end users are those made directly to ultimate consumers, including bulk consumers (such as agriculture, industry, and electric utilities) and commercial consumers. • Values for the current month are preliminary.
• Through 1982, prices are U.S. Energy Information Administration (EIA)

estimates. See Note 6, "Historical Petroleum Prices," at end of section.

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

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#prices (Excel and CSV files) for all available annual data beginning in 1982. Sources: • 1978–2007: EIA, Petroleum Marketing Annual 2007, Table 17.

Sources: • 1978–2007: EIA, Petroleum Marketing Annual 2007, Table 17
 • 2008 forward: EIA, Petroleum Marketing Monthly, February 2015, Table 16.

Table 9.6 Refiner Prices of Petroleum Products for Resale

(Dollars^a per Gallon, Excluding Taxes)

		Gasoline	Type Jet Fuel	Kerosene	Fuel Oil	Diesel Fuel	(Consumer Grade)
78 Average	0.434	0.537	0.386	0.404	0.369	0.365	0.237
80 Average	.941	1.128	.868	.864	.803	.801	.415
85 Average	.835	1.130	.794	.874	.776	.772	.398
90 Average	.786	1.063	.773	.839	.697	.694	.386
95 Average	.626	.975	.539	.580	.511	.538	.344
00 Average	.963	1.330	.880	.969	.886	.898	.595
	.886	1.256	.763	.821	.756	.784	.540
01 Average	.828						
02 Average		1.146	.716	.752	.694	.724	.431
03 Average	1.002	1.288	.871	.955	.881	.883	.607
04 Average	1.288	1.627	1.208	1.271	1.125	1.187	.751
05 Average	1.670	2.076	1.723	1.757	1.623	1.737	.933
06 Average	1.969	2.490	1.961	2.007	1.834	2.012	1.031
07 Average	2.182	2.758	2.171	2.249	2.072	2.203	1.194
08 Average	2.586	3.342	3.020	2.851	2.745	2.994	1.437
09 Average	1.767	2.480	1.719	1.844	1.657	1.713	.921
10 Average	2.165	2.874	2.185	2.299	2.147	2.214	1.212
1 Average	2.867	3.739	3.014	3.065	2.907	3.034	1.467
2 January	2.747	3.576	3.059	3.197	3.027	3.018	1.341
February	2.936	3.788	3.186	3.293	3.166	3.163	1.282
March	3.203	4.052	3.296	3.306	3.211	3.308	1.293
April	3.189	4.157	3.255	3.243	3.153	3.252	1.163
May	3.016	4.004	3.076	3.008	2.976	3.039	.950
June	2.757	3.883	2.747	2.697	2.635	2.741	.762
July	2.806	3.877	2.850	2.936	2.774	2.907	.809
August	3.087	4.124	3.129	3.195	2.988	3.206	.875
September	3.163	4.269	3.245	3.236	3.128	3.278	.910
	2.941	4.002	3.182	3.250	3.155	3.265	.979
October	2.713	3.508	3.015		3.049	3.117	.955
November				3.221			
December Average	2.590 2.929	3.518 3.919	2.982 3.080	3.145 3.163	3.003 3.031	3.022 3.109	.894 1.033
3 January	2.676	3.685	3.093	3.334	3.069	3.046	.928
February	3.020	4.058	3.250	3.474	3.168	3.259	.953
	2.987	4.085					.952
March			3.036	3.137	2.977	3.082	
April	2.853	3.962	2.884	2.889	2.793	2.969	.949
May	2.951	4.068	2.763	2.793	2.708	2.958	.932
June	2.882	3.950	2.784	2.806	2.741	2.923	.861
July	2.942	4.017	2.899	2.996	2.894	3.015	.903
August	2.890	4.025	2.995	3.055	2.954	3.084	1.059
September	2.792	3.854	3.017	3.057	2.973	3.095	1.114
October	2.632	3.656	2.928	3.029	2.955	3.006	1.154
November	2.544	3.467	2.868	2.995	2.910	2.949	1.219
December	2.581	3.508	2.978	3.164	3.011	2.998	1.342
Average	2.812	3.869	2.953	3.084	2.966	3.028	1.048
14 January	2.604	3.538	2.964	3.237	3.059	2.981	1.641
February	2.699	3.712	2.981	3.353	3.051	3.091	1.654
March	2.855	3.865	2.939	3.153	2.979	3.031	1.198
April	2.981	3.940	2.911	2.938	2.911	3.027	1.121
May	2.951	3.881	2.932	2.939	2.883	2.987	1.057
June	3.001	4.056	2.917	2.926	2.878	2.973	1.054
July	2.855	3.914	2.882	2.863	2.825	2.921	1.075
	2.759	3.799	2.882	2.922	2.784	2.900	1.055
August	2.759	3.803	2.823	2.851	2.704	2.806	1.097
September							
October November	2.333 2.111	3.548 3.163	2.547 2.409	^R 2.687 2.594	^R 2.476 2.371	^R 2.639 2.558	1.044 .966

^a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.

Notes: • Sales for resale are those made to purchasers other than ultimate consumers. Sales to end users are shown in Table 9.7; they are sales made directly to ultimate consumers, including bulk consumers (such as agriculture, industry, and electric utilities) and residential and commercial consumers. • Values for the current month are preliminary. • Through 1982, prices are U.S. Energy

Information Administration (EIA) estimates. See Note 6, "Historical Petroleum Prices," at end of section. • Geographic coverage is the 50 states and the District of Columbia.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#prices (Excel and CSV files) for all available annual data beginning in 1978 and monthly data

Sources: • 1978–2007: EIA, Petroleum Marketing Annual 2007, Table 4. • 2008 forward: EIA, Petroleum Marketing Monthly, February 2015, Table 4.

b See Note 5, "Motor Gasoline Prices," at end of section.

R=Revised.

Table 9.7 Refiner Prices of Petroleum Products to End Users

(Dollars^a per Gallon, Excluding Taxes)

1978 Average	ed Kerosene- on Type ne Jet Fuel	Kerosene	No. 2 Fuel Oil	No. 2 Diesel Fuel	Propane (Consume Grade)
986 Average 912 1.20 999 Average 985 Average 912 1.20 999 Average 883 1.12 995 Average 765 1.00 000 Average 1.106 1.30 001 Average 9.947 1.28 002 Average 9.947 1.28 003 Average 1.435 1.81 003 Average 1.435 1.81 004 Average 1.829 2.23 006 Average 2.128 2.68 007 Average 2.345 2.84 008 Average 2.775 3.27 009 Average 2.301 3.02 001 Average 3.050 3.80 001 Average 3.061 W 001 Average 3.061 W 002 Average 3.061 W 003 Average 3.061 W 004 Average 3.061 Average 3.061 Average 3.061 Average 3.061 Average 3.061 Average 3.067 004 Average 3.067 005 Average 3.067 006 Average 3.069 3.98 007 Average 3.069 3.98 007 Average 3.069 3.93 007 Average 3.069 3.93 008 Average 3.049 3.93 009 Average 3.049 3.93 009 Average 3.049 3.93 001 Average 3.049 3.9	6 0.387	0.421	0.400	0.377	0.335
985 Average .912 1.20* 990 Average .883 1.12* 995 Average .765 1.00* 900 Average 1.106 1.30* 901 Average 1.032 1.32* 902 Average .947 1.28* 903 Average 1.156 1.49* 904 Average 1.829 2.23* 905 Average 2.128 2.68* 907 Average 2.345 2.84* 908 Average 2.775 3.27* 909 Average 1.888 2.44* 901 Average 2.301 3.02* 902 Average 1.888 2.44* 901 Average 2.301 3.02* 902 Average 2.301 3.02* 903 Average 2.301 3.02* 904 Average 2.301 3.02* 905 Average 3.050 3.80* 9012 January 2.914 3.73* April 3.405 4.31* May 3.289 W <td>4 .868</td> <td>.902</td> <td>.788</td> <td>.818</td> <td>.482</td>	4 .868	.902	.788	.818	.482
090 Average .883 1.126 195 Average .765 1.000 000 Average 1.106 1.304 1001 Average 1.032 1.32 102 Average 947 1.28 103 Average 1.156 1.49 104 Average 1.435 1.819 205 Average 1.829 2.23 106 Average 2.128 2.68 207 Average 2.345 2.84 208 Average 2.775 3.277 309 Average 1.888 2.44 210 Average 1.888 2.44 210 Average 2.301 3.020 212 January 2.914 3.73 February 3.087 W March 3.389 4.13 April 3.405 4.31 May 3.289 W June 3.061 W August 3.248 4.09 June 3.257 4.26 October 3.261 4.06 November 2.994 3.56		1.030	.849	.789	.717
95 Average		.923	.734	.725	.745
00 Average 1.106 1.300 01 Average 1.032 1.322 02 Average 947 1.281 03 Average 1.156 1.493 04 Average 1.435 1.811 05 Average 2.128 2.632 06 Average 2.345 2.844 08 Average 2.775 3.277 09 Average 1.888 2.44 10 Average 2.301 3.02 11 Average 3.050 3.80 12 January 2.914 3.73 February 3.087 W March 3.389 4.13 April 3.405 4.31 May 3.289 W June 3.061 W July 2.981 W August 3.248 4.09 September 3.357 4.26 October 3.261 4.06 November 2.994 3.56 December 2.828 3.59 Average 3.154 3.97 13		.589	.562	.560	.492
01 Average 1.032 1.32 02 Average 947 1.28 03 Average 1.156 1.49 04 Average 1.435 1.819 05 Average 1.829 2.23 06 Average 2.128 2.68 07 Average 2.345 2.84 08 Average 2.345 2.84 08 Average 1.888 2.44 10 Average 1.888 2.44 10 Average 1.80 3.02 11 Average 3.050 3.80 12 January 2.914 3.73 February 3.087 W March 3.389 4.13 April 3.405 4.31 May 3.289 W June 3.061 W August 3.248 4.09 September 3.357 4.26 October 3.261 4.06 November 2.994 3.56 December 2.828 3.59 Average 3.154 3.97 13		1.123	.927	.935	.603
02 Average .947 1.286 03 Average 1.156 1.493 04 Average 1.435 1.811 105 Average 1.829 2.23 06 Average 2.128 2.68 07 Average 2.345 2.848 08 Average 2.775 3.27 09 Average 1.888 2.44 10 Average 3.050 3.803 11 Average 3.050 3.803 12 January 2.914 3.73 February 3.087 W March 3.389 4.13 April 3.405 4.31 May 3.289 W June 3.061 W July 2.981 W August 3.248 4.09 September 3.357 4.266 November 2.994 3.56 December 2.828 3.59 Average 3.154 3.97 13 January 2.850		1.045	.829	.842	.506
03 Average 1.156 1.493 04 Average 1.435 1.819 05 Average 2.23 2.68 106 Average 2.128 2.68 207 Average 2.345 2.84 208 Average 2.775 3.273 109 Average 1.888 2.44 110 Average 2.301 3.020 111 Average 3.050 3.80 112 January 2.914 3.73 February 3.087 W March 3.389 4.13 April 3.405 4.31 May 3.289 W Jule 3.061 W Muly 2.981 W August 3.248 4.09 September 3.357 4.26 October 3.261 4.06 November 2.994 3.56 December 2.828 3.59 Average 3.154 3.97 13 January 2.850 W February 3.221 4.06 Marc		.990	.737	.762	.419
04 Average 1.435 1.819 15 Average 1.829 2.23' 16 Average 2.128 2.68' 27 Average 2.345 2.84' 28 Average 2.775 3.27' 30 Average 1.888 2.44' 10 Average 2.301 3.02' 11 Average 3.050 3.80' 12 January 2.914 3.73' February 3.087 W March 3.389 4.13' April 3.405 4.31' May 3.289 W June 3.061 W July 2.981 W August 3.248 4.09' September 3.357 4.26' October 3.261 4.06' November 2.994 3.56' December 2.828 3.59' Average 3.154 3.97' 13 January 2.850 W February 3.221 4.06' May 3.188 3.90' Ju		1.224	.933	.944	.577
15 Average 1.829 2.23' 16 Average 2.128 2.68' 17 Average 2.345 2.84' 18 Average 2.775 3.27' 19 Average 1.888 2.44' 10 Average 2.301 3.02' 11 Average 3.050 3.80' 12 January 2.914 3.73' February 3.087 W March 3.389 4.13' April 3.405 4.31' May 3.289 W June 3.061 W July 2.981 W August 3.248 4.09' September 3.357 4.26' November 2.994 3.56' October 3.261 4.06' November 2.994 3.56' Average 3.154 3.97' 13 January 2.850 W February 3.221 4.06' March 3.233 4.02' May 3.188 3.90' July <td></td> <td></td> <td></td> <td>1.243</td> <td>.839</td>				1.243	.839
06 Average 2.128 2.682 07 Average 2.345 2.845 08 Average 2.775 3.27* 19 Average 1.888 2.44* 10 Average 2.301 3.02 11 Average 3.050 3.80 12 January 2.914 3.73 February 3.087 W March 3.389 4.13 April 3.405 4.31 May 3.289 W June 3.061 W July 2.981 W August 3.248 4.09 September 3.357 4.26 October 3.261 4.06 November 2.994 3.56 December 2.828 3.59 Average 3.154 3.97 13 January 2.850 W February 3.221 4.06 March 3.233 4.02 April 3.102 3.86 May 3.188 3.90 June 3.049 </td <td></td> <td>1.160</td> <td>1.173</td> <td></td> <td></td>		1.160	1.173		
07 Average 2.345 2.845 2.775 3.275 19 Average 1.888 2.441 10 Average 2.301 3.020 3.050 3.800 3.800 12 January 2.914 3.732 February 3.087 W March 3.389 4.133 April 3.405 4.311 May 3.289 W June 3.061 W July 2.981 W August 3.248 4.093 September 3.357 4.260 October 3.261 4.064 November 2.994 3.567 December 2.828 3.597 13 January 2.850 W February 3.221 4.066 March 3.233 4.022 April 3.102 3.866 May 3.188 3.900 June 3.184 4.19 July 3.146 4.22 August 3.097 4.296		1.957	1.705	1.786	1.089
08 Average 2.775 3.275 09 Average 1.888 2.441 10 Average 2.301 3.022 11 Average 3.050 3.800 12 January 2.914 3.733 February 3.087 W March 3.389 4.133 April 3.405 4.311 May 3.289 W June 3.061 W July 2.981 W August 3.248 4.09 September 3.357 4.266 November 2.994 3.56 October 3.261 4.06 November 2.994 3.56 October 2.828 3.596 Average 3.154 3.97 13 January 2.850 W February 3.221 4.066 March 3.233 4.022 May 3.188 3.900 June 3.184 4.19 July 3.146 4.22 August 3.097 </td <td></td> <td>2.244</td> <td>1.982</td> <td>2.096</td> <td>1.358</td>		2.244	1.982	2.096	1.358
09 Average 1.888 2.442 10 Average 2.301 3.021 11 Average 3.050 3.803 12 January 2.914 3.732 February 3.087 W March 3.389 4.133 April 3.405 4.313 May 3.289 W June 3.061 W July 2.981 W August 3.248 4.09 September 3.357 4.266 November 2.994 3.56 November 2.994 3.56 November 2.828 3.59 Average 3.154 3.97 13 January 2.850 W February 3.221 4.060 March 3.233 4.022 April 3.102 3.860 May 3.188 3.900 July 3.146 4.122 August 3.097 4.294		2.263	2.241	2.267	1.489
10 Average 2.301 3.021 11 Average 3.050 3.80 12 January 2.914 3.73 February 3.087 W March 3.389 4.13 April 3.405 4.31 May 3.289 W Jule 3.061 W July 2.981 W August 3.248 4.09 September 3.357 4.26 October 3.261 4.06 November 2.994 3.56 December 2.828 3.59 Average 3.154 3.97 13 January 2.850 W February 3.221 4.06 March 3.233 4.02 April 3.102 3.86 May 3.188 3.90 Jule 3.146 4.22 August 3.097 4.29 September 3.059 3.98 October 2.893 3.65 November 2.759 <td< td=""><td></td><td>3.283</td><td>2.986</td><td>3.150</td><td>1.892</td></td<>		3.283	2.986	3.150	1.892
11 Average 3.050 3.803 12 January 2.914 3.732 February 3.087 W March 3.389 4.133 April 3.405 4.311 May 3.289 W June 3.061 W July 2.981 W August 3.248 4.097 September 3.357 4.266 October 3.261 4.064 November 2.994 3.567 December 2.828 3.597 13 January 2.850 W February 3.221 4.066 March 3.233 4.022 March 3.233 4.022 May 3.188 3.900 May 3.188 3.900 July 3.146 4.224 August 3.097 4.294 September 3.059 3.985 November 2.759 3.670 Average 3.049 3.937 14 January 2.816<		2.675	1.962	1.834	1.220
12 January 2.914 3.733 February 3.087 W March 3.389 4.133 April 3.405 4.313 May 3.289 W June 3.061 W July 2.981 W August 3.248 4.093 September 3.357 4.266 November 2.994 3.566 November 2.828 3.598 Average 3.154 3.97 13 January 2.850 W February 3.221 4.066 March 3.233 4.022 April 3.102 3.866 May 3.188 3.900 June 3.184 4.193 July 3.146 4.224 August 3.097 4.294 September 3.059 3.985 November 2.893 3.655 November 2.893 3.655 November 3.059 3.985 November 2.759 3.677 December 2.759 3.677 Average 3.049 3.933 14 January 2.816 W February 2.913 4.144 May 3.245 W June 3.265 W July 3.128	3 2.201	3.063	2.462	2.314	1.481
February 3.087 W March 3.389 4.13 April 3.405 4.31 May 3.289 W June 3.061 W July 2.981 W August 3.248 4.09 September 3.357 4.26 October 3.261 4.06 November 2.994 3.56 December 2.828 3.59 Average 3.154 3.97 13 January 2.850 W February 3.221 4.06 March 3.233 4.022 April 3.102 3.86 May 3.188 3.90 June 3.184 4.19 July 3.146 4.22 August 3.097 4.29 September 3.059 3.98 October 2.893 3.65 November 2.759 3.67 Average<	3 3.054	3.616	3.193	3.117	1.709
February 3.087 W March 3.389 4.13 April 3.405 4.31 May 3.289 W June 3.061 W July 2.981 W August 3.248 4.09 September 3.357 4.26 October 3.261 4.06 November 2.994 3.56 December 2.828 3.59 Average 3.154 3.97 13 January 2.850 W February 3.221 4.06 March 3.233 4.022 April 3.102 3.86 May 3.188 3.90 June 3.184 4.19 July 3.146 4.22 August 3.097 4.29 August 3.097 4.29 September 3.059 3.98 November 2.759 3.67 Average </td <td></td> <td>3.848</td> <td>3.345</td> <td>3.093</td> <td>1.655</td>		3.848	3.345	3.093	1.655
April 3.405 4.313 May 3.289 W June 3.061 W July 2.981 W August 3.248 4.09 September 3.357 4.265 October 3.261 4.066 November 2.994 3.566 December 2.828 3.599 Average 3.154 3.97 13 January 2.850 W February 3.221 4.066 March 3.233 4.022 April 3.102 3.866 May 3.188 3.900 June 3.184 4.19 July 3.146 4.224 August 3.097 4.291 September 3.059 3.985 November 2.893 3.655 November 2.759 3.674 Average 3.049 3.933 14 January 2.816 W February 2.913 4.144 May 3.146 W February 3.049 3.933 14 January 2.816 W February 3.104 W April 3.104 W April 3.104 W April 3.104 W April 3.214 W May 3.245 W June 3.265 W July 3.265 W July 3.265 W July 3.265 W June 3.265 W July 3.286 W	3.206	3.874	3.495	3.224	1.518
May 3.289 W June 3.061 W July 2.981 W August 3.248 4.09 September 3.357 4.26 October 3.261 4.06 November 2.994 3.56 December 2.828 3.59 Average 3.154 3.97 13 January 2.850 W February 3.221 4.06 March 3.233 4.02 April 3.102 3.86 May 3.188 3.90 June 3.184 4.19 July 3.146 4.22 August 3.097 4.29 September 3.059 3.98 October 2.893 3.65 November 2.759 3.67 Average 3.049 3.93 14 January 2.816 W February 2.913 4.14 Ma	3 3.337	3.919	3.522	3.378	1.470
May 3.289 W June 3.061 W July 2.981 W August 3.248 4.09 September 3.357 4.26 October 3.261 4.06 November 2.994 3.56 December 2.828 3.59 Average 3.154 3.97 13 January 2.850 W February 3.221 4.06 March 3.233 4.02 April 3.102 3.86 May 3.188 3.90 June 3.184 4.19 July 3.146 4.22 August 3.097 4.29 September 3.059 3.98 October 2.893 3.65 November 2.759 3.67 Average 3.049 3.93 14 January 2.816 W February 2.913 4.14 Ma	3 3.283	3.916	3.509	3.342	1.352
June 3.061 W July 2.981 W August 3.248 4.09* September 3.357 4.26* October 3.261 4.06* November 2.994 3.56* December 2.828 3.59* Average 3.154 3.97* 13 January 2.850 W February 3.221 4.06* March 3.233 4.02* May 3.188 3.90* May 3.188 3.90* Jule 3.184 4.19* July 3.146 4.22* August 3.097 4.29* September 3.059 3.98* October 2.893 3.65* November 2.759 3.67* December 2.759 3.67* Average 3.049 3.93* 14 January 2.816 W February 2.913 4.14* <td>3.100</td> <td>3.741</td> <td>3.258</td> <td>3.163</td> <td>1.080</td>	3.100	3.741	3.258	3.163	1.080
July 2.981 W August 3.248 4.09 September 3.357 4.26 October 3.261 4.06 November 2.994 3.56 December 2.828 3.599 Average 3.154 3.97 13 January 2.850 W February 3.221 4.06 March 3.233 4.02 April 3.102 3.86 May 3.188 3.90 June 3.184 4.19 July 3.146 4.22 August 3.097 4.29 September 3.059 3.98 November 2.759 3.67 Average 3.049 3.93 14 January 2.816 W February 2.913 4.14 March 3.104 W April 3.214 W July 3.245 W	2.768	3.753	2.982	2.912	.902
August 3.248 4.09 September 3.357 4.26 October 3.261 4.06 November 2.994 3.56 December 2.828 3.59 Average 3.154 3.97 13 January 2.850 W February 3.221 4.06 March 3.233 4.02 April 3.102 3.86 May 3.188 3.90 June 3.184 4.19 July 3.146 4.22 August 3.097 4.298 September 3.059 3.98 October 2.893 3.65 November 2.759 3.67 Average 3.049 3.93 14 January 2.816 W February 2.913 4.14 March 3.104 W April 3.214 W May 3.245 W June 3.265 W	2.856	3.612	3.041	2.989	.972
September 3.357 4.26/ October 3.261 4.06/ November 2.994 3.56/ December 2.828 3.59/ Average 3.154 3.97/ 13 January 2.850 W February 3.221 4.06/ March 3.233 4.022 April 3.102 3.86/ May 3.188 3.90/ June 3.184 4.19 July 3.146 4.22 August 3.097 4.296 August 3.059 3.98 October 2.893 3.65/ November 2.759 3.67/ Average 3.049 3.93/ 14 January 2.816 W February 2.913 4.14/ March 3.104 W April 3.214 W May 3.245 W June 3.265 W		3.575	3.256	3.265	.916
October 3.261 4.06- November 2.994 3.56- December 2.828 3.59- Average 3.154 3.97- 13 January 2.850 W February 3.221 4.06 March 3.233 4.022 April 3.102 3.86 May 3.188 3.900 June 3.184 4.19- July 3.146 4.22- August 3.097 4.29 September 3.059 3.985 October 2.893 3.655 November 2.759 3.670 Average 3.049 3.932 14 January 2.816 W February 2.913 4.142 March 3.104 W April 3.214 W May 3.245 W June 3.265 W		3.771	3.361	3.367	.932
November 2.994 3.56° December 2.828 3.598 Average 3.154 3.97° 13 January 2.850 W February 3.221 4.060 March 3.233 4.022 April 3.102 3.860 May 3.188 3.900 June 3.146 4.12° August 3.097 4.294 September 3.059 3.982 October 2.893 3.65° November 2.759 3.67° Average 3.049 3.93° 14 January 2.816 W February 2.913 4.14° March 3.104 W April 3.214 W May 3.245 W July 3.128 W		3.864	3.486	3.364	.980
December 2.828 3.596 Average 3.154 3.97 13 January 2.850 W February 3.221 4.060 March 3.233 4.022 April 3.102 3.860 May 3.188 3.900 July 3.146 4.22 August 3.097 4.296 August 3.059 3.98 October 2.893 3.657 November 2.759 3.674 Average 3.049 3.932 14 January 2.816 W February 2.913 4.142 March 3.104 W April 3.214 W May 3.245 W July 3.128 W			3.403	3.206	
Average 3.154 3.97 13 January 2.850 W February 3.221 4.06 March 3.233 4.02 April 3.102 3.86 May 3.188 3.90 June 3.184 4.19 July 3.146 4.22 August 3.097 4.296 September 3.059 3.98 October 2.893 3.65 November 2.759 3.676 Average 3.049 3.93 14 January 2.816 W February 2.913 4.14 March 3.104 W April 3.214 W May 3.245 W June 3.265 W July 3.128 W		3.854			.926
February 3.221 4.060 March 3.233 4.022 April 3.102 3.860 May 3.188 3.900 June 3.184 4.19 July 3.146 4.224 August 3.097 4.298 September 3.059 3.982 October 2.893 3.653 November 2.759 3.674 December 2.759 3.674 Average 3.049 3.933 14 January 2.816 W February 2.913 4.142 March 3.104 W April 3.214 W May 3.245 W June 3.265 W July 3.128 W		3.789 3.843	3.321 3.358	3.115 3.202	.840 1.139
February 3.221 4.060 March 3.233 4.022 April 3.102 3.860 May 3.188 3.900 June 3.184 4.19 July 3.146 4.224 August 3.097 4.298 September 3.059 3.982 October 2.893 3.653 November 2.759 3.674 December 2.759 3.674 Average 3.049 3.933 14 January 2.816 W February 2.913 4.142 March 3.104 W April 3.214 W May 3.245 W June 3.265 W July 3.128 W	3.117	3.790	3.341	3.129	.891
March 3.233 4.022 April 3.102 3.866 May 3.188 3.900 June 3.184 4.19 July 3.146 4.22 August 3.097 4.298 September 3.059 3.988 October 2.893 3.650 November 2.759 3.674 December 2.759 3.674 Average 3.049 3.932 4January 2.816 W February 2.913 4.142 March 3.104 W April 3.214 W May 3.245 W June 3.265 W July 3.128 W					
April 3.102 3.860 May 3.188 3.900 June 3.184 4.19* July 3.146 4.22* August 3.097 4.29 September 3.059 3.98* October 2.893 3.65* November 2.759 3.67* Average 3.049 3.93* 14 January 2.816 W February 2.913 4.14* March 3.104 W April 3.214 W May 3.245 W June 3.265 W July 3.128 W		3.887	3.498	3.339	.925
May 3.188 3.90 June 3.184 4.19 July 3.146 4.22 August 3.097 4.298 September 3.059 3.98 October 2.893 3.657 November 2.759 3.674 Average 3.049 3.93 14 January 2.816 W February 2.913 4.142 March 3.104 W April 3.214 W May 3.245 W June 3.265 W July 3.128 W		3.869	3.314	3.204	.943
June 3.184 4.19 July 3.146 4.22 August 3.097 4.29 September 3.059 3.98 October 2.893 3.65 November 2.759 3.67 December 2.759 3.67 Average 3.049 3.93 14 January 2.816 W February 2.913 4.14 March 3.104 W April 3.214 W May 3.245 W June 3.265 W July 3.128 W		3.836	3.217	3.090	.971
July 3.146 4.224 August 3.097 4.296 September 3.059 3.982 October 2.893 3.655 November 2.759 3.674 Average 3.049 3.932 14 January 2.816 W February 2.913 4.142 March 3.104 W April 3.214 W May 3.245 W June 3.265 W July 3.128 W		3.786	3.222	3.058	.953
August 3.097 4.298 September 3.059 3.982 October 2.893 3.657 November 2.759 3.674 December 2.759 3.674 Average 3.049 3.932 14 January 2.816 W February 2.913 4.142 March 3.104 W April 3.214 W May 3.245 W June 3.265 W July 3.128 W		3.634	3.172	3.028	.876
September 3.059 3.982 October 2.893 3.655 November 2.759 3.674 December 2.759 3.674 Average 3.049 3.932 14 January 2.816 W February 2.913 4.142 March 3.104 W April 3.214 W May 3.245 W June 3.265 W July 3.128 W		3.840	3.244	3.099	.935
October 2.893 3.650 November 2.759 3.674 December 2.759 3.674 Average 3.049 3.932 14 January 2.816 W February 2.913 4.142 March 3.104 W April 3.214 W May 3.245 W June 3.265 W July 3.128 W		3.707	3.314	3.169	1.074
November 2.759 3.674 December 2.759 3.674 Average 3.049 3.937 14 January 2.816 W February 2.913 4.147 March 3.104 W April 3.214 W May 3.245 W June 3.265 W July 3.128 W		3.849	3.327	3.184	1.115
December 2.759 3.676 Average 3.049 3.932 14 January 2.816 W February 2.913 4.142 March 3.104 W April 3.214 W May 3.245 W June 3.265 W July 3.128 W		3.852	NA	3.085	1.169
December 2.759 3.676 Average 3.049 3.932 14 January 2.816 W February 2.913 4.142 March 3.104 W April 3.214 W May 3.245 W June 3.265 W July 3.128 W	4 2.883	3.847	NA	3.030	1.222
Average 3.049 3.932 14 January 2.816 W February 2.913 4.144 March 3.104 W April 3.214 W May 3.245 W June 3.265 W July 3.128 W	3.008	W	3.578	3.055	1.322
February 2.913 4.142 March 3.104 W April 3.214 W May 3.245 W June 3.265 W July 3.128 W	2 2.979	3.842	3.335	3.122	1.028
February 2.913 4.142 March 3.104 W April 3.214 W May 3.245 W June 3.265 W July 3.128 W	2.987	W	3.591	3.024	1.457
March 3.104 W April 3.214 W May 3.245 W June 3.265 W July 3.128 W	2 2.994	W	3.687	3.139	1.513
April 3.214 W May 3.245 W June 3.265 W July 3.128 W	2.942	4.067	3.621	3.115	1.137
May 3.245 W June 3.265 W July 3.128 W	2.931	4.108	3.572	3.109	1.122
June 3.265 W July 3.128 W	2.965	4.056	3.546	3.081	1.056
July 3.128 W	2.945	W	3.493	3.064	1.072
,	2.906	3.965	3.428	3.030	1.063
	2.916	3.903	3.408	3.012	1.038
	2.834	3.903 W	3.324	2.925	1.074
October	^R 2.576 2.433	W	^R NA 3.213	2.802 2.698	.994 .904

^a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.

including bulk consumers (such as agriculture, industry, and electric utilities) and residential and commercial consumers. Sales for resale are shown in Table 9.6; they are sales made to purchasers other than ultimate consumers. • Values for the current month are preliminary. • Through 1982, prices are U.S. Energy

Information Administration (EIA) estimates. See Note 6, "Historical Petroleum Prices," at end of section. • Geographic coverage is the 50 states and the District of Columbia.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#prices (Excel and CSV files) for all available annual data beginning in 1978 and monthly data beginning in 1982.

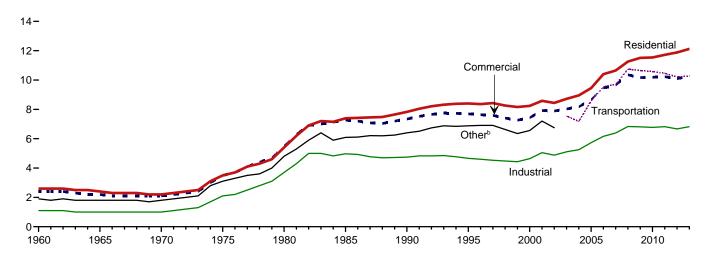
Sources: • 1978–2007: EIA, Petroleum Marketing Annual 2007, Table 2. • 2008 forward: EIA, Petroleum Marketing Monthly, February 2015, Table 2.

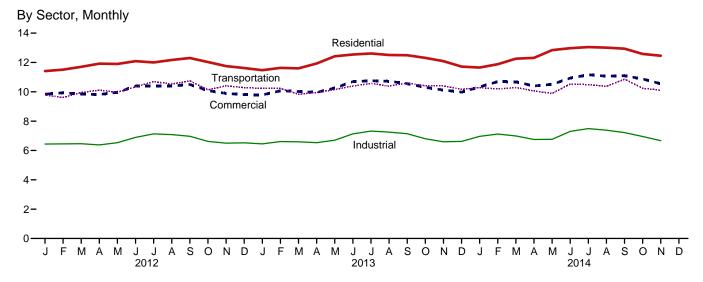
 ^a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.
 ^b See Note 5, "Motor Gasoline Prices," at end of section.
 R=Revised. NA=Not available. W=Value withheld to avoid disclosure of individual company data.
 Notes: • Sales to end users are those made directly to ultimate consumers,

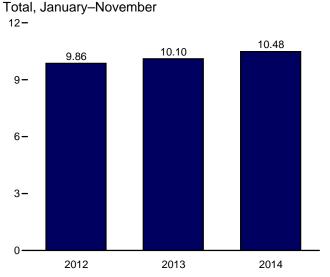
Figure 9.2 Average Retail Prices of Electricity

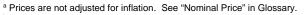
(Cents^a per Kilowatthour)

By Sector, 1960-2013



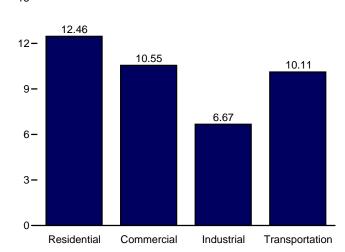






^b Public street and highway lighting, interdepartmental sales, other sales to public authorities, agricultural and irrigation, and transportation including railroads and railways.

By Sector, November 2014



Note: Includes taxes.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#prices. Source: Table 9.8.

Table 9.8 Average Retail Prices of Electricity

(Centsa per Kilowatthour, Including Taxes)

	Residential	Commercialb	Industrialc	Transportationd	Othere	Total
960 Average	2.60	2.40	1.10	NA	1.90	1.80
965 Average	2.40	2.20	1.00	NA	1.80	1.70
	2.20	2.10	1.00	NA NA	1.80	1.70
970 Average						
975 Average	3.50	3.50	2.10	NA	3.10	2.90
980 Average	5.40	5.50	3.70	NA	4.80	4.70
985 Average	7.39	7.27	4.97	NA	6.09	6.44
990 Average	7.83	7.34	4.74	NA	6.40	6.57
995 Average	8.40	7.69	4.66	NA	6.88	6.89
000 Average	8.24	7.43	4.64	NA NA	6.56	6.81
	8.58	7.92	5.05	NA NA	7.20	7.29
01 Average						
02 Average	8.44	7.89	4.88	NA .	6.75	7.20
03 Average	8.72	8.03	5.11	7.54		7.44
04 Average	8.95	8.17	5.25	7.18		7.61
05 Average	9.45	8.67	5.73	8.57		8.14
06 Average	10.40	9.46	6.16	9.54		8.90
	10.65	9.65	6.39	9.70		9.13
07 Average						
08 Average	11.26	10.36	6.83	10.74		9.74
09 Average	11.51	10.17	6.81	10.65		9.82
10 Average	11.54	10.19	6.77	10.57		9.83
11 Average	11.72	10.23	6.82	10.46		9.90
12 January	11.41	9.84	6.44	9.78		9.61
February	11.51	9.94	6.45	9.61		9.58
March	11.70	9.84	6.46	9.95		9.52
April	11.92	9.82	6.38	10.11		9.47
	11.90	9.96	6.53	9.97		9.64
May						
June	12.09	10.39	6.89	10.33		10.13
July	12.00	10.39	7.13	10.70		10.30
August	12.17	10.39	7.08	10.53		10.32
September	12.30	10.50	6.97	10.74		10.26
October	12.03	10.08	6.62	10.13		9.74
November	11.75	9.89	6.50	10.41		9.58
December	11.62	9.81	6.52	10.28		9.64
Average	11.88	10.09	6.67	10.21		9.84
13 January	11.47	9.79	6.45	10.24		9.66
February	11.63	10.07	6.61	10.23		9.79
March	11.60	10.02	6.59	9.83		9.71
April	11.93	9.96	6.53	9.95		9.67
May	12.42	10.26	6.70	10.16		9.95
	12.54	10.70	7.13	10.39		10.47
June						
July	12.61	10.76	7.32	10.57		10.70
August	12.51	10.72	7.25	10.38		10.59
September	12.49	10.56	7.14	10.60		10.43
October	12.31	10.30	6.80	10.41		10.01
November	12.09	10.12	6.59	10.40		9.83
December	11.72	9.98	6.62	10.17		9.88
Average	12.12	10.29	6.82	10.17		10.08
_						
14 January	11.65	10.34	6.96	10.29		10.13
February	11.88	10.70	7.12	10.19		10.35
March	12.26	10.68	6.99	10.29		10.32
April	12.31	10.40	6.75	10.06		10.01
May	12.84	10.51	6.76	9.89		10.21
June	12.97	10.94	7.30	10.53		10.75
	13.05	11.16	7.49	10.49		11.01
July						
August	13.01	11.07	7.38	10.37		10.92
September	12.94	11.10	7.22	10.86		10.80
October	12.58	10.87	6.95	10.24		10.35
November	12.46	10.55	6.67	10.11		10.15
11-Month Average	12.53	10.77	7.06	10.30		10.48
13 11-Month Average	12.16	10.32	6.84	10.29		10.10
	12.10	10.32	0.04			

public authorities, agriculture and irrigation, and transportation including railroads and railways.

NA=Not available. ——=Not applicable.

Notes: • Beginning in 2003, the category "Other" has been replaced by "Transportation." and the categories "Commercial" and "Industrial" have been redefined. • Prices are calculated by dividing revenue by sales. Revenue may not correspond to sales for a particular month because of energy service provider billing and accounting procedures. That lack of correspondence could result in uncharacteristic increases or decreases in the monthly prices. • Prices include state and local taxes, energy or demand charges, customer service charges, environmental surcharges, franchise fees, fuel adjustments, and other miscellaneous charges applied to end-use customers during normal billing operations. Prices do not include deferred charges, credits, or other adjustments, such as fuel or revenue from purchased power, from previous reporting periods.

• Through 1979, data are for Classes A and B privately owned electric utilities only.

(Class A utilities are those with operating revenues of \$2.5 million or more; Class B utilities are those with operating revenues between \$1 million and \$2.5 million.) For 1980–1982, data are for selected Class A utilities whose electric operating revenues were \$100 million or more during the previous year. For 1983, data are for a selected sample of electric utilities. Beginning in 1994, data are for a census of electric utilities. Beginning in 1996, data also include energy service providers selling to retail customers. • See Note 7, "Electricity Retail Prices," at end of section for plant coverage, and for information on preliminary and final values. • Geographic coverage is the 50 states and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#prices (Excel and CSV files) for all available annual data beginning in 1960 and monthly data beginning in 1976.

Sources: • 1960–September 1977: Federal Power Commission, Form FPC-5, "Monthly Statement of Electric Operating Revenues and Income." • October 1977–February 1989. Federal Energy Regulatory Commission (FERC), Form FPC-5, "Monthly Statement of Electric Operating Revenues and Income." • March 1980–1982: FERC, Form FERC-5, "Electric Utility Company Monthly Statement." • 1983: U.S. Energy Information Administration (EIA), Form EIA-826, "Electric Utility Company Monthly Statement." • 1984–2010: EIA, Form EIA-861, "Annual Electric Power Industry Report." • 2011 forward: EIA, Electric Power Monthly, January 2015, Table 5.3. January 2015, Table 5.3.

a Prices are not adjusted for inflation. See "Nominal Price" in Glossary.
 b Commercial sector. For 1960–2002, prices exclude public street and highway lighting, interdepartmental sales, and other sales to public authorities.
 c Industrial sector. For 1960–2002, prices exclude agriculture and irrigation.
 d Transportation sector, including railroads and railways.
 e Public street and highway lighting, interdepartmental sales, other sales to public authorities, agriculture and irrigation, and transportation including railroads and railways.

Figure 9.3 Cost of Fossil-Fuel Receipts at Electric Generating Plants

(Dollars^a per Million Btu, Including Taxes)

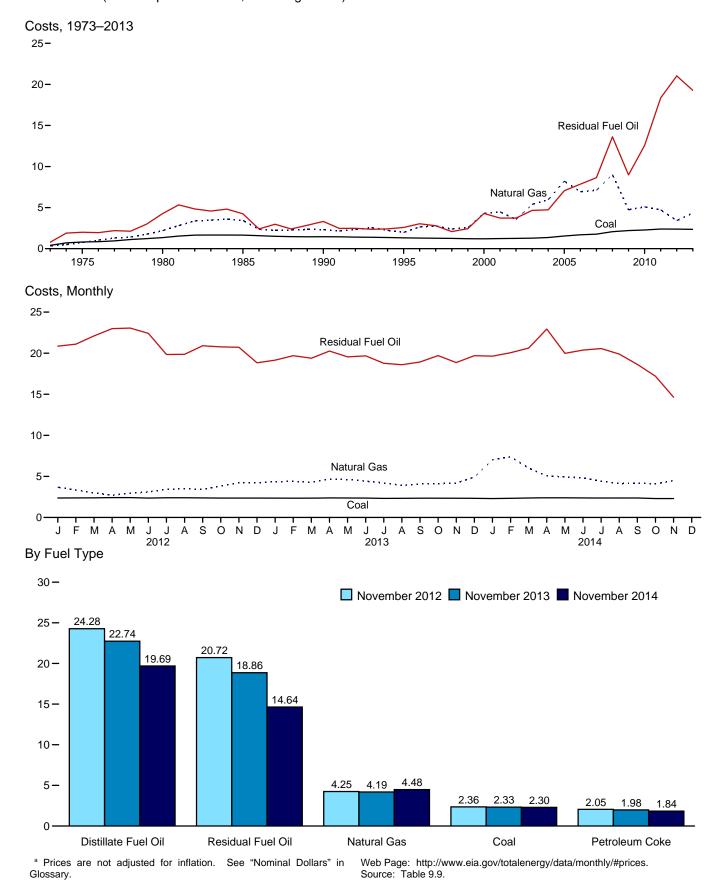


Table 9.9 Cost of Fossil-Fuel Receipts at Electric Generating Plants

(Dollarsa per Million Btu, Including Taxes)

			Petrole	um			
	Coal	Residual Fuel Oilb	Distillate Fuel Oilc	Petroleum Coke	Totald	Natural Gase	All Fossil Fuels
1072 Averege	0.41	0.79	NA	NA	0.80	0.34	0.48
1973 Average							
1975 Average	.81	2.01	NA	NA	2.02	.75	1.04
1980 Average	1.35	4.27	NA	NA	4.35	2.20	1.93
1985 Average	1.65	4.24	NA	NA	4.32	3.44	2.09
1990 Average	1.45	3.32	5.38	.80	3.35	2.32	1.69
1995 Average	1.32	2.59	3.99	.65	2.57	1.98	1.45
2000 Average	1.20	4.29	6.65	.58	4.18	4.30	1.74
2001 Average	1.23	3.73	6.30	.78	3.69	4.49	1.73
	1.25	3.73	5.34	.78	3.34	3.56	1.86
2002 Average ^g							
2003 Average	1.28	4.66	6.82	.72	4.33	5.39	2.28
2004 Average	1.36	4.73	8.02	.83	4.29	5.96	2.48
2005 Average	1.54	7.06	11.72	1.11	6.44	8.21	3.25
2006 Average	1.69	7.85	13.28	1.33	6.23	6.94	3.02
2007 Average	1.77	8.64	14.85	1.51	7.17	7.11	3.23
2008 Average	2.07	13.62	21.46	2.11	10.87	9.01	4.12
2009 Average	2.21	8.98	13.22	1.61	7.02	4.74	3.04
2010 Average	2.27	12.57	16.61	2.28	9.54	5.09	3.26
2011 Average	2.39	18.35	22.46	3.03	12.48	4.72	3.29
012 January	2.37	20.86	22.94	2.43	12.79	3.69	2.86
February	2.38	21.10	23.81	2.30	12.66	3.34	2.77
March	2.39	22.10	24.96	1.90	12.88	2.99	2.69
April	2.42	22.99	24.61	2.11	12.92	2.71	2.61
May	2.42	23.06	23.24	2.57	13.66	2.94	2.70
June	2.36	22.41	21.63	2.32	13.73	3.11	2.76
July	2.40	19.84	21.92	2.41	14.50	3.43	2.92
August	2.40	19.86	23.38	2.45	12.61	3.50	2.89
	2.38						
September		20.90	24.42	2.39	10.35	3.41	2.81
October	2.36	20.77	24.93	2.00	11.50	3.84	2.91
November	2.36	20.72	24.28	2.05	11.71	4.25	2.99
December	2.36	18.83	23.44	2.06	10.98	4.21	3.01
Average	2.38	21.03	23.49	2.24	12.48	3.42	2.83
2013 January	2.35	19.15	22.93	2.02	12.50	4.38	3.09
February	2.35	19.70	23.82	W	W	4.39	W
March	2.35	19.39	23.85	W	W	4.29	W
April	2.38	20.26	22.92	2.26	9.73	4.67	3.16
May	2.37	19.55	22.59	2.32	10.81	4.62	3.16
June	2.36	19.68	22.37	2.39	10.11	4.42	3.15
July	2.32	18.77	23.11	2.27	11.44	4.20	3.12
	2.33	18.60	23.16	2.23	11.81	3.91	3.00
August							
September	2.35	18.93	23.50	2.15	10.14	4.08	3.02
October	2.35	19.71	22.84	2.11	11.28	4.11	3.00
November	2.33	18.86	22.74	1.98	12.24	4.19	3.01
December	2.34	19.70	23.21	1.99	10.96	4.91	3.28
Average	2.35	19.27	23.05	2.16	11.56	4.33	3.10
014 January	2.30	19.64	23.12	1.73	16.65	7.03	4.09
February	2.33	20.06	23.96	W	W	7.39	W
March	2.37	20.62	23.82	2.00	12.69	6.00	3.53
April	2.40	22.94	22.82	2.11	10.66	5.07	3.26
May	2.39	19.98	22.69	2.18	9.88	4.93	3.26
June	2.38	20.38	22.73	2.05	10.74	4.82	3.27
July	2.37	20.56	22.36	1.88	10.12	4.43	3.17
				1.95		4.43	
August	2.37	19.89	21.95		9.83		3.07
September	2.37	18.64	21.32	1.90	10.10	4.19	3.07
October	2.30	17.19	20.09	1.77	10.73	4.09	2.97
November	2.30	14.64	19.69	1.84	10.55	4.48	3.06
11-Month Average	2.35	19.23	22.46	1.96	12.13	5.04	3.34
_							
2013 11-Month Average	2.35	19.24 21.24	23.04 23.49	2.18 2.26	11.62 12.65	4.28	3.08 2.82

^a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.

commercial and industrial sectors.

NA=Not available. W=Value withheld to avoid disclosure of individual company

data.

Notes: • Receipts are purchases of fuel. • Yearly costs are averages of monthly values, weighted by quantities in Btu. • For this table, there are several breaks in the data series related to what plants and fuels are covered. Beginning in 2013, data cover all regulated generating plants; plus unregulated plants whose total fossil-fueled nameplate generating capacity is 50 megawatts or more for coal, and 200 megawatts or more for natural gas, residual fuel oil, distillate fuel oil, and petroleum coke. For data coverage before 2013, see EIA, Electric Power Monthly, Appendix C, Form EIA-923 notes, "Receipts and cost and quality of fossil fuels" section. • Geographic coverage is the 50 states and the District of Columbia.

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

Sources: See end of section.

Sources: See end of section.

Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.
b For 1973–2001, electric utility data are for heavy oil (fuel oil nos. 5 and 6, and small amounts of fuel oil no. 4).

small amounts or ruel oil no. 4).

^c For 1973–2001, electric utility data are for light oil (fuel oil nos. 1 and 2).

^d For all years, includes residual fuel oil and distillate fuel oil. For 1990 forward, also includes petroleum coke. For 1973–2012, also includes jet fuel, kerosene, and waste oil. For 1983–2012, also includes other petroleum, such as propane and

^e Natural gas, plus a small amount of supplemental gaseous fuels. For 1973–2000, data also include a small amount of blast furnace gas and other gases

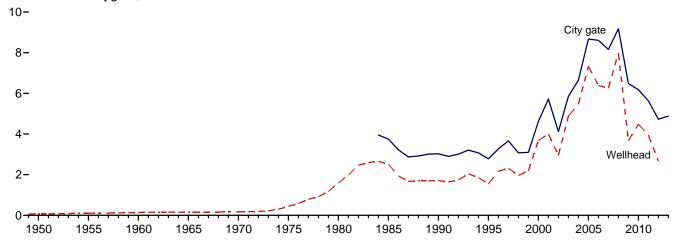
derived from fossil fuels. ${}^{\rm f}$ Weighted average of costs shown under "Coal," "Petroleum," and "Natural

Gas." $^{\rm g}$ Through 2001, data are for electric utilities only. Beginning in 2002, data also include independent power producers, and electric generating plants in the

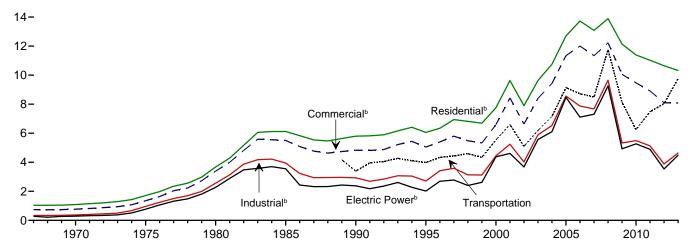
Figure 9.4 Natural Gas Prices

(Dollars^a per Thousand Cubic Feet)

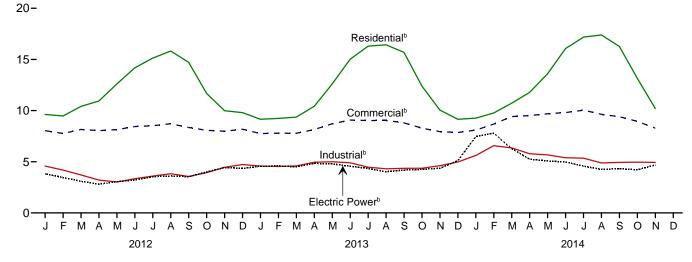
Wellhead and Citygate, 1949-2013



Consuming Sectors, 1967-2013



Consuming Sectors, Monthly



^a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.

^b Includes taxes.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#prices. Source: Table 9.10.

Table 9.10 Natural Gas Prices

(Dollarsa per Thousand Cubic Feet)

						C	onsuming	Sectorsb			
		City-	Res	idential	Com	mercial ^c	Ind	ustriald	Transportation	Electr	ic Powere
	Wellhead Price ^f	gate Price ⁹	Priceh	Percentage of Sector	Priceh	Percentage of Sector ⁱ	Price ^h	Percentage of Sector ⁱ	Vehicle Fuel ^j Price ^h	Priceh	Percentage of Sector ^{I,k}
1950 Average	0.07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1955 Average	.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1960 Average	.14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1965 Average	.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1970 Average	.17	NA	1.09	NA	.77	ŅĄ	.37	NA	NA	.29	NA
1975 Average	.44	NA	1.71	NA	1.35	NA	.96	NA	NA	.77	96.1
1980 Average	1.59	NA	3.68	NA	3.39	NA	2.56	NA	NA	2.27	96.9
1985 Average	2.51 1.71	3.75 3.03	6.12 5.80	NA 99.2	5.50 4.83	NA 86.6	3.95 2.93	68.8 35.2	NA 3.39	3.55	94.0 76.8
1990 Average	1.55	3.03 2.78	6.06	99.2 99.0	4.83 5.05	76.7	2.93	35.2 24.5	3.39 3.98	2.38 2.02	76.8 71.4
1995 Average	3.68	4.62	7.76	92.6	6.59	63.9	4.45	19.8	5.54	4.38	50.5
2000 Average 2001 Average	4.00	5.72	9.63	92.4	8.43	66.0	5.24	20.8	6.60	4.61	40.2
2002 Average	2.95	4.12	7.89	97.9	6.63	77.4	4.02	22.7	5.10	e 3.68	83.9
2003 Average	4.88	5.85	9.63	97.5	8.40	78.2	5.89	22.1	6.19	5.57	91.2
2004 Average	5.46	6.65	10.75	97.7	9.43	78.0	6.53	23.6	7.16	6.11	89.8
2005 Average	7.33	8.67	12.70	98.1	11.34	82.1	8.56	24.0	9.14	8.47	91.3
2006 Average	6.39	8.61	13.73	98.1	12.00	80.8	7.87	23.4	8.72	7.11	93.4
2007 Average	6.25	8.16	13.08	98.0	11.34	80.4	7.68	22.2	8.50	7.31	92.2
2008 Average	7.97	9.18	13.89	97.5	12.23	79.7	9.65	20.4	11.75	9.26	101.1
2009 Average	3.67	6.48	12.14	97.4	10.06	77.8	5.33	18.8	8.13	4.93	101.1
2010 Average	4.48	6.18	11.39	97.4	9.47	77.5	5.49	18.0	6.25	5.27	100.8
2011 Average	3.95	5.63	11.03	96.3	8.91	67.3	5.13	16.3	7.48	4.89	101.2
2012 January	E 2.89	4.85	9.62	96.3	8.04	71.5	4.58	16.1	NA	3.82	95.0
February	E 2.46	4.73	9.47	96.2	7.76	70.1	4.19	16.2	NA	3.46	95.3
March	E 2.25	4.84	10.41	96.2	8.16	68.1	3.71	16.0	NA	3.09	95.2
April	E 1.89	4.19	10.94	95.5	8.04	62.8	3.21	15.5	NA	2.81	96.4
May	E 1.94	4.30	12.61	95.4	8.14	59.2	3.02	15.6	NA	3.05	96.0
June	E 2.54	4.63	14.18	95.5	8.44	59.1	3.34	15.6	NA	3.21	95.8
July	E 2.59 E 2.86	4.88	15.13	95.5	8.52	57.9	3.60	16.1	NA	3.54	95.8
August	E 2.71	5.13 4.76	15.82 14.72	94.9 95.0	8.71	55.9 56.4	3.83 3.56	16.6 16.5	NA NA	3.61 3.54	95.2
September	E 3.03	4.76	11.68	95.0 95.1	8.35 8.07	56.4 59.9	3.56	16.3	NA NA	4.00	96.0 95.9
October November	E 3.35	4.79	9.99	95.3	7.99	65.3	4.46	16.9	NA	4.43	94.3
December	E 3.35	4.79	9.80	95.7	8.18	67.6	4.73	17.0	NA	4.35	94.4
Average	E 2.66	4.73	10.65	95.8	8.10	65.2	3.88	16.2	8.04	3.54	95.5
2013 January	NA	4.52	9.15	95.9	7.75	70.5	4.58	17.0	NA	4.56	95.2
February	NA	4.56	9.24	95.6	7.79	70.0	4.54	17.0	NA	4.59	94.5
March	NA	4.75	9.36	95.4	7.78	69.1	4.59	16.8	NA	4.50	94.9
April	NA	5.16	10.43	95.0	8.15	66.5	4.95	16.9	NA	4.84	95.3
May	NA	5.55	12.61	95.1	8.71	62.9	5.00	16.2	NA	4.79	95.4
June	NA	5.74	15.02	94.8	9.07	58.7	4.90	16.0	NA	4.56	95.1
July	NA	5.51	16.30	94.8	9.03	57.0	4.47	15.8	NA	4.34	94.6
August	NA	5.24	16.43	94.7	9.04	56.5	4.31	15.9	NA	4.03	94.6
September	NA	5.21	15.69	94.8	8.80	56.9	4.36	16.3	NA	4.19	95.1
October	NA	4.88	12.38	95.0	8.28	60.8	4.37	16.6	NA	4.26	94.9
November	NA	4.78	10.05	95.4	7.94	66.0	4.62	16.9	NA	4.36	93.9
December Average	NA NA	4.91 4.88	9.15 10.32	95.7 95.4	7.86 8.08	69.8 66.1	4.98 4.64	17.4 16.6	NA 9.76	5.11 4.49	94.9 94.9
2014 January	NA	5.59	R 9.26	R 95.7	8.10	R 71.0	5.62	16.5	NA	7.46	95.1
	NA NA	6.31	9.77	R 95.5	8.68	R 70.7	6.57	17.0	NA NA	7.46	93.2
February March	NA NA	6.56	10.72	R 95.4	R 9.42	R 69.3	6.35	16.9	NA NA	6.28	94.9
April	NA	5.63	R 11.79	R 95.3	R 9.52	R 65.2	R 5.78	16.0	NA	5.25	95.4
May	NA	R 5.89	R 13.60	R 95.4	R 9.69	R 60.7	R 5.67	R 16.0	NA	5.08	94.7
June	NA	R 6.01	16.06	R 95.5	R 9.81	R 58.2	R 5.39	15.8	NA	4.98	95.3
July	NA	5.97	17.18	94.3	R 10.04	R 55.9	5.35	15.8	NA	4.57	94.9
August	NA	5.48	17.39	R 95.6	9.64	^R 55.6	4.88	15.6	NA	4.25	95.3
September	NA	^R 5.48	R 16.27	^R 95.6	R 9.40	^R 55.8	R 4.94	15.1	NA	4.33	94.2
October	NA	R 5.18	13.15	95.3	8.95	59.0	4.96	14.8	NA	4.22	94.7
November	NA	4.92	10.21	95.8	8.28	66.0	4.94	15.8	NA	4.68	94.8
11-Month Average	NA	5.79	11.13	95.5	8.96	65.6	5.53	16.0	NA	5.24	94.8
2013 11-Month Average 2012 11-Month Average	NA ^E 2.59	4.87 4.72	10.55 10.79	95.4 95.8	8.13 8.09	65.6 64.9	4.61 3.79	16.5 16.1	NA NA	4.43 3.48	94.9 95.6

a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.

b See Note 8, "Natural Gas Prices," at end of section.

c Commercial sector, including commercial combined-heat-and-power (CHP) and commercial electricity-only plants. See Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7.

d Industrial sector, including industrial combined-heat-and-power (CHP) and industrial electricity-only plants. See Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7.

e 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. Through 2001, data are for electric utilities only; beginning in 2002, data also include independent power producers.
f See "Natural Gas Wellhead Price" in Glossary.
g See "Citygate" in Glossary.
Includes taxes.
The percentage of the sector's consumption in Table 4.3 for which price data

[&]quot;Includes taxes.

i The percentage of the sector's consumption in Table 4.3 for which price data are available. For details on how the percentages are derived, see Table 9.10 sources at end of section.

^j Much of the natural gas delivered for vehicle fuel represents deliveries to fueling stations that are used primarily or exclusively by fleet vehicles. Thus, the prices are often those associated with the cost of gas in the operation of fleet vehicles.

prices are other uruse associated in the vehicles.

k Percentages exceed 100 percent when reported natural gas receipts are greater than reported natural gas consumption—this can occur when combined-heat-and-power plants report fuel receipts related to non-electric activities.

combined-heat-and-power plants report fuel receipts related to non-electric generating activities.

R=Revised. NA=Not available. E=Estimate.

Notes: • Prices are for natural gas, plus a small amount of supplemental gaseous fuels. • Prices are intended to include all taxes. See Note 8, "Natural Gas Prices," at end of section. • Wellhead annual and year-to-date prices are simple averages of the monthly prices; all other annual and year-to-date prices are volume-weighted averages of the monthly prices. • Geographic coverage is the 50 states and the District of Columbia.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#prices (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1976.

Sources: See end of section.

Energy Prices

Note 1. Crude Oil Refinery Acquisition Costs. Beginning with January 1981, refiner acquisition costs of crude oil are from data collected on U.S. Energy Information Administration (EIA) Form EIA-14, "Refiners' Monthly Cost Report." Those costs were previously published from data collected on Economic Regulatory Administration (ERA) Form ERA-49, "Domestic Crude Oil Entitlements Program Refiners Monthly Report." Form ERA-49 was discontinued with the decontrol of crude oil on January 28, 1981. Crude oil purchases and costs are defined for Form EIA-14 in accordance with conventions used for Form ERA-49. The respondents for the two forms are also essentially the same. However, due to possible different interpretations of the filing requirements and a different method for handling prior period adjustments, care must be taken when comparing the data collected on the two forms.

The refiner acquisition cost of crude oil is the average price paid by refiners for crude oil booked into their refineries in accordance with accounting procedures generally accepted and consistently and historically applied by the refiners concerned. Domestic crude oil is that oil produced in the United States or from the outer continental shelf as defined in 43 USC Section 1331. Imported crude oil is either that oil reported on Form ERA-51, "Transfer Pricing Report," or any crude oil that is not domestic oil. The composite cost is the weighted average of domestic and imported crude oil costs.

Crude oil costs and volumes reported on Form ERA-49 excluded unfinished oils but included the Strategic Petroleum Reserve (SPR). Crude oil costs and volumes reported on Federal Energy Administration (FEA) Form FEA-P110-M-1, "Refiners' Monthly Cost Allocation Report," included unfinished oils but excluded SPR. Imported averages derived from Form ERA-49 exclude oil purchased for SPR, whereas the composite averages derived from Form ERA-49 include SPR. None of the prices derived from Form EIA-14 include either unfinished oils or SPR.

Note 2. Crude Oil Domestic First Purchase Prices. The average domestic first purchase price represents the average price at which all domestic crude oil is purchased. Crude oil domestic first purchase prices were derived as follows: for 1949–1973, weighted average domestic first purchase values as reported by state agencies and calculated by the Bureau of Mines; for 1974 and 1975, weighted averages of a sample survey of major first purchasers' purchases; for 1976 forward, weighted averages of all first purchasers' purchases. The data series was previously called "Actual Domestic Wellhead Price."

Note 3. Crude Oil F.O.B. Costs. F.O.B. literally means "Free on Board." It denotes a transaction whereby the seller makes the product available with an agreement on a given port at a given price; it is the responsibility of the buyer to arrange for the transportation and insurance.

Note 4. Crude Oil Landed Costs. The landed cost of imported crude oil from selected countries does not represent the total cost of all imported crude. Prior to April 1975, imported crude costs to U.S. company-owned refineries in the Caribbean were not included in the landed cost, and costs of crude oil from countries that export only small amounts to the United States were also excluded. Beginning in April 1975, however, coverage was expanded to include U.S. company-owned refineries in the Caribbean. Landed costs do not include supplemental fees.

Note 5. Motor Gasoline Prices. Several different series of motor gasoline prices are published in this section. U.S. city average retail prices of motor gasoline by grade are calculated monthly by the Bureau of Labor Statistics during the development of the Consumer Price Index (CPI). These prices include all federal, state, and local taxes paid at the time of sale. Prior to 1977, prices were collected in 56 urban areas. From 1978 forward, prices are collected from a new sample of service stations in 85 urban areas selected to represent all urban consumers—about 80 percent of the total U.S. population. The service stations are selected initially, and on a replacement basis, in such a way that they represent the purchasing habits of the CPI population. Service stations in the current sample include those providing all types of service (i.e., full-, mini-, and self-serve).

Regular motor gasoline prices by area type are determined by EIA in a weekly survey of retail motor gasoline outlets (Form EIA-878, "Motor Gasoline Price Survey"). Prices include all federal, state, and local taxes paid at the time of sale. A representative sample of outlets by geographic area and size is randomly selected from a sampling frame of approximately 115,000 retail motor gasoline outlets. Monthly and annual prices are simple averages of weighted weekly estimates from "Weekly U.S. Retail Gasoline Prices, Regular Grade." For more information on the survey methodology, see EIA, *Weekly Petroleum Status Report*, Appendix B, "Weekly Petroleum Price Surveys" section.

Refiner prices of finished motor gasoline for resale and to end users are determined by EIA in a monthly survey of refiners and gas plant operators (Form EIA-782A). The prices do not include any federal, state, or local taxes paid at the time of sale. Estimates of prices prior to January 1983 are based on Form FEA-P302-M-1/EIA-460, "Petroleum Industry Monthly Report for Product Prices," and also exclude all federal, state, or local taxes paid at the time of sale. Sales for resale are those made to purchasers who are other-than-ultimate consumers. Sales to end users are sales made directly to the consumer of the product, including bulk consumers (such as agriculture, industry, and utilities) and residential and commercial consumers.

Note 6. Historical Petroleum Prices. Starting in January 1983, Form EIA-782, "Monthly Petroleum Product Sales Report," replaced 10 previous surveys. Every attempt was made to continue the most important price series. However, prices published through December 1982 and those

published since January 1983 do not necessarily form continuous data series due to changes in survey forms, definitions, instructions, populations, samples, processing systems, and statistical procedures. To provide historical data, continuous series were generated for annual data 1978-1982 and for monthly data 1981 and 1982 by estimating the prices that would have been published had Form EIA-782 survey and system been in operation at that time. This form of estimation was performed after detailed adjustment was made for product and sales type matching and for discontinuity due to other factors. An important difference between the previous and present prices is the distinction between wholesale and resale and between retail and end user. The resale category continues to include sales among resellers. However, sales to bulk consumers, such as utility. industrial, and commercial accounts previously included in the wholesale category, are now counted as made to end users. The end-user category continues to include retail sales through company-owned and operated outlets but also includes sales to the bulk consumers such as agriculture, industry, and electric utilities. Additional information may be found in "Estimated Historic Time Series for the EIA-782," a feature article by Paula Weir, printed in the December 1983 [3] Petroleum Marketing Monthly, published by EIA.

Note 7. Electricity Retail Prices. Average annual retail prices of electricity have the following plant coverage: Through 1979, annual data are for Classes A and B privately owned electric utilities only. For 1980–1982, annual data are for selected Class A utilities whose electric operating revenues were \$100 million or more during the previous year. For 1983, annual data are for a selected sample of electric utilities. Beginning in 1984, data are for a census of electric utilities. Beginning in 1996, annual data also include energy service providers selling to retail customers.

Average monthly retail prices of electricity have the following plant coverage: Through 1985, monthly data are derived from selected privately owned electric utilities and, therefore, are not national averages. Beginning in 1986, monthly data are based on a sample of publicly and privately owned electric utilities. Beginning in 1996, monthly data also include energy service providers selling to retail customers.

Preliminary monthly data are from Form EIA-826, "Monthly Electric Sales and Revenue Report With State Distributions Report," which is a monthly collection of data from approximately 450 of the largest publicly and privately owned electric utilities as well as a census of energy service providers with retail sales in deregulated states; a model is then applied to the collected data to estimate for the entire universe of U.S. electric utilities. Preliminary annual data are the sum of the monthly revenues divided by the sum of the monthly sales. When final annual data become available each year from Form EIA-861, "Annual Electric Power Industry Report," their ratios

to the preliminary Form EIA-826 values are used to derive adjusted final monthly values.

Note 8. Natural Gas Prices. Natural gas prices are intended to include all taxes. Instructions on the data collection forms specifically direct that all federal, state, and local taxes, surcharges, and/or adjustments billed to consumers are to be included. However, sales and other taxes itemized on more than 3,000 consumers' bills are sometimes excluded by the reporting utilities. Deliveredto-consumers prices for 1987 forward represent natural gas delivered and sold to residential, commercial, industrial, vehicle fuel, and electric power consumers. They do not include the price of natural gas delivered on behalf of third parties to residential, commercial, industrial, and vehicle fuel customers except for certain states in the residential and commercial sectors for 2002 forward. Volumes of natural gas delivered on behalf of third parties are included in the consumption data shown in Table 4.3. Additional information is available in EIA, Natural Gas Monthly, Appendix C.

Table 9.1 Sources

Domestic First Purchase Price

1949–1976: U.S. Department of the Interior (DOI), Bureau of Mines (BOM), *Minerals Yearbook*, "Crude Petroleum and Petroleum Products" chapter.

1977: Federal Energy Administration, based on Form FEA-P124, "Domestic Crude Oil Purchaser's Monthly Report." 1978–2011: U.S. Energy Information Administration (EIA), *Petroleum Marketing Annual 2009*, Table 1.

2012 forward: EIA, *Petroleum Marketing Monthly*, February 2015, Table 1.

F.O.B. and Landed Cost of Imports

October 1973–September 1977: Federal Energy Administration, Form FEA-F701-M-0, "Transfer Pricing Report."

October–December 1977: EIA, Form FEA-F701-M-0, "Transfer Pricing Report."

1978–2011: EIA, *Petroleum Marketing Annual 2009*, Table 1.

2012 forward: EIA, *Petroleum Marketing Monthly*, February 2015, Table 1.

Refiner Acquisition Cost

1968–1973: EIA estimates. The cost of domestic crude oil was derived by adding estimated transportation costs to the reported average domestic first purchase price. The cost of imported crude oil was derived by adding an estimated ocean transport cost based on the published "Average Freight Rate Assessment" to the average "Free Alongside Ship" value published by the U.S. Bureau of the Census.

1974–1976: DOI, BOM, *Minerals Yearbook*, "Crude Petroleum and Petroleum Products" chapter.

1977: January–September, FEA, based on Form FEA-P110-M-1, "Refiners' Monthly Cost Allocation Report."

1977: October–December, EIA, based on Form FEA-P110-M-1, "Refiners' Monthly Cost Allocation Report."

1978–2011: EIA, Petroleum Marketing Annual 2009, Table

2012 forward: EIA, *Petroleum Marketing Monthly*, February 2015, Table 1.

Table 9.2 Sources

October 1973–September 1977: Federal Energy Administration, Form FEA-F701-M-0, "Transfer Pricing Report." October 1977–December 1977: U.S. Energy Information Administration (EIA), Form FEA-F701-M-0, "Transfer Pricing Report."

1978–2011: EIA, *Petroleum Marketing Annual* 2007, Table 21.

2012 forward: EIA, *Petroleum Marketing Monthly*, February 2015, Table 21.

Table 9.9 Sources

1973–September 1977: Federal Power Commission, Form FPC-423, "Monthly Report of Cost and Quality of Fuels for Electric Utility Plants."

October 1977–December 1977: Federal Energy Regulatory Commission, Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Utility Plants."

1978 and 1979: U.S. Energy Information Administration (EIA), Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Utility Plants."

1980-1989: EIA, Electric Power Monthly, May issues.

1990–2000: EIA, *Electric Power Monthly*, March 2003, Table 26.

2001–2007: EIA, *Electric Power Monthly*, October 2008, Table 4.1; Federal Energy Regulatory Commission, Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Utility Plants"; and EIA, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report."

2008 forward: EIA, *Electric Power Monthly*, January 2015, Table 4.1; and Form EIA-923, "Power Plant Operations Report."

Table 9.10 Sources

All Prices Except Vehicle Fuel and Electric Power

1949–2011: U.S. Energy Information Administration (EIA), *Natural Gas Annual (NGA)*, annual reports and unpublished revisions.

2012 forward: EIA, *Natural Gas Monthly (NGM)*, January 2015, Table 3.

Vehicle Fuel Price

1989 forward: EIA, NGA, annual reports.

Electric Power Sector Price

1967-1972: EIA, NGA, annual reports.

1973–1998: EIA, NGA 2000, Table 96.

1999-2002: EIA, NGM, October 2004, Table 4.

2003–2007: Federal Energy Regulatory Commission, Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Utility Plants," and EIA, Form EIA-423 "Monthly Cost and Quality of Fuels for Electric Plants Report."

2008 forward: Form EIA-923, "Power Plant Operations Report."

Percentage of Residential Sector

1989–2011: EIA, Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition." Calculated as the total amount of natural gas delivered to residential consumers minus the amount delivered for the account of others, and then divided by the total amount delivered to residential consumers.

2012 forward: EIA, Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

Percentage of Commercial Sector

1987–2011: EIA, NGA, annual reports. Calculated as the total amount of natural gas delivered to commercial consumers minus the amount delivered for the account of others, and then divided by the total amount delivered to commercial consumers.

2012 forward: EIA, NGM, January 2015, Table 3.

Percentage of Industrial Sector

1982–2011: EIA, NGA, annual reports. Calculated as the total amount of natural gas delivered to industrial consumers minus the amount delivered for the account of others, and then divided by the total amount delivered to industrial consumers. 2012 forward: EIA, NGM, January 2015, Table 3.

Percentage of Electric Power Sector

1973–2001: Calculated by EIA as the quantity of natural gas receipts by electric utilities reported on Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Utility Plants" (and predecessor forms) divided by the quantity of natural gas consumed by the electric power sector (for 1973–1988, see *Monthly Energy Review (MER)*, Table 7.3b; for 1989–2001, see MER, Table 7.4b).

2002–2007: Calculated by EIA as the quantity of natural gas receipts by electric utilities and independent power producers reported on Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Utility Plants," and EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report," divided by the quantity of natural gas consumed by the electric power sector (see MER, Table 7.4b).

2008 forward: Calculated by EIA as the quantity of natural gas receipts by electric utilities and independent power producers reported on Form EIA-923, "Power Plant Operations Report," divided by the quantity of natural gas consumed by the electric power sector (see MER, Table 7.4b).

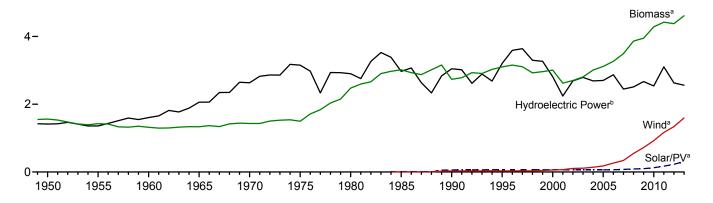
10. Renewable Energy

Figure 10.1 Renewable Energy Consumption

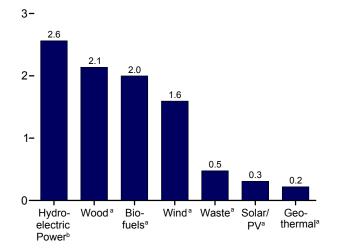
(Quadrillion Btu)

Total and Major Sources, 1949-2013

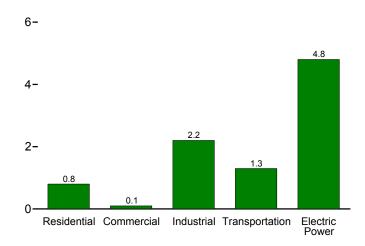
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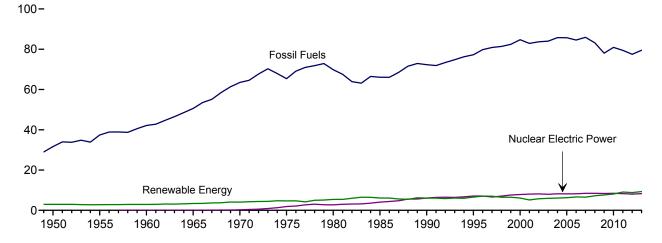
By Source, 2013



By Sector, 2013



Compared With Other Resources, 1949–2013



^a See Table 10.1 for definition.

^b Conventional hydroelectric power.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#renewable. Sources: Tables 1.3 and 10.1–10.2c.

Table 10.1 Renewable Energy Production and Consumption by Source (Trillion Btu)

		Production	a					Consumpti	on			
	Bior	nass	_Total						Bion	nass		Total
	Bio- fuels ^b	Total ^c	Renew- able Energy ^d	Hydro- electric Power ^e	Geo- thermal ^f	Solar/ PV ⁹	Wind ^h	Wood ⁱ	Waste ^j	Bio- fuels ^k	Total	Renew- able Energy
1950 Total	NA	1,562	2,978	1,415	NA	NA	NA	1,562	NA	NA	1,562	2,978
1955 Total	NA	1,424	2,784 2.928	1,360	NA (a)	NA	NA	1,424	NA	NA	1,424	2,784 2,928
1960 Total	NA NA	1,320 1.335	2,928 3.396	1,608 2.059	(s) 2	NA NA	NA NA	1,320 1,335	NA NA	NA NA	1,320 1.335	2,928 3.396
1970 Total	NA	1,431	4,070	2,634	6	NA	NA	1,429	2	NA	1,431	4,070
1975 Total 1980 Total	NA NA	1,499 2,475	4,687 5,428	3,155 2,900	34 53	NA NA	NA NA	1,497 2,474	2 2	NA NA	1,499 2,475	4,687 5,428
1985 Total	93	3.016	6.084	2,970	97	(s)		2,687	236	93	3.016	6.084
1990 Total	111	2,735	6,041	3,046	171	59	(s) 29	2,216	408	111	2,735	6,041
1995 Total 2000 Total	198 233	3,099 3,006	6,558 6,104	3,205 2,811	152 164	69 66	33 57	2,370 2,262	531 511	200 236	3,101 3,008	6,560 6.106
2001 Total	254	2,624	5,164	2,242	164	64	70	2,006	364	253	2,622	5,163
2002 Total	308	2,705	5,734	2,689	171	63	105	1,995	402	303	2,701	5,729
2003 Total 2004 Total	402 487	2,805 2,998	5,947 6,069	2,793 2,688	173 178	62 63	113 142	2,002 2,121	401 389	404 499	2,807 3,010	5,948 6,081
2005 Total	564	3,104	6,229	2,703	181	63	178	2,137	403	577	3,117	6,242
2006 Total	720	3,216	6,599	2,869	181	68	264	2,099	397	771	3,267	6,649
2007 Total 2008 Total	978 1,387	3,480 3,881	6,528 7,219	2,446 2,511	186 192	76 89	341 546	2,089 2,059	413 435	990 1,370	3,492 3,865	6,541 7,202
2009 Total	1,584	3,967	7,655	2,669	200	98	721	1,931	452	1,568	3,950	7,638
2010 Total 2011 Total	1,884 2,044	4,332 4,516	8,128 9,170	2,539 3,103	208 212	126 171	923 1,168	1,981 2,010	468 462	1,837 1,948	4,285 4,420	8,081 9,074
2012 January	177	388	772	220	17	17	130	173	38	156	367	751
February	164	363 377	693 792	193 247	16	16 18	105 133	162	36 40	152 164	351 370	681 785
March April	171 164	358	792 765	250	18 17	18	121	166 157	37	160	370 354	765 761
May	173	376	806	273	18	20	119	165	38	170	373	803
June	165 157	367 368	772 743	254 252	17 18	20 21	114 84	165 172	37 39	165 158	367 369	772 744
July August	162	375	743 712	219	18	20	81	173	39	168	380	718
September	151	356	644	168	18	20	84	168	37	150	355	643
October November	153 150	363 358	678 683	157 178	18 18	20 19	120 111	168 167	41 41	159 150	368 358	683 684
December	155	372	766	219	19	19	138	174	42	152	369	763
Total	1,942	4,419	8,826	2,629	212	227	1,340	2,010	467	1,902	4,379	8,786
2013 January February	152 139	375 339	794 705	239 195	19 17	22 21	139 132	183 164	41 36	151 139	374 340	793 706
March	161	381	770	197	19	25	149	180	40	162	382	771
April May	161 171	365 386	808 857	236 272	18 18	25 26	165 155	166 175	38 40	163 171	367 386	810 857
June	169	385	821	260	18	27	131	176	40	171	387	823
July	172	402	813	259	19	27	106	190	41	170	401	812
August September	168 164	392 377	737 695	207 161	19 18	28 27	91 111	184 175	40 38	167 168	391 381	735 699
October	179	398	740	165	19	28	131	178	40	182	401	743
November	178	396	759	169	18	25	151	179	39	173	391	754 705
December Total	187 2,000	417 4,614	799 9,298	203 2,561	19 221	26 307	134 1,595	187 2,138	43 476	183 2,000	413 4,613	795 9,298
2014 January	172	395	819	206	19	29	171	183	40	165	388	812
February March	158 175	359 396	702 849	166 231	17 18	27 34	133 169	166 182	35 40	155 166	356 387	699 840
April	173	386	857	239	18	36	178	175	38	170	383	854
May	181	400 400	857	252	19	39 40	148 149	181	38 38	180	399 395	856
June July	179 186	400 415	853 819	246 231	18 18	40 39	149	182 188	38 41	174 180	395 409	848 812
August	179	408	751	188	18	40	97	189	40	179	408	751
September October	173 180	390 403	707 760	151 162	18 18	39 38	109 138	178 184	39 40	171 180	387 404	705 760
November	178	398	809	177	18	34	181	181	40	175	395	806
11-Month Total	1,935	4,350	8,784	2,249	200	396	1,590	1,988	428	1,895	4,310	8,745
2013 11-Month Total 2012 11-Month Total	1,813 1,787	4,197 4,047	8,500 8,060	2,358 2,410	202 193	281 208	1,461 1,202	1,951 1,836	433 424	1,816 1,750	4,200 4,010	8,503 8,023

a Production equals consumption for all renewable energy sources except

b Total biomass inputs to the production of fuel ethanol and biodiesel.

Wood and wood-derived fuels, biomass waste, and total biomass inputs to the production of fuel ethanol and biodiesel.

Hydroelectric power, geothermal, solar thermal/photovoltaic, wind, and

d Hydroelectric power, geometria, some transmission of the biomass.

Conventional hydroelectricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6).

Geothermal electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6), and geothermal heat pump and direct use energy.

Solar thermal and photovoltaic (PV) electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6), and solar thermal direct use energy.

Wind electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6).

Wood and wood-derived fuels.

^j 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

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

K Fuel ethanol (minus denaturant) and biodiesel consumption, plus losses and co-products from the production of fuel ethanol and biodiesel.

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

Notes: • Most data for the residential, commercial, industrial, and transportation sectors are estimates. See notes and sources for Tables 10.2a and 10.2b. • See Note, "Renewable Energy Production and Consumption," 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/#renewable (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

beginning in 1973. Sources: Tables 10.2a–10.4.

Table 10.2a Renewable Energy Consumption: Residential and Commercial Sectors (Trillion Btu)

	(111111011	<u> </u>											
		Reside	ntial Sector					Co	mmercial	Sectora			
			Biomass		Hydro-					Bio	mass		
	Geo- thermal ^b	Solar/ PV ^c	Woodd	Total	electric Power ^e	Geo- thermal ^b	Solar/ PV ^f	Wind ⁹	Woodd	Wasteh	Fuel Ethanol ⁱ	Total	Total
1950 Total 1955 Total 1965 Total 1966 Total 1967 Total 1970 Total 1970 Total 1970 Total 1970 Total 1980 Total 1980 Total 1980 Total 1990 Total 1990 Total 2001 Total 2002 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2007 Total 2008 Total 2007 Total 2008 Total 2007 Total 2007 Total 2008 Total 2009 Total 2009 Total 2009 Total 2010 Total 2011 Total 2011 Total	10 13 14 16 18 22 26 33 37 40	NA NA NA NA NA NA S64 61 57 57 58 63 70 80 81 114 153	1,006 775 627 468 401 425 850 1,010 580 520 420 370 380 400 410 430 380 420 470 500 440 440	1,006 775 627 468 401 425 850 1,010 641 591 489 438 448 470 481 504 462 512 577 622 591 643	NA NA NA NA NA NA 1 1 1 (s) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NA NA NA NA NA NA NA 15 8 9 11 12 14 14 15 17 19 20	NA A A A A A A A A A A A A A A A A A A	NA NA NA NA NA NA - - - - (s) (s)	19 15 12 9 8 8 8 21 24 66 72 71 67 69 71 70 70 73 73 73 72 69	NA NA NA NA NA NA NA 240 47 25 26 29 34 34 34 36 36 43	NA NA NA NA NA NA (s) (s) (s) (s) 1 1 1 2 2 3 3 3	19 15 12 9 8 8 8 21 24 94 113 119 92 95 101 105 105 103 103 112 111	19 15 12 9 8 8 21 24 98 118 128 101 104 113 118 120 118 129 130 136
Pebruary February February March April May June July August September October November December Total	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	16 15 16 15 16 16 15 16 186	36 33 36 34 36 34 36 34 36 34 36 420	55 51 53 55 53 55 55 53 55 53 55 53 55 646	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	555555555555 61	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 5	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	999999999999998***********************	11 10 11 11 11 11 11 11 11 11 11 11 11
Pebruary February March April May June July August September October November December Total	3 3 3 3 3 3 3 3 3 3 3 3 3 4 0	19 17 19 18 19 19 19 18 19 219	49 44 49 48 49 48 49 48 49 48 49 580	71 64 71 69 71 69 71 71 69 71 89 71	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	6566666666666 70	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	10 9 10 10 10 10 10 10 10 10 10 10	12 11 12 12 12 12 12 12 12 12 12 12 12 1
Pebruary February March April May June July August September October November 11-Month Total		21 19 21 21 21 21 21 21 21 21 21 21 21 21 21	49 44 49 48 49 49 49 48 49 48 531	74 67 74 72 74 72 74 74 72 74 72 74	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	(s) (s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) (s) (s) (s) (s) (s) (s) (s)	65666666666666666 65	4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	10 9 10 10 10 10 10 10 10 10 10	12 11 12 12 12 12 12 12 12 12 12 12 12 1
2013 11-Month Total 2012 11-Month Total	36 36	200 170	531 384	767 591	(s) (s)	18 18	3 1	1 (s)	64 56	42 41	2 2	109 99	130 119

a Commercial sector, including commercial combined-heat-and-power (CHP) and commercial electricity-only plants. See Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7.

b Geothermal heat pump and direct use energy.
c Solar thermal direct use energy, and photovoltaic (PV) electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6). Includes distributed solar thermal and PV energy used in the commercial, industrial, and electric power sectors.
d Wood and wood-derived fuels.
c Converted to Btu using the

Wood and wood-derived ruels.
 Conventional hydroelectricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6).
 Photovoltaic (PV) electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6) at commercial plants with capacity of 1 megawatt or greater.
 Wind electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6)

rate—see Table A6).

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

i The fuel ethanol (minus denaturant) portion of motor fuels, such as E10, consumed by the commercial sector.

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

Notes: • Data are estimates, except for commercial sector solar/PV, hydroelectric power, wind, and waste. • 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/#renewable (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Sources: See end of section.

Table 10.2b Renewable Energy Consumption: Industrial and Transportation Sectors (Trillion Btu)

					Industri	al Sector ^a					Trans	portation	Sector
							Biomass					Biomass	
	Hydro- electric Power ^b	Geo- thermal ^c	Solar/ PV ^d	Winde	Wood ^f	Wasteg	Fuel Ethanol ^h	Losses and Co- products ⁱ	Total	Total	Fuel Ethanol ^j	Bio- diesel	Total
1950 Total 1955 Total 1960 Total 1960 Total 1965 Total 1970 Total 1977 Total 1978 Total 1980 Total 1985 Total 1990 Total 2000 Total 2001 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2007 Total 2008 Total 2008 Total 2010 Total 2011 Total 2011 Total	69 38 33 34 32 33 33 31 55 42 33 33 32 29 16 17 18 16	NA A A A A A A A A A A A A A A A A A A	NA NA NA NA NA NA 	NA NA NA NA NA NA 	532 631 680 855 1,019 1,603 1,600 1,642 1,652 1,443 1,363 1,476 1,452 1,413 1,339 1,178 1,273 1,273	NA NA NA NA NA 230 195 129 145 142 132 132 143 143 154 168 165	NA NA NA NA NA 1 1 2 1 3 3 4 6 7 10 12 13 17 17	NA NA NA NA NA 42 49 86 99 108 130 169 203 285 377 532 617 771	532 631 680 855 1,019 1,600 1,918 1,684 1,881 1,681 1,679 1,817 1,837 1,847 1,837 1,942 1,953 2,026 1,963 2,201 2,261	602 669 719 888 1,053 1,053 1,633 1,951 1,771 1,992 1,719 1,725 1,873 1,873 1,930 1,965 2,047 1,985 2,047	NA NA NA NA NA SO 112 135 141 168 228 228 227 442 557 786 894 1,045	NA NA NA NA NA NA NA NA NA NA 1 2 2 3 3 12 33 45 39 41 33 113	NA NA NA NA NA NA 50 112 135 142 170 230 230 230 475 602 230 230 230 230 175 1075 1,158
2012 January February March April May June July August September October November December Total	3 2 2 2 2 2 1 1 2 2 2 2 2 2 2 2 2 2 2 2	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	115 108 109 105 111 109 113 115 112 113 117 1,339	13 13 14 13 13 12 13 13 12 14 15 159	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	67 61 63 61 64 61 58 60 57 57 57	196 184 188 180 188 183 186 189 181 186 185 192 R 2,239	199 186 191 182 191 185 187 191 183 188 188 194 R 2,266	82 82 88 86 92 90 88 95 83 91 83 86	6 8 11 12 12 12 10 11 9 8 9 6	87 89 99 98 104 102 98 106 92 100 92 92 92 1,159
2013 January February March April May June July August September October November December Total	3 3 3 2 3 3 3 2 2 2 2 2 2 3 3 3	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	111 99 108 100 104 106 116 110 103 105 107 111 1,281	15 13 14 14 14 15 15 14 15 171	1 1 1 1 1 1 1 2 2 2 2 2 2 1 2 1 1 8 2 2 8 2 8	57 52 59 59 63 62 62 61 59 65 64 68 729	184 165 182 174 R 183 183 194 186 178 186 187 196 R 2,198	R 188 169 186 177 186 187 189 189 189 189 199	83 77 89 89 93 93 92 91 90 94 89 92 R 1,072	9 12 13 13 15 15 13 18 22 17 22 179	92 86 101 102 R 106 108 107 105 108 116 107 114 R 1,251
2014 January February March April May June July August September October November 11-Month Total	3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	(s) (s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	105 96 104 107 106 110 112 104 108 107 1,163	15 13 14 14 14 14 15 14 14 14 14	1 1 1 1 R2 R2 R2 R2 R2 R2	65 58 65 64 67 66 68 66 64 66 66 715	186 168 R 185 184 189 188 194 193 183 190 188 2,048	190 171 187 186 192 190 196 R 196 R 196 185 192 190 2,075	87 82 87 91 94 92 95 94 89 96 91	11 13 13 13 17 15 16 17 17 16 17	98 95 100 104 111 106 111 111 R 105 113 107 1,162
2013 11-Month Total 2012 11-Month Total	29 21	4 4	(s) (s)	(s) (s)	1,169 1,222	156 144	16 15	661 665	2,003 2,047	2,036 2,071	979 959	158 108	1,137 1,067

beginning in 1973.
Sources: See end of section.

a Industrial sector, including industrial combined-heat-and-power (CHP) and industrial electricity-only plants. See Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7.

b Conventional hydroelectricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6).

Geothermal heat pump and direct use energy.

d Photovoltaic (PV) electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6) at industrial plants with capacity of 1 menawatt for greater.

fossil-fuels heat rate—see Table Ab) at muustial plants min capacity.

@ Wind electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6).

@ Wood and wood-derived fuels.

@ 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 transported fuels).

tire-derived fuels).

h The fuel ethanol (minus denaturant) portion of motor fuels, such as E10,

consumed by the industrial sector.

Losses and co-products from the production of fuel ethanol and biodiesel. Does not include natural gas, electricity, and other non-biomass energy used in the production of fuel ethanol and biodiesel—these are included in the industrial sector consumption statistics for the appropriate energy source.

The fuel ethanol (minus denaturant) portion of motor fuels, such as E10 and E85, consumed by the transportation sector.

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

Notes: • Data are estimates, except for industrial sector hydroelectric power in 1949–1978 and 1989 forward, solar/PV, and wind. • 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/#renewable (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Table 10.2c Renewable Energy Consumption: Electric Power Sector

(Trillion Btu)

	Hydro- electric	Geo-				Biomass		
	Powera	thermal ^b	Solar/PV ^c	Wind ^d	Woode	Waste ^f	Total	Total
950 Total	1,346	NA	NA	NA	5	NA	5	1.351
955 Total	1,322	NA NA	NA NA	NA NA	3	NA NA	3	1,325
960 Total	1,569	(s)	NA NA	NA	2	NA NA	2	1,571
965 Total	2.026	2	NA NA	NA NA	3	NA NA	3	2.031
970 Total	2.600	6	NA NA	NA NA	ĭ	2	4	2,609
975 Total	3,122	34	NA NA	NA NA	(s)	2	2	3,158
980 Total	2.867	53	NA NA	NA NA	3	2	4	2,925
985 Total	2,937	97	(s)	(s)	8	7	14	3,049
990 Total ^g	3,014	161	4	29	129	188	317	3,524
995 Total	3,149	138	5	33	125	296	422	3,747
000 Total	2,768	144	5	57	134	318	453	3,427
001 Total	2,209	142	6	70	126	211	337	2.763
002 Total	2,650	147	6	105	150	230	380	3,288
003 Total	2,749	146	5	113	167	230	397	3,411
004 Total	2,655	148	6	142	165	223	388	3,339
004 Total	2,670	147	6	178	185	221	406	3,406
005 Total	2,870	147	5	264	182	231	406 412	3,406
006 Total	2,839 2,430	145	5 6	264 341	182 186	237	412 423	
007 Total	2,430 2,494	146	9	546	177	257 258	423 435	3,345 3,630
008 Total		146	9	721	180			
009 Total	2,650	146 148	9 12	721 923	180 196	261 264	441 459	3,967 4,064
010 Total	2,521 3.085	148	12	923 1,167	196	264 255	459 437	4,064 4,855
011 Total	.,			,				,
012 January	217	12	1	130	17	22	39	398
February	191	11	1	105	16	20	36	344
March	244	12	2	133	16	22	37	429
April	248	12	3	121	13	21	33	417
May	271	12	4	119	14	22	36	442
June	252	12	5	114	16	22	38	421
July	251	13	5	84	18	23	40	392
August	218	12	4	81	18	23	40	355
September	166	12	4	84	16	21	38	304
October	155	13	4	120	15	22	38	330
November	176	13	3	111	15	23	38	341
December	217	13	3	138	16	24	40	412
Total	2,606	148	40	1,339	190	262	453	4,586
013 January	236	14	3	139	17	22	38	430
February	192	12	4	132	15	19	34	375
March	194	14	6	149	17	22	39	401
April	233	13	7	164	12	21	33	450
May	269	13	8	155	16	22	38	481
June	257	13	9	131	17	22	39	449
July	256	13	8	106	19	22	41	425
August	204	13	9	91	20	21	41	359
September	159	13	9	111	18	21	39	331
October	163	14	9	130	18	22	39	355
November	167	12	7	151	19	21	40	377
December	200	14	7	134	20	24	44	398
Total	2,529	157	85	1,595	207	258	465	4,831
014 January	202	13	7	171	22	21	43	437
February	163	12	8	133	20	18	39	355
March	229	13	13	169	22	21	44	467
April	237	13	15	178	18	21	38	481
May	250	13	17	148	19	21	40	468
June	244	13	19	149	23	21	43	468
July	229	13	17	115	22	23	45	419
August	186	13	18	97	22	22	44	358
September	149	13	18	109	20	21	41	330
October	160	13	16	138	20	22	42	369
November	175	13	13	181	21	22	42	424
11-Month Total	2,226	142	161	1,588	229	232	461	4,578

a Conventional hydroelectricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6).

b Geothermal electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6).

c Solar thermal and photovoltaic (PV) electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6).

d Wind electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6).

e Wood and wood-derived 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). tire-derived fuels).

⁹ 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: • 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.eig.arg/v/tgta/geogra/data/monthly/tfrenewable/fcxcl

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#renewable (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973. Sources: Tables 7.2b, 7.4b, and A6.

Table 10.3 Fuel Ethanol Overview

Stock Production Producti			Losses					Traded	-					Consump- tion
1981 Total		Feed- stock ^a	and Co- products ^b	Dena- turant ^c	Pı	roductiond		Net Imports ^e	Stocks ^{d,f}	Stock Change ^{d,g}	Соі	nsumption	d	Minus Denaturant ^h
1985 Total 93 42 294 14,693 617 52 NA NA NA 14,693 617 52 1990 Total 111 49 356 17,802 748 63 NA NA NA NA 14,693 617 52 1995 Total 198 86 647 32,325 1,358 115 387 2,186 -207 32,919 1,383 117 1990 Total 198 86 647 32,325 1,528 138 116 387 2,186 -207 32,919 1,383 117 17 180 1,019 190 Total 233 99 773 38,627 1,622 130 116 3,400 642 39,366 15,551 140 120 120 120 120 120 120 120 120 120 12		TBtu	TBtu	Mbbl	Mbbl	MMgal	TBtu	Mbbl	Mbbl	Mbbl	Mbbl	MMgal	TBtu	TBtu
1990 Total 111 49 366 17,802 748 63 1995 Total 1996 Total 1995 Total 1996 Total 1995 Total 1996 Tot	1981 Total													7
1995 Total 1998 86 647 32,325 1,358 115 387 2,166 -207 32,919 1,383 117 17 2000 Total 233 99 773 38,627 1,622 138 116 3,400 -624 33,367 1,653 140 12010 Total 253 198 841 42,028 1,765 150 315 4,298 898 41,445 1,741 148 12020 Total 307 130 1,161 1,615 696 505 2,140 140 140 140 140 140 140 140 140 140	1985 Total													51
2000 Total 233 99 97 773 38,627 1,622 1338 116 3,400 -624 39,367 1,653 140 2020 Total 253 108 841 440,282 1,765 150 315 4,298 88 41,445 1,741 148 2002 Total 307 130 1,019 50,956 2,140 182 306 6,200 1,902 49,360 2,073 176 2003 Total 400 169 1,331 66,772 2,804 238 228 5,878 -222 67,286 2,826 2,826 240 2 2 2 2 2 2 2 2 67,286 2,826 2,827 240 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2														62
2001 Total	1995 Otal													114 137
2002 Total 307 130 1,019 50,956 (2,140 182 306 5,276 1,902 4,360 2,073 176 12003 Total 400 169 1,335 66,772 2,804 238 292 5,878 -222 67,286 2,826 240 2 2004 Total 484 203 1,621 81,058 3,404 289 3,542 5,602 24 84,576 3,552 301 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2000 Total													137
2003 Total	2001 Total													171
2004 Total	2002 Total													233
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2006 Total 688 285 2,326 116,294 4,884 4,14 17,408 8,760 3,197 130,505 5,481 465 4 2008 Total 914 376 5,682 291,537 9,309 790 12,610 14,226 3,585 1,775 163,945 6,886 584 2008 Total 1,300 531 4,433 221,637 9,309 790 12,610 14,226 3,585 230,556 9,883 821 6 2009 Total 1,517 616 5,688 260,427 10,388 928 4,127 10,544 2,585 230,556 9,883 821 6 2009 Total 1,839 742 6,506 316,612 10,388 928 1,127 -9,115 17,941 306,157 11,337 935 6 2010 Total 1,839 742 6,506 316,612 10,388 921 1,187 24,385 18,288 297 306,984 12,893 1,093 1,187 21 1,171 2	2005 Total													335
2007 Total	2006 Total													453
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2012 January	2010 Total	1,839	742	6,506	316,617	13,298	1,127	-9,115	17,941	1,347	306,155	12,858	1,090	1,061
February	2011 Total	1,919	769	6,649	331,646	13,929	1,181	-24,365	18,238	297	306,984	12,893	1,093	1,065
March														83
April 152 61 495 26,346 1,107 94 -1,549 22,050 -533 25,330 1,064 90 May 159 63 520 27,616 1,160 98 -1,134 22,050 -533 25,330 1,064 90 July 155 62 58 503 25,236 1,060 98 -1,114 94 597 21,239 -396 26,312 1,105 94 1,019														83
May 159 63 520 27.616 1,160 98 -1,013 21,635 -415 27.018 1,135 96 June 153 61 502 26,513 1,114 94 -597 21,239 -396 26,312 1,105 94 July 145 58 503 25,236 1,060 90 -489 20,224 -1,015 25,762 1,082 92 September 140 56 496 24,376 1,024 87 699 19,921 741 24,334 1,022 87 October 144 57 527 24,744 1,039 88 1,011 19,921 741 24,334 1,022 87 November 142 57 527 24,744 1,039 88 1,011 19,921 1,366 24,389 1,024 87 Total 1,814 722 6,264 314,714 13,218 1,120 -5,891														89
Jurie 153 61 502 26,513 1,114 94 -597 21,239 -396 26,312 1,105 94 1,014 145 58 503 25,236 1,060 90 -489 20,224 -1,015 25,762 1,082 92 Adgust 150 60 526 26,092 1,096 93 654 1,9180 -1,0144 27,790 1,167 99 2,0160 1,016	April													88
July 145 58 503 25.236 1,060 90 -489 20,224 -1,015 25.762 1,082 92 August 150 60 526 26,092 1,096 93 654 19,180 -1,044 27,790 1,167 99 September 140 56 496 24,376 1,024 87 699 19,921 741 24,334 1,022 87 Cotober 144 57 528 24,976 1,049 89 614 18,626 -1,295 26,885 1,129 96 November 142 57 527 24,744 1,039 88 1,011 19,992 1,366 24,389 1,024 87 December 147 59 534 25,582 1,074 91 -79 20,350 338 25,145 1,056 90 Total 1,814 722 6,646 314,714 13,218 1,120 -5,891 20,350 2,112 306,711 12,882 1,092 1,064 314,714 13,218 1,120 -5,891 20,350 2,112 306,711 12,882 1,092 1,064 314,714 13,218 91 -79 20,350 358 25,145 1,056 90 1,094 31														94 91
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September														96
October 144 57 528 24,976 1,049 89 614 18,626 -1,295 26,885 1,129 96 November 147 59 534 25,582 1,074 91 -79 20,350 358 25,145 1,056 90 Total 1,814 722 6,264 314,714 13,218 1,120 -5,891 20,350 2,112 306,711 12,882 1,092 1,6 2013 January 143 57 503 24,778 1,041 88 -767 19,894 -46 24,467 1,028 87 February 130 52 461 22,494 945 80 -727 19,009 -885 22,652 951 81 March 148 59 515 25,620 1,076 91 -169 18,410 -599 26,050 1,094 93 May 157 62 537 27,197 1,142 97														84
November														93
December														84
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February 130 52 461 22,494 945 80 7-727 19,009 -885 22,652 951 81 March 148 59 511 25,620 1,076 91 -169 18,410 -599 26,050 1,094 93 April 148 59 515 25,601 1,075 91 -551 17,370 -1,040 26,090 1,096 93 May 157 62 537 27,197 1,142 97 -400 16,804 -566 27,363 1,149 97 July 154 61 509 26,722 1,122 95 130 16,428 -376 27,228 1,144 97 July 155 62 519 26,923 1,131 96 624 17,072 644 26,903 1,130 96 August 155 62 519 26,923 1,131 96 624 17,072 644 26,903 1,130 96 August 152 60 494 26,279 1,104 94 413 16,945 -127 26,819 1,126 95 September 147 59 499 25,564 1,074 91 -187 15,986 -959 26,336 1,106 94 October 161 64 538 27,995 1,176 100 -767 15,750 -236 27,464 1,153 98 November 161 64 64 532 27,915 1,172 99 -1,902 15,569 -181 26,194 1,100 93 December 170 68 563 29,405 1,235 105 -1,459 16,424 855 27,091 1,138 96 Total 1,825 726 6,181 316,493 13,293 1,126 -5,761 16,424 -3,926 314,658 13,216 1,120 1,404 1,4														1,064
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April 148 59 515 25,601 1,075 91 -551 17,370 -1,040 26,090 1,096 93 May 157 62 537 27,197 1,142 97 -400 16,804 -566 27,363 1,149 97 July 154 61 509 26,722 1,122 95 130 16,428 -376 27,228 1,144 97 July 155 62 519 26,923 1,131 96 624 17,072 644 26,903 1,130 96 August 152 60 494 26,279 1,104 94 413 16,945 -127 26,819 1,126 95 September 147 59 499 25,564 1,074 91 -187 15,986 -959 26,336 1,106 94 October 161 64 538 27,995 1,176 100 -767 15,750 -236 27,464 1,153 98 November 161 64 532 27,915 1,172 99 -1,902 15,569 -181 26,194 1,100 93 December 170 68 563 29,405 1,235 105 -1,459 16,424 855 27,091 1,138 96 Total 1,825 726 6,181 316,493 13,293 1,126 -5,761 16,424 -3,926 314,658 13,216 1,120 1,60 2014 January 163 65 551 28,344 1,190 101 -2,044 17,086 667 25,633 1,077 91 February 146 58 491 25,401 1,067 90 -1,561 16,834 -252 24,092 1,012 86 March 162 65 538 28,116 1,181 100 -2,065 17,349 515 25,536 1,073 91 April 160 64 543 27,837 1,169 99 -1,128 17,356 7 26,702 1,121 95 May 167 67 559 29,039 1,220 103 -702 18,117 761 27,576 1,158 98 June 166 66 545 28,759 1,208 102 -1,283 18,647 -1,496 18,665 1 27,916 1,172 99 August 165 66 540 28,573 1,204 102 -1,283 18,471 -194 27,576 1,158 98 September 159 63 504 28,6573 1,200 102 -2,133 17,029 -236 26,676 1,120 95 11-Month Total 1,790 713 5,916 310,365 13,035 1,105 -16,948 17,029 610 292,807 12,298 1,042 1,001														79
May 157 62 537 27,197 1,142 97 -400 16,804 -566 27,363 1,149 97 June 154 61 509 26,722 1,122 95 130 16,428 -376 27,228 1,144 97 June 155 62 519 26,923 1,131 96 624 17,072 644 26,903 1,130 96 August 152 60 494 26,279 1,104 94 413 16,945 -127 26,819 1,126 95 September 147 59 499 25,564 1,074 91 -187 15,986 -959 26,336 1,106 94 October 161 64 538 27,995 1,176 100 -767 15,750 -236 27,464 1,153 98 November 161 64 538 27,995 1,176 100 -767 15,750 -236 27,464 1,153 98 November 170 68 563 29,405 1,235 105 -1,459 16,424 855 27,091 1,138 96 Total 1,825 726 6,181 316,493 13,293 1,126 -5,761 16,424 -3,926 314,658 13,216 1,120 1,00 1,00 1,00 1,00 1,00 1,00 1,0														90
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July 169 67 609 29,413 1,235 105 -1,496 18,665 1 27,916 1,172 99 August 165 66 534 28,665 1,204 102 -1,283 18,471 -194 27,576 1,158 98 September 159 63 504 27,577 1,158 98 1,347 18,665 189 26,041 1,094 93 October 165 66 502 28,641 1,203 102 -1,858 17,265 -1,395 28,178 1,183 100 November 165 66 540 28,573 1,200 102 -2,133 17,029 -236 26,676 1,120 95 11-Month Total 1,790 713 5,916 310,365 13,035 1,105 -16,948 17,029 610 292,807 12,298 1,042 1,6														96
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October 165 66 502 28,641 1,203 102 -1,858 17,265 -1,395 28,178 1,183 100 November 165 66 540 28,573 1,200 102 -2,133 17,029 -236 26,676 1,120 95 11-Month Total 1,790 713 5,916 310,365 13,035 1,105 -16,948 17,029 610 292,807 12,298 1,042 1,042														90
November														98
11-Month Total 1,790 713 5,916 310,365 13,035 1,105 -16,948 17,029 610 292,807 12,298 1,042 1,0														93
2042 44 Month Total 4 CEE CEO E 649 207 000 42 0E0 4 022 4 202 4E 660 4 704 207 666 42 079 4 022														1,016
	2013 11-Month Total	1,655	659	5,618	287,088	12,058	1,022	-4,303	15,569	-4,781	287,566	12,078	1,023	998 977

a Total corn and other biomass inputs to the production of undenatured ethanol

the final 2013 value (16,424 thousand barrels) that is shown under "Stocks." NA=Not available.

Notes: • Mbbl = thousand barrels. MMgal = million U.S. gallons. TBtu = trillion Btu. • Fuel ethanol data in thousand barrels are converted to million gallons by multiplying by 0.042, and are converted to Btu by multiplying by the approximate heat content of fuel ethanol—see Table A3. • Through 1980, data are not available. For 1981–1992, data are estimates. For 1993–2008, only data for feedstock, losses and co-products, and denaturant are estimates. • See "Denaturant," "Ethanol," "Fuel Ethanol," and "Fuel Ethanol Minus Denaturant" in Glossary. • Totals may not equal sum of components due to columbia.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#renewable (Excel and CSV files) for all available annual and monthly data beginning in 1981. Sources: See end of section.

b Losses and co-products from the production of fuel ethanol. Does not include natural gas, electricity, and other non-biomass energy used in the production of fuel ethanol—these are included in the industrial sector consumption statistics for the cananor—urese are included in the industrial sector cor appropriate energy source.

^C The amount of denaturant in fuel ethanol produced.

^d Includes denaturant

Includes denaturant.

e Through 2009, data are for fuel ethanol imports only; data for fuel ethanol exports are not available. Beginning in 2010, data are for fuel ethanol imports minus fuel ethanol (including industrial alcohol) exports.

Stocks are at end of period.

g A negative value indicates a decrease in stocks and a positive value indicates

an increase. $^{\rm h}$ Consumption of fuel ethanol minus denaturant. Data for fuel ethanol minus denaturant are used to develop data for "Renewable Energy/Biomass" in Tables 10.1-10.2b, as well as in Sections 1 and 2.

 $^{^{\}rm i}$ Derived from the preliminary 2013 stocks value (16,419 thousand barrels), not the final 2013 value (16,424 thousand barrels) that is shown under "Stocks."

Table 10.4 Biodiesel Overview

							Trade							
	Feed- stock ^a	Losses and Co- products ^b	Pi	oduction		Imports	Exports	Net Imports ^c	Stocksd	Stock Change ^e	Bal- ancing Item ^f	Co	nsumptio	n
	TBtu	TBtu	Mbbl	MMgal	TBtu	Mbbl	Mbbl	Mbbl	Mbbl	Mbbl	Mbbl	Mbbl	MMgal	TBtu
2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2008 Total 2009 Total 2009 Total 2010 Total 2011 Total	1 1 2 4 12 32 63 88 67 44 125	(s) (s) (s) (s) (s) 1 1 1 2	204 250 338 666 2,162 5,963 11,662 16,145 12,281 8,177 23,035	9 10 14 28 91 250 490 678 516 343 967	1 1 2 4 12 32 62 87 66 44 123	81 197 97 101 214 1,105 3,455 7,755 1,906 564 890	41 57 113 128 213 856 6,696 16,673 6,546 2,588 1,799	40 140 -17 -27 1 250 -3,241 -8,918 -4,640 -2,024 -908	NA NA NA NA NA NA NA 711 672 2,012	NA NA NA NA NA NA 711 -39 91,035	NA NA NA NA NA NA NA O 0	244 390 322 639 2,163 6,213 8,422 7,228 7,663 6,192 21,092	10 16 14 27 91 261 354 304 322 260 886	1 2 2 3 12 33 45 39 41 33 113
Policy January February February March April May June July August September October November December Total	10 10 12 12 13 13 12 12 12 11 10 7 8 128	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	1,751 1,887 2,251 2,237 2,428 2,223 2,127 2,176 1,949 1,792 1,363 1,406 23,588	74 79 95 94 102 93 89 91 82 75 57 59	9 10 12 12 13 12 11 12 10 10 7 8 126	48 72 25 32 75 132 166 55 108 60 9 71 853	258 125 189 230 320 392 426 403 295 209 65 143 3,056	-210 -53 -164 -198 -245 -260 -260 -348 -187 -149 -56 -72 -2,203	2,510 2,895 2,893 2,783 2,710 2,348 2,262 2,011 2,059 2,183 1,865 2,083 2,083	499 384 -1 -111 -73 -362 -86 -250 47 124 -318 219 72	0 0 0 0 0 0 0 0	1,042 1,450 2,088 2,149 2,256 2,325 1,953 2,079 1,715 1,519 1,624 1,114 21,314	44 61 88 90 95 98 82 87 72 64 68 47 895	6 8 11 12 12 12 10 11 9 8 9 6
Petron January	9 13 14 14 15 17 17 16 18 17 17	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	1,640 1,672 2,412 2,548 2,645 2,699 3,072 3,086 3,025 3,272 3,080 3,217 32,368	69 70 101 107 111 113 129 130 127 137 129 135 1,359	9 9 13 14 14 16 17 16 18 17 17	38 88 439 372 410 698 358 385 781 1,177 1,641 1,765 8,152	16 37 176 371 563 587 429 687 511 415 408 476 4,675	22 51 263 1 -153 111 -71 -302 270 762 1,233 1,289 3,477	2,090 2,093 2,491 2,588 2,598 2,565 2,793 3,099 3,051 2,970 4,029 4,506 4,506	7 3 398 97 10 -33 228 306 -48 -81 1,059 477 2,422	0 0 0 0 0 0 0 0	1,655 1,720 2,276 2,452 2,482 2,843 2,773 2,478 3,344 4,116 3,254 4,029 33,423	70 72 96 103 104 119 116 104 140 173 137 169 1,404	9 9 12 13 13 15 15 13 18 22 17 22 179
Pebruary	9 12 13 12 13 13 17 14 14 15 13	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	1,612 2,183 2,325 2,219 2,409 2,454 3,119 2,510 2,631 2,715 2,416 26,593	68 92 98 93 101 103 131 105 111 114 101 1,117	9 12 12 13 13 17 13 14 15 13	233 175 257 146 563 233 493 571 352 507 989 4,519	135 141 91 261 208 263 320 264 136 40 65 1,924	98 34 166 -115 355 -30 173 307 216 467 924 2,595	4,171 3,928 4,074 3,764 3,334 2,995 3,358 2,998 2,743 2,867 3,114 3,114	h -338 -243 146 -310 -431 -339 363 -360 -255 124 247 -1,396	0 0 0 0 0 0 0	2,048 2,461 2,345 2,414 3,195 2,763 2,929 3,177 3,102 3,058 3,093 30,584	86 103 98 101 134 116 123 133 130 128 130 1,285	11 13 13 17 15 16 17 16 17
2013 11-Month Total 2012 11-Month Total	158 121	2 2	29,151 22,183	1,224 932	156 119	6,387 782	4,199 2,912	2,188 -2,130	4,029 1,865	1,945 -147	0	29,394 20,199	1,235 848	158 108

a Total vegetable oil and other biomass inputs to the production of

production plants (977 thousand barrels), not the final 2010 value for bulk terminals only (672 thousand barrels) that is shown under "Stocks."

Derived from the preliminary 2013 stocks value (4,509 thousand barrels), not the final 2013 value (4,506 thousand barrels) that is shown under "Stocks."

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

Notes: Mbbl = thousand barrels. MMgal = million U.S. gallons. TBtu = trillion Btu.

Biodiesel data in thousand barrels are converted to million gallons by multiplying by 0.42, and are converted to Btu by multiplying by 5.359 million Btu per barrel (the approximate heat content of biodiesel—see Table A1). Through 2000, data are not available. Beginning in 2001, data not from U.S. Energy Information Administration (EIA) surveys are estimates. Beginning in 2014, biodiesel production data are estimated by EIA, and are only partially based on survey data. 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/#renewable (Excel and CSV files) for all available annual and monthly data beginning in 2001.

Sources: See end of section

^a Total vegetable oil and other biomass inputs to the production of biodiesel—calculated by multiplying biodiesel production by 5.433 million Btu per barrel. See "Biodiesel Feedstock" entry in the "Thermal Conversion Factor Source Documentation" at the end of Appendix A.

^b Losses and co-products from the production of biodiesel. Does not include natural gas, electricity, and other non-biomass energy used in the production of biodiesel—these are included in the industrial sector consumption statistics for the appropriate energy source.

^c Net imports equal imports minus exports.

appropriate energy source.

^c Net imports equal imports minus exports.

^d Stocks are at end of period. Through 2010, includes stocks at bulk terminals only. Beginning in 2011, includes stocks at bulk terminals and biodiesel production plants.

^e A negative value indicates a decrease in stocks and a positive value indicates an increase.

^I Beginning in 2009, because of incomplete data coverage and different data sources, "Balancing Item" is used to balance biodiesel supply and disposition.

^g Derived from the final 2010 stocks value for bulk terminals and biodiesel

Renewable Energy

Note. Renewable Energy Production and Consump-

tion. In Tables 1.1, 1.3, and 10.1, renewable energy consumption consists of: conventional hydroelectricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6); geothermal electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6), and geothermal heat pump and geothermal direct use energy; solar thermal and photovoltaic electricity net generation (converted to Btu using the fossil-fuels heat rate —see Table A6), and solar thermal direct use energy; wind electricity net generation (converted to Btu using the fossilfuels heat rate—see Table A6); wood and wood-derived fuels consumption; biomass waste (municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass) consumption; fuel ethanol (minus denaturant) and biodiesel consumption; and losses and co-products from the production of fuel ethanol and biodiesel. In Tables 1.1, 1.2, and 10.1, renewable energy production is assumed to equal consumption for all renewable energy sources except biofuels (biofuels production comprises biomass inputs to the production of fuel ethanol and biodiesel).

Table 10.2a Sources

Residential Sector, Geothermal

1989 forward: Oregon Institute of Technology, Geo-Heat Center. Monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month. (The annual estimates for 2012–2014 are set equal to that of 2011.)

Residential Sector, Solar/PV

1989–2009: U.S. Energy Information Administration (EIA) estimates based on Form EIA-63A, "Annual Solar Thermal Collector Manufacturers Survey," and Form EIA-63B, "Annual Photovoltaic Module/Cell Manufacturers Survey." Monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month.

2010 forward: EIA estimates based on Form EIA-63B, "Annual Photovoltaic Cell/Module Shipments Report"; Form EIA-63A, "Annual Solar Thermal Collector Manufacturers Survey" (pre-2010 data); and SEIA/GTM Research, U.S. Solar Market Insight: 2010 Year in Review. Monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month. (The annual estimate for 2014 is 15.0% higher than that of 2013, based on the growth rate for residential/commercial solar/PV in EIA's Annual Energy Outlook, Table 17.)

Residential Sector, Wood

1949–1979: EIA, Estimates of U.S. Wood Energy Consumption from 1949 to 1981, Table A2.

1980 forward: EIA, Form EIA-457, "Residential Energy Consumption Survey"; and EIA estimates based on Form EIA-457 and regional heating degree-day data. Monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month. (The annual estimate for 2014 is set equal to that of 2013.)

Commercial Sector, Hydroelectric Power

1989 forward: Commercial sector conventional hydroelectricity net generation data from EIA, Form EIA-923, "Power Plant Operations Report," and predecessor forms, are converted to Btu by multiplying by the fossil-fuels heat rate—see Table A6.

Commercial Sector, Geothermal

1989 forward: Oregon Institute of Technology, Geo-Heat Center. Monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month. (The annual estimates for 2012–2014 are set equal to that of 2011.)

Commercial Sector, Solar/PV

2008 forward: Commercial sector solar thermal and photovoltaic (PV) electricity net generation data from EIA, Form EIA-923, "Power Plant Operations Report," are converted to Btu by multiplying by the fossil-fuels heat rate—see Table A6.

Commercial Sector, Wind

2009 forward: Commercial sector wind electricity net generation data from EIA, Form EIA-923, "Power Plant Operations Report," are converted to Btu by multiplying by the fossil-fuels heat rate—see Table A6.

Commercial Sector, Wood

1949–1979: EIA, Estimates of U.S. Wood Energy Consumption from 1949 to 1981, Table A2.

1980–1983: EIA, Estimates of U.S. Wood Energy Consumption 1980-1983, Table ES1.

1984: EIA estimate based on the 1983 value.

1985-1988: Values interpolated.

1989 forward: EIA, *Monthly Energy Review (MER)*, Tables 7.4a–7.4c; and EIA estimates based on Form EIA-871, "Commercial Buildings Energy Consumption Survey." Data for wood consumption at commercial combined-heat-and-power (CHP) plants are calculated as total wood consumption at electricity-only and CHP plants (MER, Table 7.4a) minus wood consumption in the electric power sector (MER, Table 7.4b) and at industrial CHP plants (MER, Table 7.4c). Annual estimates for wood consumption at other commercial plants are based on Form EIA-871 (the annual estimate for 2014 is set equal to that of 2013); monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month.

Commercial Sector, Biomass Waste

1989 forward: EIA, MER, Table 7.4c.

Commercial Sector, Fuel Ethanol (Minus Denaturant)

1981 forward: EIA, MER, Tables 3.5, 3.7a, and 10.3. Calculated as commercial sector motor gasoline consumption (Table 3.7a) divided by total motor gasoline product supplied (Table 3.5), and then multiplied by fuel ethanol (minus denaturant) consumption (Table 10.3).

Table 10.2b Sources

Industrial Sector, Hydroelectric Power

1949 forward: Industrial sector conventional hydroelectricity net generation data from Table 7.2c are converted to Btu by multiplying by the fossil-fuels heat rate—see Table A6.

Industrial Sector, Geothermal

1989 forward: Oregon Institute of Technology, Geo-Heat Center. Monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month. (The annual estimates for 2012–2014 are set equal to that of 2011.)

Industrial Sector, Solar/PV

2010 forward: Industrial sector solar thermal and photovoltaic (PV) electricity net generation data from the U.S. Energy Information Administration (EIA), Form EIA-923, "Power Plant Operations Report," are converted to Btu by multiplying by the fossil-fuels heat rate—see Table A6.

Industrial Sector, Wind

2011 forward: Industrial sector wind electricity net generation data from EIA, Form EIA-923, "Power Plant Operations Report," are converted to Btu by multiplying by the fossil-fuels heat rate—see Table A6.

Industrial Sector, Wood

1949–1979: EIA, Estimates of U.S. Wood Energy Consumption from 1949 to 1981, Table A2.

1980–1983: EIA, Estimates of U.S. Wood Energy Consumption 1980-1983, Table ES1.

1984: EIA, Estimates of U.S. Biofuels Consumption 1990, Table 1.

1985 and 1986: Values interpolated.

1987: EIA, Estimates of Biofuels Consumption in the United States During 1987, Table 2.

1988: Value interpolated.

1989 forward: EIA, *Monthly Energy Review (MER)*, Table 7.4c; and EIA estimates based on Form EIA-846, "Manufacturing Energy Consumption Survey." Data for wood consumption at industrial combined-heat-and-power (CHP) plants are from MER, Table 7.4c. Annual estimates for wood consumption at other industrial plants are based on Form EIA-846 (the annual estimate for 2014 is set equal to

that of 2013); monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month.

Industrial Sector, Biomass Waste

1981: EIA, *Estimates of U.S. Biofuels Consumption 1990*, Table 8; and EIA, MER, Table 10.2c. Estimates are calculated as total waste consumption minus electric power sector waste consumption.

1982 and 1983: EIA estimates for total waste consumption based on *Estimates of U.S. Biofuels Consumption 1990*, Table 8; and EIA, MER, Table 10.2c. Estimates are calculated as total waste consumption minus electric power sector waste consumption.

1984: EIA, *Estimates of U.S. Biofuels Consumption 1990*, Table 8; and EIA, MER, Table 10.2c. Estimates are calculated as total waste consumption minus electric power sector waste consumption.

1985 and 1986: Values interpolated.

1987: EIA, *Estimates of U.S. Biofuels Consumption 1990*, Table 8; and EIA, MER, Table 10.2c. Estimates are calculated as total waste consumption minus electric power sector waste consumption.

1988: Value interpolated.

1989 forward: EIA, MER, Table 7.4c; and EIA estimates based on information presented in Government Advisory Associates, *Resource Recovery Yearbook* and *Methane Recovery Yearbook*, and information provided by the U.S. Environmental Protection Agency, Landfill Methane Outreach Program. Data for waste consumption at industrial CHP plants are from MER, Table 7.4c. Annual estimates for waste consumption at other industrial plants are based on the non-EIA sources listed above (the annual estimate for 2014 is set equal to that of 2013); monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month.

Industrial Sector, Fuel Ethanol (Minus Denaturant)

1981 forward: EIA, MER, Tables 3.5, 3.7b, and 10.3. Calculated as industrial sector motor gasoline consumption (Table 3.7b) divided by total motor gasoline product supplied (Table 3.5), and then multiplied by fuel ethanol (minus denaturant) consumption (Table 10.3).

Industrial Sector, Losses and Co-products

1981 forward: Calculated as fuel ethanol losses and co-products (Table 10.3) plus biodiesel losses and co-products (Table 10.4).

Transportation Sector, Fuel Ethanol (Minus Denaturant)

1981 forward: EIA, MER, Tables 3.5, 3.7c, and 10.3. Calculated as transportation sector motor gasoline consumption (Table 3.7c) divided by total motor gasoline product supplied (Table 3.5), and then multiplied by fuel ethanol (minus denaturant) consumption (Table 10.3).

Transportation Sector, Biodiesel

2001 forward: EIA, MER, Table 10.4. Transportation sector biodiesel consumption is assumed to equal total biodiesel consumption.

Table 10.3 Sources

Feedstock

1981 forward: Calculated as fuel ethanol production (in thousand barrels) minus denaturant, and then multiplied by the fuel ethanol feedstock factor—see Table A3.

Losses and Co-products

1981 forward: Calculated as fuel ethanol feedstock plus denaturant minus fuel ethanol production.

Denaturant

1981–2008: Data in thousand barrels for petroleum denaturant in fuel ethanol produced are estimated as 2 percent of fuel ethanol production; these data are converted to Btu by multiplying by 4.645 million Btu per barrel (the estimated quantity-weighted factor of pentanes plus and conventional motor gasoline used as denaturant).

2009–2013: U.S. Energy Information Administration (EIA), *Petroleum Supply Annual (PSA)*, annual reports, Table 1. Data in thousand barrels for net production of pentanes plus at renewable fuels and oxygenate plants are multiplied by -1; these data are converted to Btu by multiplying by 4.620 million Btu per barrel (the approximate heat content of pentanes plus). Data in thousand barrels for net production of conventional motor gasoline and motor gasoline blending components at renewable fuels and oxygenate plants are multiplied by -1; these data are converted to Btu by multiplying by 5.253 million Btu per barrel (the approximate heat content of conventional motor gasoline). Total denaturant is the sum of the values for pentanes plus, conventional motor gasoline, and motor gasoline blending components.

2014: EIA, *Petroleum Supply Monthly (PSM)*, monthly reports, Table 1. Data in thousand barrels for net production of pentanes plus at renewable fuels and oxygenate plants are multiplied by -1; these data are converted to Btu by multiplying by 4.620 million Btu per barrel (the approximate heat content of pentanes plus). Data in thousand barrels for net production of conventional motor gasoline and motor gasoline blending components at renewable fuels and oxygenate plants are multiplied by -1; these data are converted to Btu by multiplying by 5.253 million Btu per barrel (the approximate heat content of conventional motor gasoline). Total denaturant is the sum of the values for pentanes plus, conventional motor gasoline, and motor gasoline blending components.

Production

1981–1992: Fuel ethanol production is assumed to equal fuel ethanol consumption—see sources for "Consumption." 1993–2004: Calculated as fuel ethanol consumption plus fuel ethanol stock change minus fuel ethanol net imports. These data differ slightly from the original production data

from EIA, Form EIA-819, "Monthly Oxygenate Report," and predecessor form, which were not reconciled and updated to be consistent with the final balance.

2005–2008: EIA, Form EIA-819, "Monthly Oxygenate Report."

2009–2013: EIA, PSA, annual reports, Table 1, data for net production of fuel ethanol at renewable fuels and oxygenate plants. 2014: EIA, PSM, monthly reports, Table 1, data for net production of fuel ethanol at renewable fuels and oxygenate plants.

Trade, Stocks, and Stock Change

1992–2013: EIA, PSA, annual reports, Table 1. 2014: EIA, PSM, monthly reports, Table 1.

Consumption

1981–1989: EIA, *Estimates of U.S. Biofuels Consumption 1990*, Table 10; and interpolated values for 1982, 1983, 1985, 1986, and 1988.

1990–1992: EIA, Estimates of U.S. Biomass Energy Consumption 1992, Table D2; and interpolated value for 1991.

1993–2004: EIA, PSA, annual reports, Tables 2 and 16. Calculated as 10 percent of oxygenated finished motor gasoline field production (Table 2), plus fuel ethanol refinery input (Table 16).

2005–2008: EIA, PSA, annual reports, Tables 1 and 15. Calculated as motor gasoline blending components adjustments (Table 1), plus finished motor gasoline adjustments (Table 1), plus fuel ethanol refinery and blender net inputs (Table 15). 2009–2013: EIA, PSA, annual reports, Table 1. Calculated as fuel ethanol refinery and blender net inputs minus fuel ethanol adjustments.

2014: EIA, PSM, monthly reports, Table 1. Calculated as fuel ethanol refinery and blender net inputs minus fuel ethanol adjustments.

Consumption Minus Denaturant

1981 forward: Calculated as fuel ethanol consumption minus the amount of denaturant in fuel ethanol consumed. Denaturant in fuel ethanol consumed is estimated by multiplying denaturant in fuel ethanol produced by the fuel ethanol consumption-to-production ratio.

Table 10.4 Sources

Feedstock

2001 forward: Calculated as biodiesel production in thousand barrels multiplied by 5.433 million Btu per barrel (the biodiesel feedstock factor—see Table A3).

Losses and Co-products

2001 forward: Calculated as biodiesel feedstock minus biodiesel production.

Production

2001–2005: U.S. Department of Agriculture, Commodity

Credit Corporation, Bioenergy Program records. Annual data are derived from quarterly data. Monthly data are estimated by dividing the annual data by the number of days in the year and then multiplying by the number of days in the month.

2006: U.S. Department of Commerce, Bureau of the Census, "M311K—Fats and Oils: Production, Consumption, and Stocks," data for soybean oil consumed in methyl esters (biodiesel). In addition, the U.S. Energy Information Administration (EIA) estimates that 14.4 million gallons of yellow grease were consumed in methyl esters (biodiesel).

2007: U.S. Department of Commerce, Bureau of the Census, "M311K—Fats and Oils: Production, Consumption, and Stocks," data for all fats and oils consumed in methyl esters (biodiesel).

2008: EIA, *Monthly Biodiesel Production Report*, December 2009 (release date October 2010), Table 11. Monthly data for 2008 are estimated based on U.S. Department of Commerce, Bureau of the Census, M311K data, multiplied by the EIA 2008 annual value's share of the M311K 2008 annual value.

2009 and 2010: EIA, Monthly Biodiesel Production Report, monthly reports, Table 1.

2011–2013: EIA, *Petroleum Supply Annual (PSA)*, annual reports, Table 1, data for renewable fuels except fuel ethanol.

2014: EIA, *Petroleum Supply Monthly (PSM)*, monthly reports, Table 1, data for renewable fuels except fuel ethanol.

Trade

2001–2011: For imports, U.S. Department of Agriculture, data for the following Harmonized Tariff Schedule codes: 3824.90.40.20, "Fatty Esters Animal/Vegetable Mixture" (data through June 2010); and 3824.90.40.30,

"Biodiesel/Mixes" (data for July 2010–2011). For exports, U.S. Department of Agriculture, data for the following Schedule B codes: 3824.90.40.00, "Fatty Substances Animal/Vegetable/Mixture" (data through 2010); and 3824.90.40.30, "Biodiesel <70%" (data for 2011). (The data above are converted from pounds to gallons by dividing by 7.4.) Although these categories include products other than biodiesel (such as biodiesel coprocessed with petroleum feedstocks; and products destined for soaps, cosmetics, and other items), biodiesel is the largest component. In the absence of other reliable data for biodiesel trade, EIA sees these data as good substitutes.

2012 and 2013: EIA, PSA, annual reports, Tables 25 and 31, data for biomass-based diesel fuel.

2014: EIA, PSM, monthly reports, Tables 37 and 49, data for biomass-based diesel fuel.

Stocks and Stock Change

2009–2013: EIA, PSA, annual reports, Table 1, data for renewable fuels except fuel ethanol.

2014: EIA, PSM, monthly reports, Table 1, data for renewable fuels except fuel ethanol.

Balancing Item

2009 forward: Calculated as biodiesel consumption and biodiesel stock change minus biodiesel production and biodiesel net imports.

Consumption

2001–2008: Calculated as biodiesel production plus biodiesel net imports.

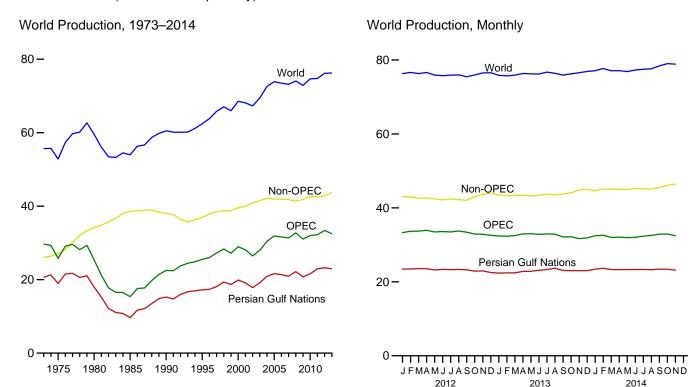
January and February 2009: EIA, PSA, Table 1, data for refinery and blender net inputs of renewable fuels except fuel ethanol.

March 2009 forward: Calculated as biodiesel production plus biodiesel net imports minus biodiesel stock change.

11. International Petroleum

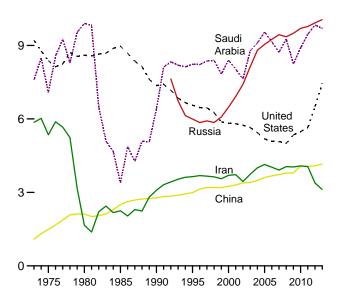
Figure 11.1a World Crude Oil Production Overview

(Million Barrels per Day)



Selected Producers, 1973-2014

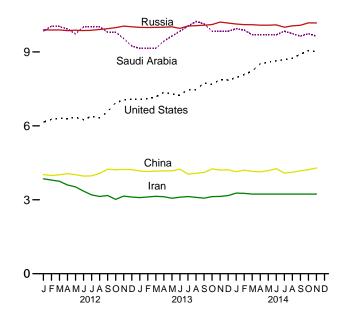
12-



Notes: • OPEC is the Organization of the Petroleum Exporting Countries. • The Persian Gulf Nations are Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and the United Arab Emirates. Production from the Neutral Zone between Kuwait and Saudi Arabia is included in "Per-

Selected Producers, Monthly

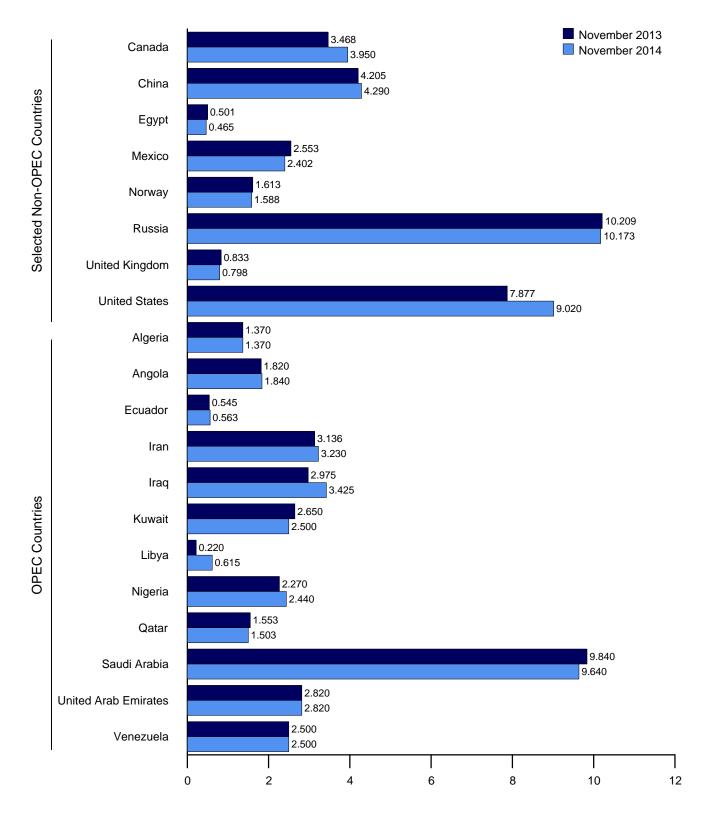
12**-**



sian Gulf Nations."

Web Page: http://www.eia.gov/totalenergy/data/monthly/#international. Sources: Tables 11.1a and 11.1b.

Figure 11.1b World Crude Oil Production by Selected Country (Million Barrels per Day)



Note: OPEC is the Organization of the Petroleum Exporting Countries. Web Page: http://www.eia.gov/totalenergy/data/monthly/#international.

Sources: Tables 11.1a and 11.1b.

Table 11.1a World Crude Oil Production: OPEC Members

(Thousand Barrels per Day)

			. ,										
	Algeria	Angola	Ecuador	Iran	Iraq	Kuwaita	Libya	Nigeria	Qatar	Saudi Arabia ^a	United Arab Emirates	Vene- zuela	Total OPEC ^b
1073 Average	1,097	162	209	5,861	2,018	3,020	2,175	2,054	570	7,596	1,533	3,366	29,661
1973 Average 1975 Average	983	165	161	5,350	2,262	2.084	1.480	1,783	438	7,075	1,664	2,346	25,790
1980 Average	1,106	150	204	1,662	2,514	1,656	1,787	2,055	472	9,900	1,709	2,168	25,383
1985 Average	1,036	231	281	2,250	1,433	1,023	1,059	1,495	301	3,388	1,193	1,677	15,367
1990 Average	1,180	475	285	3,088	2,040	1,175	1,375	1,810	406	6,410	2,117	2,137	22,498
1995 Average	1,162	646	392	3,643	560	2,057	1,390	1,993	442	8,231	2,233	2,750	25,500
1996 Average	1,227	709	396	3,686	579	2,062	1,401	2,001	510	8,218	2,278	2,938	26,003
1997 Average	1,259	714	388 375	3,664	1,155	2,007 2,085	1,446 1,390	2,132 2,153	550 696	8,362	2,316	3,280	27,274
1998 Average	1,226 1,177	735 745	373 373	3,634 3,557	2,150 2,508	1,898	1,319	2,133	665	8,389 7,833	2,345 2,169	3,167 2,826	28,346 27,199
1999 Average 2000 Average	1.214	746	395	3,696	2,500	2.079	1,410	2,165	742	8.404	2,103	3.155	28.944
2001 Average	1,265	742	412	3,724	2.390	1.998	1.367	2,256	730	8,031	2,205	3.010	28.129
2002 Average	1,349	896	393	3,444	2,023	1,894	1,319	2,118	709	7,634	2,082	2,604	26,465
2003 Average	1,516	903	411	3,743	1,308	2,136	1,421	2,275	807	8,775	2,348	2,335	27,977
2004 Average	1,582	1,052	528	4,001	2,011	2,376	1,515	2,329	901	9,101	2,478	2,557	30,432
2005 Average	1,692	1,239	532	4,139	1,878	2,529	1,633	2,627	978	9,550	2,535	2,565	31,897
2006 Average	1,699	1,398	536	4,028	1,996	2,535	1,681	2,440	996	9,152	2,636	2,511	31,607
2007 Average	1,708	1,724	511	3,912	2,086	2,464	1,702	2,350	1,083	8,722	2,603	2,490	31,354
2008 Average	1,705 1,585	1,946 1,867	505 486	4,050 4.037	2,375 2.391	2,586 2,350	1,736 1.650	2,165 2,208	1,198 1,279	9,261 8,250	2,681 2,413	R 2,510 R 2,520	R 32,718 R 31,035
2009 Average 2010 Average	1,565	1,899	486 486	4,037	2,391	2,350	1,650	2,200 2,455	1,279	8,250 8,900	2,415	R 2,410	R 31,993
2011 Average	1,540	1,746	500	4,054	2,626	2,530	465	2,550	1,571	9,458	2,679	R 2,500	R 32,219
2012 January	1,550	1,850	504	3,850	2,675	2,650	1,000	2,520	1,660	9,840	2,720	R 2,500	R 33,319
2012 January February	1,550	1,900	503	3,800	2,575	2,650	1,200	2,520	1,660	10,040	2,720	R 2,500	R 33,678
March	1,550	1,750	499	3,750	2,725	2,640	1,350	2,520	1,560	10,030	2,820	R 2,500	R 33,694
April	1,550	1,850	500	3,600	2,965	2,640	1,400	2,640	1,550	9,930	2,820	R 2,500	R 33,945
May	1,550	1,800	498	3,525	2,925	2,640	1,400	2,580	1,520	9,730	2,820	R 2.500	R 33,488
June	1,544	1,750	502	3,350	2,975	2,630	1,400	2,580	1,515	10,020	2,820	R 2,500	R 33,586
July	1,546	1,700	508	3,200	3,075	2,625	1,400	2,580	1,526	10,015	2,820	R 2,500	R 33,495
August	1,548	1,800	512	3,134	3,175	2,625	1,450	2,640	1,526	10,015	2,820	R 2,500	R 33,745
September	1,550	1,700	506	3,173	3,275	2,610	1,500	2,460	1,526	9,800	2,820	R 2,500	R 33,420
October	1,482	1,750	503	3,018	3,075	2,610	1,500	2,340	1,526	9,800	2,820	R 2,500	R 32,924
November	1,483 1,485	1,730 1,750	504 503	3,150 3,110	3,225 3,125	2,650 2,650	1,450 1,350	2,280 2,520	1,526 1,526	9,540 9,240	2,820 2,820	R 2,500 R 2,500	R 32,858 R 32,579
December Average	1,532	1,777	504	3,387	2,983	2,635	1,367	2,520	1,551	9,832	2,804	R 2,500	R 33,392
2013 January	1,470	1,840	505	3,088	3,075	2,650	1,350	2,410	1,553	9,140	2,820	R 2,500	R 32,401
2013 January February	1,470	1,790	506	3,000	3,075	2,650	1,400	2,320	1,553	9,140	2,820	R 2,500	R 32,339
March	1,470	1,890	504	3,139	3,075	2,650	1,350	2,420	1,553	9.140	2,820	R 2,500	R 32,511
April	1,470	1,855	516	3,124	3,175	2,650	1,450	2,400	1,553	9.440	2,820	R 2.500	R 32,953
May	1,470	1,890	522	3,064	3,075	2,650	1,420	2,420	1,553	9,640	2,820	R 2,500	R 33,024
June	1,470	1,870	524	3,105	3,100	2,650	1,130	2,260	1,553	9,840	2,820	R 2,500	R 32,822
July	1,470	1,790	530	3,130	3,100	2,650	1,000	2,390	1,553	10,040	2,820	^R 2,500	R 32,973
August	1,470	1,770	537	3,097	3,275	2,650	590	2,370	1,553	10,240	2,820	R 2,500	R 32,872
September	1,470	1,810	535	3,065	2,825	2,650	360	2,420	1,553	10,140	2,820	R 2,500	R 32,148
October	1,470	1,800	540	3,127	2,975	2,650	550	2,370	1,553	9,840	2,820	R 2,500	R 32,195
November	1,370	1,820	545	3,136	2,975	2,650	220	2,270	1,553	9,840	2,820	R 2,500 R 2,500	R 31,699
December Average	1,470 1,462	1,840 1,831	548 526	3,169 3,113	2,925 3,054	2,650 2,650	230 918	2,350 2,367	1,553 1,553	9,840 9,693	2,820 2,820	R 2,500	R 31,895 R 32,488
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2014 January	R 1,370	1,690	550	3,270	3,125	2,650	510	2,470	1,563	9,940	2,820	R 2,500	R 32,458
February	R 1,370 R 1,370	1,760	551	3,260	3,425	2,650	380	2,420	1,563	9,890	2,820	R 2,500	R 32,589
March	R 1,370	1,700	557 560	3,230	3,325	2,650 2.650	250 210	R 2,370 2,420	1,563 R 1,553	9,690 9.690	2,820 2.820	R 2,500 R 2,500	R 32,025
April May	R 1,370	1,770 1.710	554	3,230 3,230	3,300 3.325	2,650	230	2,420	R 1,553	9,690	2,820	R 2,500	R 32,073 R 31,952
May June	R 1,370	1,690	555	3,230	3,325	2,650	235	R 2,420	R 1,553	9,690	2,820	R 2,500	R 32,038
July	R 1,370	R 1,740	558	3,230	3,195	2,650	435	2,420	R 1,553	9,840	2,820	R 2,500	R 32,361
August	R 1,370	R 1,840	558	3,230	3,225	2,650	530	2,520	R 1,553	9,740	2,820	R 2,500	R 32,536
September	R 1,370	R 1,850	551	3,230	3,515	2,650	785	2,470	R 1,513	9,640	2,820	R 2,500	R 32,894
October	R 1,370	R 1,875	557	3,230	3,465	2,575	950	R 2,320	R 1,513	9,740	2,820	R 2,500	R 32,915
November	1,370	1,840	563	3,230	3,425	2,500	615	2,440	1,503	9,640	2,820	2,500	32,446
11-Month Average	1,370	1,769	556	3,236	3,330	2,630	467	2,422	1,544	9,744	2,820	2,500	32,388
2013 11-Month Average 2012 11-Month Average	1,461 1,537	1,830 1,780	524 504	3,108 3,412	3,066 2,970	2,650 2,634	982 1,368	2,369 2,520	1,553 1,554	9,680 9,887	2,820 2,802	2,500 2,500	32,543 33,467

^a Except for the period from August 1990 through May 1991, includes about one-half of the production in the Kuwait-Saudi Arabia Neutral Zone. Kuwaiti Neutral Zone output was discontinued following Iraq's invasion of Kuwait on August 2, 1990, but was resumed in June 1991. In November 2014, Neutral Zone production by both Kuwait and Saudi Arabia totaled about 200 thousand barrels per day. Data for Saudi Arabia include approximately 150 thousand barrels per day from the Abu Safah field produced on behalf of Bahrain.
^b See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary. On Tables 11.1a and 11.1b, countries are classified as "OPEC" or "Non-OPEC" in all years based on their status in the most current year. For example, Ecuador rejoined OPEC in 2007, and is thus included in "Total OPEC" for all years; and

Indonesia left OPEC at the end of 2008, and is thus included in "Total Non-OPEC" for all years. R=Revised

Notes: • Data are for crude oil and lease condensate; they exclude natural gas plant liquids. • Monthly data are often preliminary figures and may not average to the annual totals because of rounding or because updates to the preliminary monthly data are not available.

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

Sources: See end of section.

Table 11.1b World Crude Oil Production: Persian Gulf Nations, Non-OPEC, and World

(Thousand Barrels per Day)

1973 Average	Persian Gulf Nations ^b 20,668 18,934 17,961 9,630 15,278 17,208 17,367 18,095 19,337 18,667 19,897 19,114 17,824 19,154 20,906 21,644 21,377 20,904 22,186 20,754 21,589 22,953	Canada 1,798 1,430 1,435 1,471 1,553 1,805 1,837 1,922 1,981 1,997 2,029 2,171 2,306 2,398 2,369 2,525 2,628 2,579 2,741 2,901 3,108 3,249 3,037	China 1,090 1,490 2,114 2,505 2,774 2,990 3,131 3,200 3,198 3,195 3,249 3,300 3,390 3,409 3,485 3,609 3,673 3,790 4,078 4,078 4,078	Egypt 165 235 595 887 873 920 922 856 834 852 768 720 715 713 673 623 535 530 566 587 568 551	Mexico 465 705 1,936 2,745 2,753 2,711 2,944 3,104 3,160 2,998 3,104 3,218 3,263 3,459 3,476 3,423 3,345 3,143 2,839 2,646 2,621 2,660	Norway 32 189 486 773 1,630 2,766 3,091 3,142 3,011 3,019 3,222 3,226 3,131 3,042 2,954 2,698 2,491 2,270 2,182 2,067 1,869	Former U.S.S.R. 8,324 9,523 11,706 11,585 10,975	Russia NA NA NA NA S,995 5,850 5,920 5,854 6,079 6,479 6,917 7,408 8,132 8,805 9,043 9,247 9,437 9,437 9,495	United Kingdom 2 2 1,622 2,530 1,820 2,489 2,568 2,518 2,616 2,684 2,275 2,282 2,292 2,093 1,845 1,649 1,490 1,498 1,391	9,208 8,375 8,597 8,971 7,355 6,560 6,465 6,452 5,881 5,744 5,649 5,441 5,181 5,088 5,077	Total Non- OPECa 26,018 27,039 34,175 38,598 37,999 36,934 37,815 38,532 38,685 39,583 40,003 40,825 41,483 42,163 41,969 41,871	55,679 52,828 59,558 53,965 60,497 62,434 63,818 65,806 67,032 65,967 68,527 68,132 67,290 72,595 73,866 73,478
1975 Average 1980 Average 1990 Average 1995 Average 1995 Average 1996 Average 1997 Average 1998 Average 1998 Average 2000 Average 2001 Average 2002 Average 2003 Average 2004 Average 2005 Average 2006 Average 2010 Average 2010 Average 2011 Average	18,934 17,961 9,630 15,278 17,208 17,367 18,095 19,337 18,667 19,897 19,114 17,824 19,154 20,906 21,377 20,904 22,186 20,754 21,589 22,953 23,436 23,436 23,486 23,566	1,430 1,435 1,471 1,553 1,805 1,837 1,922 1,981 1,907 1,977 2,029 2,171 2,306 2,369 2,525 2,625 2,579 2,579 2,741 2,901 3,108 3,249	1,490 2,114 2,505 2,774 2,990 3,131 3,200 3,198 3,195 3,249 3,300 3,409 3,409 3,673 3,673 3,729 3,790 4,078 4,059	235 595 887 873 920 922 856 834 852 768 720 715 713 673 623 535 530 566 567 568	705 1,936 2,745 2,553 2,711 2,944 3,104 3,160 2,998 3,104 3,218 3,263 3,476 3,423 3,445 3,143 2,839 2,646 2,621	189 486 773 1,630 2,766 3,091 3,142 3,011 3,222 3,226 3,131 2,954 2,698 2,491 2,270 2,182 2,067 1,869	9,523 11,706 11,585 10,975	NA NA NA 5,995 5,850 5,854 6,079 6,479 6,479 6,479 7,408 8,132 8,805 9,043 9,247 9,357	12 1,622 2,530 1,820 2,489 2,568 2,518 2,616 2,684 2,275 2,282 2,292 2,093 1,849 1,490 1,490 1,498	8,375 8,597 8,971 7,355 6,560 6,452 6,252 5,881 5,822 5,801 5,744 5,649 5,441 5,088 5,077	27,039 34,175 38,598 37,999 36,934 37,815 38,532 38,685 38,768 39,583 40,003 40,825 41,483 42,163 41,969 41,871	52,828 59,558 53,965 60,497 62,434 63,818 65,806 67,032 65,967 68,527 68,132 67,290 69,460 72,595 73,866 73,478
1985 Average 1990 Average 1995 Average 1996 Average 1997 Average 1998 Average 1998 Average 2000 Average 2001 Average 2002 Average 2004 Average 2005 Average 2006 Average 2010 Average 2011 Average 2011 Average 2012 Average 2015 Average 2016 Average 2017 Average 2018 Average 2019 Average 2010 Average 2010 Average 2011 Average 2011 Average 2011 Average 2012 January February March April May June July August September October November December Average 2013 January February Pebruary November December Average 2013 January February March Average	9,630 15,278 17,208 17,367 18,095 19,337 18,667 19,114 17,824 19,154 20,906 21,644 21,377 20,904 22,186 20,754 21,589 22,953 23,436 23,486 23,566	1,471 1,553 1,805 1,837 1,922 1,981 1,907 1,977 2,029 2,171 2,306 2,369 2,525 2,525 2,579 2,579 2,579 2,579 2,579 3,108 3,249	2,505 2,774 2,990 3,131 3,200 3,198 3,195 3,249 3,300 3,409 3,485 3,609 3,673 3,729 3,790 4,078 4,059	887 873 920 922 856 834 852 768 720 715 713 623 535 530 566 587	2,745 2,553 2,711 2,944 3,106 2,998 3,104 3,218 3,263 3,459 3,476 3,423 3,345 3,345 3,143 2,839 2,646 2,621	773 1,630 2,766 3,091 3,142 3,011 3,019 3,222 3,226 3,131 3,042 2,954 2,698 2,491 2,270 2,182 2,067 1,869	11,585 10,975 	NA NA 5,995 5,850 5,854 6,079 6,479 6,479 6,917 7,408 8,132 8,805 9,043 9,247 9,437 9,357	2,530 1,820 2,489 2,568 2,518 2,616 2,684 2,275 2,282 2,292 2,093 1,845 1,649 1,490 1,490 1,490	8,971 7,355 6,560 6,465 6,452 6,252 5,881 5,822 5,801 5,744 5,649 5,441 5,181 5,088 5,077	38,598 37,999 36,934 37,815 38,532 38,685 39,583 40,003 40,825 41,483 42,163 41,969 41,871	53,965 60,497 62,434 63,818 65,806 67,032 65,967 68,527 68,132 67,290 69,460 72,595 73,866 73,478
1990 Average 1995 Average 1996 Average 1997 Average 1998 Average 1998 Average 2001 Average 2001 Average 2002 Average 2004 Average 2005 Average 2006 Average 2007 Average 2010 Average 2011 Average 2011 Average 2011 Average 2012 January February March April May June July August September October November December Average 2013 January February February Berger 2013 January February February	15,278 17,208 17,367 18,095 19,337 18,667 19,897 19,114 17,824 19,154 20,906 21,644 21,377 20,904 22,186 20,754 21,589 22,953 23,436 23,436 23,486 23,566	1,553 1,805 1,837 1,922 1,987 1,907 1,907 2,029 2,171 2,306 2,398 2,525 2,625 2,579 2,579 2,741 2,901 3,108 3,249	2,774 2,990 3,131 3,200 3,198 3,195 3,249 3,300 3,409 3,485 3,609 3,673 3,729 3,790 4,078 4,078	873 920 922 856 834 852 768 720 715 713 673 623 535 530 566 587	2,553 2,711 2,944 3,104 3,160 2,998 3,104 3,218 3,459 3,476 3,423 3,443 2,839 2,646 2,621	1,630 2,766 3,091 3,142 3,011 3,222 3,226 3,131 2,954 2,698 2,491 2,270 2,182 2,067 1,869	10,975 	NA 5,995 5,850 5,920 5,854 6,479 6,917 7,408 8,132 8,805 9,043 9,247 9,437 9,357	1,820 2,489 2,568 2,518 2,616 2,684 2,275 2,282 2,292 2,093 1,845 1,649 1,490 1,498 1,391	7,355 6,560 6,465 6,452 6,252 5,881 5,822 5,801 5,744 5,649 5,441 5,088 5,077	37,999 36,934 37,815 38,532 38,685 38,768 39,583 40,003 40,825 41,483 42,163 41,969 41,871	60,497 62,434 63,818 65,806 67,032 65,967 68,527 68,132 67,290 69,460 72,595 73,866 73,478
1995 Average 1996 Average 1997 Average 1998 Average 1999 Average 2000 Average 2001 Average 2002 Average 2003 Average 2005 Average 2006 Average 2007 Average 2008 Average 2010 Average 2010 Average 2010 Average 2010 Average 2011 Average 2012 January February March April May June July August September October November December Average 2013 January February March	17,208 17,367 18,095 19,337 18,667 19,897 19,114 17,824 19,154 20,906 21,644 21,377 20,904 22,186 20,754 21,589 22,953 23,436 23,486 23,566	1,805 1,837 1,922 1,981 1,907 2,029 2,171 2,306 2,398 2,369 2,525 2,628 2,579 2,579 2,579 2,741 2,901	2,990 3,131 3,200 3,198 3,195 3,249 3,300 3,409 3,485 3,609 3,673 3,729 3,790 4,078 4,078 4,022	920 922 856 834 852 768 720 715 713 673 623 535 530 566 587	2,711 2,944 3,104 3,160 2,998 3,104 3,218 3,263 3,459 3,476 3,423 3,345 3,143 2,839 2,646 2,621	2,766 3,091 3,142 3,011 3,019 3,222 3,226 3,131 3,042 2,954 2,698 2,491 2,270 2,182 2,067 1,869		5,995 5,850 5,920 5,854 6,079 6,479 6,917 7,408 8,132 8,805 9,043 9,247 9,437 9,357	2,489 2,568 2,518 2,616 2,684 2,275 2,282 2,292 2,093 1,845 1,649 1,490 1,490 1,498	6,560 6,465 6,452 6,252 5,881 5,822 5,801 5,744 5,649 5,441 5,088 5,077	36,934 37,815 38,532 38,685 38,768 39,583 40,003 40,825 41,483 42,163 41,969 41,871	62,434 63,818 65,806 67,032 65,967 68,527 68,132 67,290 69,460 72,595 73,866 73,478
1997 Average 1998 Average 1999 Average 2000 Average 2001 Average 2002 Average 2003 Average 2005 Average 2006 Average 2007 Average 2008 Average 2008 Average 2010 Average 2010 Average 2010 Average 2010 Average 2010 Average 2011 Average	18,095 19,337 18,667 19,897 19,114 17,824 19,154 20,906 21,644 21,377 20,904 22,186 20,754 21,589 22,953 23,436 23,486 23,566	1,922 1,981 1,907 1,977 2,027 2,171 2,306 2,369 2,525 2,625 2,579 2,579 2,741 2,901 3,108 3,249	3,200 3,198 3,198 3,249 3,300 3,409 3,485 3,667 3,673 3,729 3,790 4,078 4,078	856 834 852 768 720 715 713 673 623 535 530 566 587 568	3,104 3,160 2,998 3,104 3,218 3,263 3,459 3,476 3,423 3,345 3,143 2,839 2,646 2,621	3,142 3,011 3,019 3,222 3,226 3,131 3,042 2,954 2,698 2,491 2,270 2,182 2,067 1,869		5,920 5,854 6,079 6,479 6,917 7,408 8,132 8,805 9,043 9,247 9,437 9,357	2,518 2,616 2,684 2,275 2,282 2,292 2,093 1,845 1,649 1,490 1,498 1,391	6,452 6,252 5,881 5,822 5,801 5,744 5,649 5,441 5,181 5,088 5,077	38,532 38,685 38,768 39,583 40,003 40,825 41,483 42,163 41,969 41,871	65,806 67,032 65,967 68,527 68,132 67,290 69,460 72,595 73,866 73,478
1998 Average 1999 Average 2000 Average 2001 Average 2002 Average 2003 Average 2004 Average 2005 Average 2006 Average 2007 Average 2008 Average 2010 Average 2011 Average	19,337 18,667 19,897 19,114 17,824 19,154 20,906 21,644 21,377 20,904 22,186 20,754 21,589 22,953 23,436 23,436 23,486 23,566	1,981 1,907 1,977 2,029 2,171 2,306 2,398 2,369 2,525 2,628 2,579 2,579 2,579 2,741 2,901	3,198 3,195 3,249 3,300 3,409 3,409 3,673 3,729 3,790 3,796 4,078 4,059	834 852 768 720 715 713 673 623 535 530 566 587 568	3,160 2,998 3,104 3,218 3,263 3,459 3,476 3,423 3,345 3,143 2,839 2,646 2,621	3,011 3,019 3,222 3,226 3,131 3,042 2,954 2,698 2,491 2,270 2,182 2,067 1,869		5,854 6,079 6,479 6,917 7,408 8,132 8,805 9,043 9,247 9,437 9,357	2,616 2,684 2,275 2,282 2,292 2,093 1,845 1,649 1,490 1,498 1,391	6,252 5,881 5,822 5,801 5,744 5,649 5,441 5,181 5,088 5,077	38,685 38,768 39,583 40,003 40,825 41,483 42,163 41,969 41,871	67,032 65,967 68,527 68,132 67,290 69,460 72,595 73,866 73,478
1999 Average 2000 Average 2001 Average 2002 Average 2003 Average 2004 Average 2005 Average 2006 Average 2007 Average 2010 Average 2010 Average 2010 Average 2010 Average 2010 Average 2011 Average 2011 Average 2011 Average 2012 January February March April May June July August September October November December Average 2013 January February Reserved 2013 January February Average 2013 January February Average	19,897 19,114 17,824 19,154 20,906 21,644 21,377 20,904 22,186 20,754 21,589 22,953 23,436 23,486 23,566	1,977 2,029 2,171 2,306 2,398 2,369 2,525 2,628 2,579 2,579 2,741 2,901	3,249 3,300 3,390 3,485 3,609 3,673 3,729 3,790 3,796 4,078 4,059	768 720 715 713 673 623 535 530 566 587 568	3,104 3,218 3,263 3,459 3,476 3,423 3,345 3,143 2,839 2,646 2,621	3,222 3,226 3,131 3,042 2,954 2,698 2,491 2,270 2,182 2,067 1,869	 	6,479 6,917 7,408 8,132 8,805 9,043 9,247 9,437 9,357	2,275 2,282 2,292 2,093 1,845 1,649 1,490 1,498 1,391	5,822 5,801 5,744 5,649 5,441 5,181 5,088 5,077	39,583 40,003 40,825 41,483 42,163 41,969 41,871	68,527 68,132 67,290 69,460 72,595 73,866 73,478
2001 Average	19,114 17,824 19,154 20,906 21,644 21,377 20,904 22,186 20,754 21,589 22,953 23,436 23,486 23,566	2,029 2,171 2,306 2,398 2,369 2,525 2,628 2,579 2,579 2,741 2,901 3,108 3,249	3,300 3,390 3,409 3,485 3,609 3,673 3,729 3,790 3,796 4,078 4,059	720 715 713 673 623 535 530 566 587 568	3,218 3,263 3,459 3,476 3,423 3,345 3,143 2,839 2,646 2,621	3,226 3,131 3,042 2,954 2,698 2,491 2,270 2,182 2,067 1,869	 	6,917 7,408 8,132 8,805 9,043 9,247 9,437 9,357	2,282 2,292 2,093 1,845 1,649 1,490 1,498 1,391	5,801 5,744 5,649 5,441 5,181 5,088 5,077	40,003 40,825 41,483 42,163 41,969 41,871	68,132 67,290 69,460 72,595 73,866 73,478
2002 Average	17,824 19,154 20,906 21,644 21,377 20,904 22,186 20,754 21,589 22,953 23,436 23,486 23,566	2,171 2,306 2,398 2,369 2,525 2,628 2,579 2,579 2,741 2,901 3,108 3,249	3,390 3,409 3,485 3,609 3,673 3,729 3,790 3,796 4,078 4,059	715 713 673 623 535 530 566 587 568	3,263 3,459 3,476 3,423 3,345 3,143 2,839 2,646 2,621	3,131 3,042 2,954 2,698 2,491 2,270 2,182 2,067 1,869	 	7,408 8,132 8,805 9,043 9,247 9,437 9,357	2,292 2,093 1,845 1,649 1,490 1,498 1,391	5,744 5,649 5,441 5,181 5,088 5,077	40,825 41,483 42,163 41,969 41,871	67,290 69,460 72,595 73,866 73,478
2004 Average	20,906 21,644 21,377 20,904 22,186 20,754 21,589 22,953 23,436 23,486 23,566	2,398 2,369 2,525 2,628 2,579 2,579 2,741 2,901 3,108 3,249	3,485 3,609 3,673 3,729 3,790 3,796 4,078 4,059	673 623 535 530 566 587 568	3,476 3,423 3,345 3,143 2,839 2,646 2,621	2,954 2,698 2,491 2,270 2,182 2,067 1,869	 	8,805 9,043 9,247 9,437 9,357	1,845 1,649 1,490 1,498 1,391	5,441 5,181 5,088 5,077	42,163 41,969 41,871	72,595 73,866 73,478
2005 Average 2006 Average 2007 Average 2008 Average 2019 Average 2010 Average 2011 Average 2011 Average 2012 January February March April May June July August September October November December Average 2013 January February	21,644 21,377 20,904 22,186 20,754 21,589 22,953 23,436 23,486 23,566	2,369 2,525 2,628 2,579 2,579 2,741 2,901 3,108 3,249	3,609 3,673 3,729 3,790 3,796 4,078 4,059	623 535 530 566 587 568	3,423 3,345 3,143 2,839 2,646 2,621	2,698 2,491 2,270 2,182 2,067 1,869	 	9,043 9,247 9,437 9,357	1,649 1,490 1,498 1,391	5,181 5,088 5,077	41,969 41,871	73,866 73,478
2006 Average	21,377 20,904 22,186 20,754 21,589 22,953 23,436 23,486 23,566	2,525 2,628 2,579 2,579 2,741 2,901 3,108 3,249	3,673 3,729 3,790 3,796 4,078 4,059	535 530 566 587 568	3,345 3,143 2,839 2,646 2,621	2,491 2,270 2,182 2,067 1,869	 	9,247 9,437 9,357	1,490 1,498 1,391	5,088 5,077	41,871	73,478
2008 Average 2009 Average 2011 Average 2012 January February March April May June July August September October November December Average 2013 January February March	22,186 20,754 21,589 22,953 23,436 23,486 23,566	2,579 2,579 2,741 2,901 3,108 3,249	3,790 3,796 4,078 4,059	566 587 568	2,839 2,646 2,621	2,182 2,067 1,869		9,357	1,391		44 040	
2009 Average 2010 Average 2011 Average 2012 January February March April May June July August September October November December Average 2013 January February March	20,754 21,589 22,953 23,436 23,486 23,566	2,579 2,741 2,901 3,108 3,249	3,796 4,078 4,059 4,022	587 568	2,646 2,621	2,067 1,869					41,810	73,164
2010 Average 2011 Average 2012 January February March April May June July August September October November December Average 2013 January February March	21,589 22,953 23,436 23,486 23,566	2,741 2,901 3,108 3,249	4,078 4,059 4,022	568	2,621	1,869			1,328	5,000 5,350	41,344 41,836	^R 74,062 ^R 72,871
2011 Average 2012 January February March April May June July August September October November December Average 2013 January February March	23,436 23,486 23,566	3,108 3,249	4,022	551	2,600	4 750		9,694	1,233	5,482	42,660	R 74,653
February March April May June July August September October November December Average 2013 January February March	23,486 23,566	3,249			2,000	1,752		9,774	1,026	5,645	42,514	R 74,734
March Á April May June June July August September October November December Average 2013 January February March	23,566			544	2,566	1,761		9,894	1,021	6,153	43,004	R 76,323
April May June July August September October November December Average 2013 January February March		3,037	3,986 4.015	544 544	2,591 2.600	1,745 1.715		9,889 9.891	1,034 977	6,262 6,297	42,957 42,640	R 76,635
May June July August September October November December Average 2013 January February March		3,155	4,015	544 541	2,500	1,715		9,861	977	6,297	42,640	^R 76,334 ^R 76,615
July August September October November December Average 2013 January February March	23,201	3,035	4,021	541	2,591	1,699		9,882	899	6,342	42,424	R 75,912
August	23,351	3,014	3,963	541	2,588	1,583		9,861	950	6,252	42,156	R 75,742
September October November December Average 2013 January February March	23,302 23,336	3,114 3,064	3,968 4,071	538 538	2,571 2,600	1,553 1,570		9,882 9,907	946 792	6,391 6,318	42,415 42,233	^R 75,910 ^R 75,978
November December Average 2013 January February March	23,245	3,011	4,242	538	2,602	1,309		9,941	601	6,574	42,047	^R 75,467
December	22,890	3,173	4,217 4,232	535	2,584	1,549		9,984	682	6,941	43,036	^R 75,960 ^R 76,515
Average 2013 January February March	22,952 22,512	3,271 3,427	4,232	535 535	2,622 2,606	1,517 1,558		10,048 10,018	864 923	7,044 7,081	43,657 43,967	R 76,515
February March	23,233	3,138	4,085	539	2,593	1,607		9,922	888	6,497	42,768	R 76,160
March	22,374	3,329	4,168	531	2,602	1,545		9,995	825	R 7,086	R 43,446	R 75,847
	22,401 22,425	3,259 3,429	4,146 4,164	528 525	2,595 2,555	1,502 1,498		9,990 9,995	823 812	^R 7,101 ^R 7,173	R 43,358 R 43,395	^R 75,697 ^R 75,906
	22,810	3,237	4,174	522	2,557	1,567		10,002	830	^R 7,365	R 43,390	R 76,343
May	22,850	3,026	4,174	519	2,548	1,563		10,018	861	^R 7,285	R 43,223	R 76,247
June July	23,116 23,341	3,146 3,306	4,244 4,043	516 513	2,559 2,522	1,386 1,648		9,955 10,052	781 792	^R 7,243 ^R 7,472	^R 43,388 ^R 43,750	^R 76,210 ^R 76,723
August	23,683	3,471	4,075	510	2,554	1,546		10,052	630	R 7,469	R 43,531	R 76,402
September	23,101	3,352	4,107	507	2,563	1,395		10,082	744	R 7,745	^R 43,783	R 75,932
October November	23,013 23,022	3,335 3,468	4,255 4,205	504 501	2,580 2,553	1,477 1,613		10,109 10,209	732 833	^R 7,684 ^R 7,877	R 44,053 R 44,856	^R 76,248 ^R 76,555
December	23,022	3,534	4,215	498	2,557	1,611		10,203	955	R 7,858	R 44,994	R 76,889
Average	22,932	3,325	4,164	514	2,562	1,530		10,054	801	R 7 ,448	R 43,766	R 76,254
2014 January	23,417	R 3,568	4,141	495	2,545	1,633		10,131	825	RE 7,955	R 44,663	R 77,121
February	23,657 23,327	R 3,578 R 3,685	4,201 4,153	492 489	2,541 2,511	1,621 1,586		10,106 10,103	929 909	RE 8,083 RE 8,224	R 45,112 R 45,055	^R 77,701 ^R 77,080
March April	R 23,292	R 3,556	4,153 4,132	489 486	2,511	1,603		10,103	909 820	RE 8,516	R 45,055	R 77,080
May	R 23.317	R 3,467	4,181	483	2,530	1,376		10,083	869	RE 8,577	R 44,924	R 76,876
June July	^R 23.317	^R 3,548 ^R 3,589	4,259 4.084	480 477	2,476 2.427	1,452 1.605		10,095 10,003	752 705	RE 8,637 RE 8,686	R 45,236 R 45,133	^R 77,274 ^R 77,494
August	^K 23,268	R 3,547	4,064 4,118	477	2,427	1,541		10,003	468	RE 8,743	R 45,078	R 77,614
September	^K 23,418	R 3,595	4,175	471	2,430	1,548		10,079	748	RE 8.902	R 45,523	^R 78,416
	R 23,393	^R 3,716 3,950	R 4,224 4,290	468 465	2,402 2,402	1,619 1,588		10,176	^R 790 798	RE 9,051 E 9,020	R 46,104 46,443	^R 79,019 78,889
November 11-Month Average	23,168 23,354	3,950 3,618	4,290 4,177	465 480	2,402 2,476	1,588 1,561		10,173 10,099	798 782	E 8,584	46,443 45,298	78,889 77,687
2013 11-Month Average 2012 11-Month Average		3,306	4,159 4,072	516 540	2,562 2,591	1,522 1,611		10,043 9,913	787 885	7,410 6,443	43,652 42,657	76,195 76,124

^a See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary. On Tables 11.1a and 11.1b, countries are classified as "OPEC" or "Non-OPEC" in all years based on their status in the most current year. For example, Ecuador rejoined OPEC in 2007, and is thus included in "Total OPEC" for all years; and Indonesia left OPEC at the end of 2008, and is thus included in "Total Non-OPEC"

Notes: • Data are for crude oil and lease condensate; they exclude natural gas Notes. • Data are for clude oil and lease condensate, they exclude hautian gas plant liquids. • Monthly data are often preliminary figures and may not average to the annual totals because of rounding or because updates to the preliminary monthly data are not available. • Data for countries may not sum to World totals due to independent rounding. • U.S. geographic coverage is the 50 states and the District of Columbia.

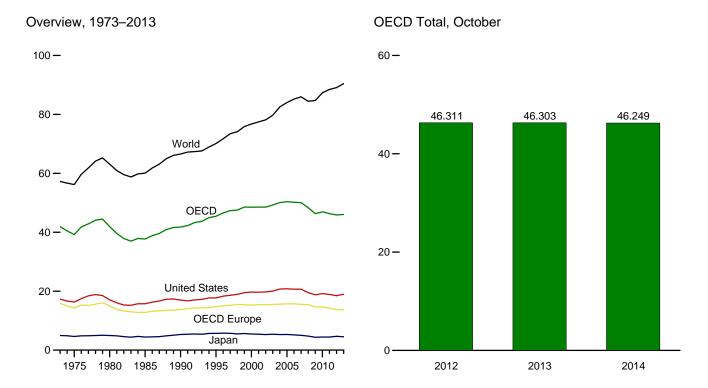
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#international (Excel and CSV files) for all available annual and monthly data beginning in 1973. Sources: See end of section.

Indonesia left OPEC at the end of 2000, and is a limit of all years.

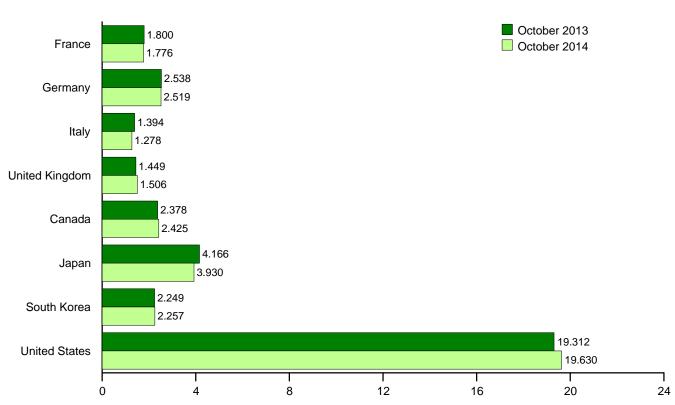
b Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, United Arab Emirates, and the Neutral Zone (between Kuwait and Saudi Arabia).

R=Revised. NA=Not available. — = Not applicable. E=Estimate.

Figure 11.2 Petroleum Consumption in OECD Countries (Million Barrels per Day)



By Selected OECD Country



Note: OECD is the Organization for Economic Cooperation and Development. Web Page: http://www.eia.gov/totalenergy/data/monthly/#international. Source: Table 11.2.

Table 11.2 Petroleum Consumption in OECD Countries

(Thousand Barrels per Day)

	France	Germany ^a	Italy	United Kingdom	OECD Europe ^b	Canada	Japan	South Korea	United States	Other OECD ^C	OECD ^d	World
4070 4	0.004	2 224	0.000	0.044	45.070	4.700	4.040	204	47.000	4.700	44.040	F7 007
1973 Average	2,601	3,324	2,068 1.855	2,341	15,879	1,729	4,949 4.621	281 311	17,308	1,768	41,913 39.232	57,237 56.198
1975 Average	2,252 2,256	2,957 3.082	1,934	1,911	14,314 14,995	1,779 1,873	4,960	537	16,322	1,885 2,449		63,113
1980 Average				1,725				552	17,056		41,870	
1985 Average	1,753	2,651	1,705	1,617	12,772	1,514	4,436		15,726	2,699	37,699	60,085
1990 Average	1,826	2,682	1,868	1,776	13,726	1,722	5,315	1,048	16,988	2,976	41,775	66,550
1995 Average	1,920	2,882	1,942	1,816	14,762	1,799	5,693	2,008	17,725	3,452	45,439	70,132
1996 Average	1,949	2,922	1,920	1,852	15,055	1,853	5,739	2,101	18,309	3,509	46,566	71,714
1997 Average	1,969	2,917	1,934	1,810	15,195	1,940	5,702	2,255	18,620	3,629	47,342	73,464
1998 Average	2,043	2,923	1,943	1,792	15,500	1,931	5,507	1,917	18,917	3,757	47,529	74,117
1999 Average	2,031	2,836	1,891	1,811	15,409	2,016	5,642	2,084	19,519	3,892	48,562	75,880
2000 Average	2,001	2,767	1,854	1,765	15,277	2,008	5,480	2,135	19,701	3,905	48,506	76,751
2001 Average	2,054	2,807	1,835	1,747	15,453	2,029	5,380	2,132	19,649	3,903	48,546	77,452
2002 Average	1,991	2,710	1,870	1,739	15,393	2,040	5,287	2,149	19,761	3,891	48,522	78,144
2003 Average	2,001	2,679	1,860	1,759	15,515	2,155	5,397	2,175	20,034	3,960	49,235	79,715
2004 Average	2,008	2,648	1,829	1,789	15,603	2,233	5,288	2,155	20,731	4,054	50,064	82,547
2005 Average	1,990	2,624	1,781	1,819	15,711	2,269	5,298	2,191	20,802	4,114	50,387	84,030
2006 Average	1,991	2,636	1,777	1,806	15,719	2,266	5,168	2,180	20,687	4,150	50,171	85,182
2007 Average	1,979	2,407	1,729	1,751	15,515	2,344	5,009	2,240	20,680	4,268	50,057	85,964
2008 Average	1,944	2,533	1,667	1,722	15,427	2,267	4,770	2,142	19,498	4,228	48,332	84,452
2009 Average	1.868	2,434	1,544	1,634	14.681	2.184	4,363	2,188	18,771	4,121	46.309	84,719
2010 Average	1.833	2.467	1,544	1,620	14,669	2,283	4,429	2,269	19,180	4.109	46.939	87,331
2011 Average	1,793	2,392	1,494	1,578	14,235	2,310	4,442	2,259	18,882	4,193	46,323	88,474
2012 January	1,778	2,135	1,322	1,450	13,007	2,189	5,132	2,418	18,304	4,100	45,150	NA
February	1,985	2,568	1,369	1,575	14,491	2,264	5,517	2,466	18,643	4,265	47,646	NA
March	1,758	2,264	1,376	1,623	13,713	2,317	5,120	2,206	18,164	4,306	45,826	NA
April	1,720	2,292	1,354	1,610	13,648	2,252	4,345	2,153	18,211	4,119	44,727	NA
May	1,704	2,351	1,363	1,527	13,661	2,356	4,339	2,234	18,589	4,212	45,392	NA
June	1,814	2,521	1,428	1,536	14,171	2,220	4,081	2,358	18,857	4,229	45,915	NA
July	1,832	2,497	1,440	1,517	14,057	2,379	4,341	2,248	18,515	4,199	45,740	NA
August	1.696	2.334	1.387	1,485	13.716	2,513	4,598	2,288	19.156	4,304	46.575	NA
September	1,760	2,389	1,376	1,535	13.785	2,350	4.412	2,319	18.092	4,092	45.048	NA
October	1.840	2,574	1,416	1,431	14,215	2,398	4,392	2,252	18,705	4,350	46,311	NA
November	1,743	2,549	1,317	1,516	13,846	2,563	4,608	2,477	18,528	4,370	46,392	NA
Docombor	1,743	2,213	1,294	1,542	13,013			2,477				NA
December Average	1,772	2,389	1,370	1,528	13,772	2,415 2,352	5,462 4,695	2,432 2,322	18,120 18,490	4,302 4,237	45,764 45,868	89,111
2013 January	1.718	2,230	1.244	1.454	12.872	2.499	5.164	2,421	18.749	4.142	45.848	NA
February	1,850	2,317	1,341	1,526	13,437	2,466	5,279	2,407	18,643	4,214	46,446	NA
March	1,780	2,338	1,298	1,497	13,233	2,397	4,729	2,177	18,531	4,109	45,176	NA
April	1.842	2,585	1,316	1,548	14,004	2.371	4.287	2.286	18,584	4,253	45,785	NA
May	1,771	2,458	1,282	1.482	13,672	2,457	4.085	2,275	18,779	4.181	45.449	NA
June	1,751	2,489	1,287	1,594	13,718	2,406	3,860	2,320	18,806	4,212	45,321	NA
July	1,891	2,450	1,423	1,497	14,192	2,447	4,358	2,263	19,257	4,172	46,689	NA
	1,727	2,420	1,281	1,515	13,809	2,429	4,374	2,325	19,125	4,265	46,326	NA
August September	1,750	2,420	1,336	1,510	13,803	2,423	4,113	2,323	19,123	3.968	45.872	NA
	1,730	2,538	1,394	1,330	14.007	2,432	4,113	2,230	19,232	4,191	46,303	NA
October November	1,661	2,536 2,419	1,394	1,449	13,577	2,376	4,100	2,249	19,312	4,191	46,303	NA NA
December	1,673	2,152	1,306	1,452	13,027	2,400	5,191	2,484	18,983	4,170	46,255	NA OO 442
Average	1,767	2,403	1,315	1,508	13,618	2,431	4,531	2,324	18,961	4,165	46,030	90,443
2014 January	1,644 1,749	2,269 2,282	1,189 1,234	^R 1,424 ^R 1,539	R 12,630 R 13.191	^R 2,417 ^R 2,531	4,986 5,231	2,363 2,385	18,921 18,994	R 3,939 R 4,147	^R 45,257 ^R 46,478	NA NA
February	1,749	2,262	1,196	R 1,445	R 13,150	R 2,344	4,852	2,365	18,526	R 4,078	R 45,288	NA NA
March				1,440 R 1 E 10						R 4 047		
April	1,741	2,387	1,204	R 1,516	R 13,451	R 2,266	4,064	2,289	18,783	R 4,017	R 44,870	NA
May	1,587	2,314	1,241	R 1,474	R 13,150	R 2,348	3,788	2,338	18,516	R 4,089	R 44,229	NA
June	1,735	2,267	1,229	R 1,546	R 13,520	R 2,415	3,774	2,330	18,833	R 4,015	R 44,887	NA
July	1,839	2,501	1,317	1,496	R 14,016	R 2,469	3,929	2,313	19,164	R 4,117	46,007	NA
August	1,675	2,457	1,187	1,533	R 13,525	R 2,402	3,900	2,380	19,276	3,963	R 45,446	NA
September	1,782	R 2,530	1,284	1,512	R 14,051	R 2,484	3,796	2,304	19,039	R 4,007	R 45,680	NA
October	1,776	2,519	1,278	1,506	13,939	2,425	3,930	2,257	19,630	4,068	46,249	NA
10-Month Average	1,720	2,397	1,236	1,498	13,463	2,409	4,219	2,329	18,969	4,043	45,432	NA
2013 10-Month Average 2012 10-Month Average	1,787 1,788	2,427 2,391	1,320 1,383	1,511 1,528	13,682 13,842	2,428 2,325	4,437 4,625	2,295 2,293	18,907 18,524	4,171 4,218	45,919 45,827	NA NA

^a Data are for unified Germany, i.e., the former East Germany and West

R=Revised. NA=Not available.

Totals may not equal sum of components due to independent

rounding. • U.S. geographic coverage is the 50 states and the District of Columbia.

Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#international (Excel and CSV files) for all available annual and monthly data beginning in 1973. Sources: • United States: Table 3.1. • Chile, East Germany, Former Czechoslovakia, Hungary, Mexico, Poland, South Korea, Non-OECD Countries, U.S. Territories, and World: 1973–1979—U.S. Energy Information Administration (EIA), International Energy Database. • Countries Other Than United States: 1980–2008—EIA, International Energy Statistics (IES). • OECD Countries, and U.S. Territories: 2009 forward—EIA, IES. • World: 2009 forward—EIA, Short Term Energy Outlook, February 2015, Table 3a. • All Other Data:—International Energy Agency (IEA), Quarterly Oil Statistics and Energy Balances in OECD Countries, various issues.

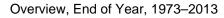
Germany.

b "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom; for 1984 forward, Czech Republic, Hungary, Poland, and Slovakia; and, for 2000 forward, Slovakia; Slovenia.

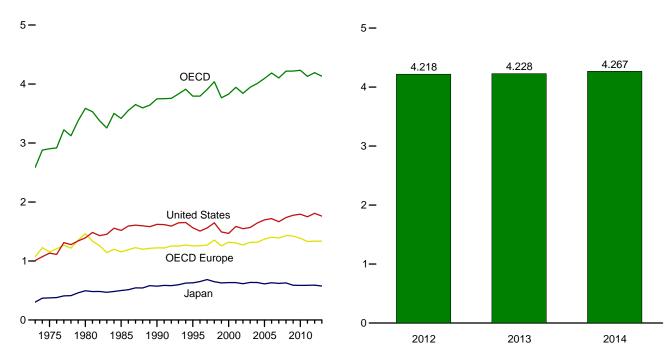
C "Other OECD" consists of Australia, New Zealand, and the U.S. Territories; for

Other Occob Consists of Australia, New Zealand, and the U.S. Territories; for 1984 forward, Mexico; and, for 2000 forward, Chile, Estonia, and Israel.
^d The Organization for Economic Cooperation and Development (OECD) consists of "OECD Europe," Canada, Japan, South Korea, the United States, and "Other OECD."

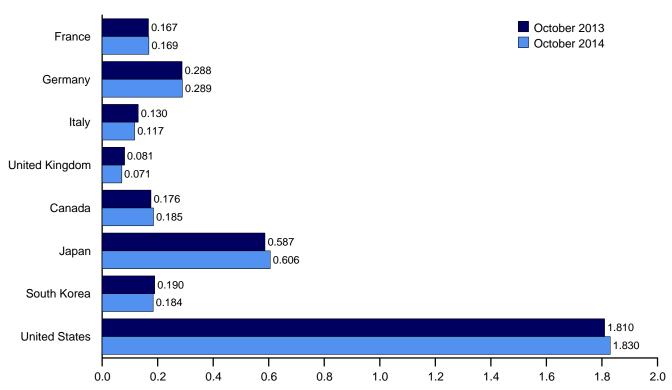
Figure 11.3 Petroleum Stocks in OECD Countries (Billion Barrels)



OECD Stocks, End of Month, October



By Selected OECD Country, End of Month



Note: OECD is the Organization for Economic Cooperation and Development. Web Page: http://www.eia.gov/totalenergy/data/monthly/#international.

Source: Table 11.3.

Table 11.3 Petroleum Stocks in OECD Countries

(Million Barrels)

	France	Germany ^a	Italy	United Kingdom	OECD Europe ^b	Canada	Japan	South Korea	United States	Other OECD ^c	OECD d
1973 Year	201	181	152	156	1,070	140	303	NA	1,008	67	2,588
1975 Year	225	187	143	165	1,154	174	375	NA	1,133	67	2,903
1980 Year	243	319	170	168	1,464	164	495	NA	1,392	72	3,587
1985 Year	139	277	156	131	1,154	112	500	13	1,519	119	3,417
1990 Year	143	280	171	103	1,222	143	572	64	1,621	126	3,749
1995 Year	155	302	162	101	1,256	132	631	92	1,563	122	3,795
1996 Year	154	303	152	103	1,259	127	651	123	1,507	127	3,794
1997 Year	161 169	299	147	100	1,271	144	685 649	124	1,560	123	3,907
1998 Year 1999 Year	160	323 290	153 148	104 101	1,355 1,258	139 141	629	129 132	1,647 1.493	120 114	4,039 3.766
2000 Year	170	272	157	100	1,238	143	634	140	1,468	126	3,829
2001 Year	165	273	151	113	1,306	154	634	143	1,586	120	3,944
2002 Year	170	253	156	104	1,273	155	615	140	1,548	112	3,843
2003 Year	179	273	153	100	1,316	165	636	155	1,568	105	3,945
2004 Year	177	267	154	101	1,319	154	635	149	1,645	108	4,010
2005 Year	185	283	151	95	1,371	168	612	135	1,698	112	4,095
2006 Year	182	283	153	103	1,404	169	631	152	1,720	113	4,187
2007 Year	180	275	152	92	1,389	163	621	143	1,665	121	4,103
2008 Year	179	279	148	93	1,431	162	629	135	1,737	124	4,218
2009 Year	175	284	146	89	1,424	157	589	155	1,776	118	4,219
2010 Year	168	287	143	83	1,385	184	587	165	1,794	119	4,234
2011 Year	165	281	135	80	1,330	178	589	167	1,750	117	4,131
2012 January	166	288	138	84	1,359	178	594	164	1,773	120	4,188
February	165	286	138	84	1,356	180	583	171	1,767	113	4,172
March	165 163	284 284	139 137	82 85	1,367 1.359	171 170	580 592	164 174	1,783 1.784	112 114	4,177 4.194
April	162	281	137	82	1,338	170	592 597	183	1,764	114	4,194
May June	164	280	134	82	1,340	170	601	177	1,810	111	4,210
July	163	285	132	80	1,350	173	608	181	1,813	116	4,240
August	168	284	138	82	1,367	177	603	179	1,801	114	4,240
September	164	283	143	75	1,349	180	606	184	1,819	115	4,253
October	160	282	141	75	1,330	175	614	180	1,810	109	4,218
November	160	287	138	85	1,345	174	604	177	1,810	105	4,216
December	162	287	126	81	1,336	174	591	175	1,808	107	4,192
2013 January	162	292	129	86	1,374	172	593	179	1,811	105	4,233
February	162	289	130	81	1,376	174	583	176	1,790	110	4,210
March	161	291	131	80	1,374	171	591	188	1,793	114	4,231
April	159	289	132	85	1,369	172	598	176	1,808	113	4,237
May	163 166	291 288	121 126	80 84	1,342 1,342	169 174	594 588	177 182	1,817 1.819	110	4,210 4,220
June July	166	288 289	126	84 83	1,342	174	588 579	182	1,819	115 113	4,220
August	167	288	127	84	1,349	185	579	188	1,823	113	4,237
September	166	286	131	82	1,354	183	591	191	1,833	112	4,264
October	167	288	130	81	1,352	176	587	190	1,810	114	4.228
November	167	287	131	75	1,333	174	587	181	1,789	113	4,178
December	167	290	125	78	1,337	170	575	178	1,761	111	4,133
2014 January	171	291	128	^R 76	R 1,360	170	579	178	1,743	111	R 4,140
February	167	296	124	77	1,355	176	576	182	1,743	114	4,146
March	167	289	123	_ 77	1,344	174	586	187	1,753	110	4,153
April	167	291	122	^R 75	1,339	178	576	180	1,780	112	^R 4,165
May	172	294	128	76	1,362	176	584	184	1,809	114	4,230
June	168	292	122	75	1,347	179	585	180	1,814	112	4,217
July	170	287	120	73	1,341	187	591	180	1,818	113	R 4,231
August	173	288	125	76	R 1,360	187	601	188	1,822	117	4,275
September	171	287	123	75 74	1,356	R 186	604	187	1,835	114	R 4,283
October	169	289	117	71	1,347	185	606	184	1,830	114	4,267

a Through December 1983, the data for Germany are for the former West

R=Revised. NA=Not available.

Notes: • Stocks are at end of period. • Petroleum stocks include crude oil

(including strategic reserves), unfinished oils, natural gas plant liquids, and refined products. • In the United States in January 1975, 1981, and 1983, numerous respondents were added to bulk terminal and pipeline surveys, thereby affecting subsequent stocks reported. New-basis end-of-year U.S. stocks, in million barrels, would have been 1,121 in 1974, 1,425 in 1980, and 1,461 in 1982. • Totals may not equal sum of components due to independent rounding. • U.S. geographic coverage is the 50 states and the District of Columbia.

coverage is the 50 states and the District of Columbia.

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

Sources: • United States: Table 3.4. • U.S. Territories: 1983 forward—U.S. Energy Information Administration, International Energy Database.

• All Other Data: 1973–1982—International Energy Agency (IEA), Quarterly Oil Statistics and Energy Balances, various issues. 1983—IEA, Monthly Oil and Gas Statistics Database. 1984 forward—IEA, Monthly Oil Data Service, February 10, 2015

Germany only. Beginning with January 1984, the data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

^b "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom; for 1984 forward, Czech Republic, Hungary, Poland, and Slovakia; and, for 2000 forward,

Slovenia.

^c "Other OECD" consists of Australia, New Zealand, and the U.S. Territories; for

¹⁹⁸⁴ forward, Mexico; and, for 2000 forward, Chile, Estonia, and Israel.

d The Organization for Economic Cooperation and Development (OECD) consists of "OECD Europe," Canada, Japan, South Korea, the United States, and 'Other OECD."

International Petroleum

Tables 11.1a and 11.1b Sources

United States

Table 3.1.

2015.

All Other Countries and World, Annual Data

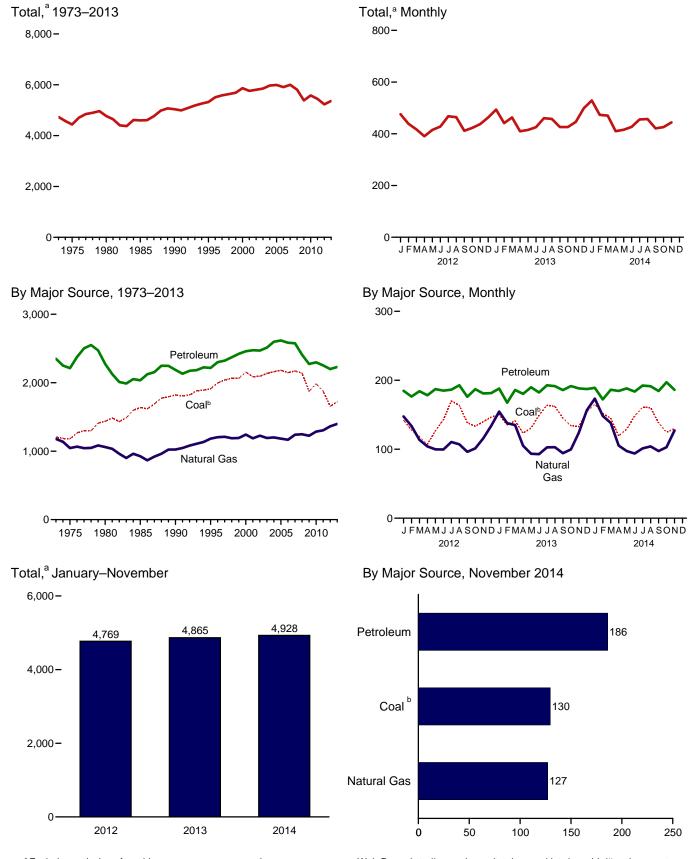
1973–1979: U.S. Energy Information Administration (EIA), *International Energy Annual 1981*, Table 8. 1980 forward: EIA, International Energy Database, February 2015.

All Other Countries and World, Monthly Data

1973–1980: *Petroleum Intelligence Weekly (PIW), Oil & Gas Journal (OGJ)*, and EIA adjustments. 1981–1993: *PIW, OGJ*, and other industry sources. 1994 forward: EIA, International Energy Database, February

12. Environment

Figure 12.1 Carbon Dioxide Emissions From Energy Consumption by Source (Million Metric Tons of Carbon Dioxide)



^a Excludes emissions from biomass energy consumption.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#environment. Source: Table 12.1.

^b Includes coal coke net imports.

Carbon Dioxide Emissions From Energy Consumption by Source

(Million Metric Tons of Carbon Dioxidea)

			Petroleum											
	Coalb	Natural Gas ^c	Aviation Gasoline	Distillate Fuel Oild	Jet Fuel	Kero- sene	LPGe	Lubri- cants	Motor Gasoline ^f	Petroleum Coke	Residual Fuel Oil	Other ^g	Total	Total ^{h,i}
1973 Total 1975 Total 1985 Total 1985 Total 1990 Total 1990 Total 1995 Total 1996 Total 1997 Total 1997 Total 1998 Total 1998 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2008 Total 2008 Total 2009 Total 2009 Total 2009 Total 2007 Total 2008 Total 2009 Total 2009 Total 2010 Total 2011 Total	1,207 1,181 1,436 1,638 1,821 1,913 1,995 2,040 2,062 2,155 2,088 2,095 2,136 2,136 2,147 2,172 2,140 1,876	1,178 1,046 1,061 926 1,024 1,183 1,204 1,210 1,183 1,243 1,183 1,227 1,193 1,183 1,183 1,164 1,244 1,248 1,245 1,246 1,246 1,246 1,286 1,305	6543333322322222222222	480 443 446 445 470 498 524 537 555 579 597 586 610 632 639 645 647 610 559 585	155 146 156 178 223 222 234 235 245 254 243 227 237 237 240 246 240 238 226 209	32 24 24 177 6 8 9 10 12 11 10 10 10 8 8 10 10 2 3 3 3 3 2	92 82 87 67 80 86 87 82 90 97 88 89 81 87 87 87 87 87 87 87 87 87	13 11 13 12 13 13 13 14 14 14 14 11 12 11 12 11 11 10	911 910 930 988 1,045 1,063 1,075 1,107 1,128 1,136 1,187 1,210 1,209 1,217 1,211 1,143 1,129 1,112 1,1078	54 51 49 54 70 76 80 93 96 86 96 96 107 106 100 93 87 79	508 443 453 216 220 152 142 158 148 163 144 125 138 155 165 122 128 110 90 93 79	100 97 142 93 127 121 139 145 128 133 118 135 130 142 144 143 152 150 132 117	2,350 2,212 2,275 2,187 2,216 2,300 2,323 2,372 2,452 2,459 2,474 2,513 2,598 2,617 2,584 2,576 2,409 2,273 2,299 2,252	4,735 4,439 4,771 4,600 5,039 5,323 5,510 5,584 5,668 5,868 5,761 5,804 5,853 5,970 5,993 5,910 6,001 5,809 5,582 5,542
Page 2012 January	142 128 118 107 127 143 170 163 138 133 140 147	147 134 114 104 100 110 110 107 96 101 116 134 1,363	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	50 48 48 47 49 47 46 49 46 50 48 46 574	16 16 17 16 18 19 18 17 17 17 17	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	8 7 7 6 6 6 6 6 6 6 7 7 8 81	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	86 84 90 88 94 91 92 96 87 91 86 88	7 5 6 7 7 6 8 7 6 7 7	7 5 6 6 5 5 7 6 5 5 5 5 5 5 5 5 5 5 5 5	9 10 9 8 8 10 10 7 11 11 12 113	185 176 184 178 187 185 186 193 176 187 181 181 2,200	476 439 417 390 415 428 468 464 412 423 438 463 5,232
2013 January	150 135 141 123 131 149 164 162 145 134 133 154 R 1,721	155 138 135 105 93 103 103 94 100 124 157 1,399	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	53 47 49 48 48 46 47 47 46 52 48 50 581	16 15 17 17 18 18 19 19 17 18 17	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	9 8 7 6 6 7 6 8 8 9 88	1 1 1 1 1 1 1 1 1 1 1 1	87 79 90 89 94 92 96 95 90 93 90 90 1,087	7 5 5 7 7 7 7 6 7 6	5 4 7 4 4 4 5 6 5 4 5 3 56	9 8 9 11 9 11 9 12 9 11 11 119	188 167 186 180 190 182 193 192 186 192 188 187 2,231	494 441 463 410 415 425 460 R 457 426 426 446 499 R 5,363
Pebruary	165 152 145 119 129 148 161 160 138 125 130 1,573	R 173 R 148 138 105 R 97 94 R 101 R 104 R 97 R 103 127 1,289	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	55 49 52 50 51 48 50 49 49 55 49	17 15 18 17 17 19 19 18 18 18	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	10 7 7 6 5 6 6 6 7 8 74	1 1 1 1 1 1 1 1 1 1 1 1	85 82 91 91 94 91 96 97 89 96 90 1,001	8 5 4 6 7 6 7 7 7 7 7	4 3 3 4 4 4 4 4 5 4 4	9 10 9 10 9 9 9 11 9 103	189 172 186 185 188 184 192 191 184 197 186 2,055	529 R 473 R 470 410 416 427 456 457 421 426 444 4,928
2013 11-Month Total 2012 11-Month Total	1,568 1,511	1,242 1,229	1 2	531 528	193 188	1 1	79 73	9 9	996 983	72 72	54 62	108 101	2,044 2,019	4,865 4,769

a Metric tons of carbon dioxide can be converted to metric tons of carbon

R=Revised. (s)=Less than 0.5 million metric tons.

Notes: • Data are estimates for carbon dioxide emissions from energy consumption, including the nonfuel use of fossil fuels. See "Section 12 Methodology and Sources" at end of section. • See "Carbon Dioxide" in Glossary.

See Note 1, "Emissions of Carbon Dioxide and Other Greenhouse Gases," at end of section. • Data exclude emissions from biomass energy consumption. See Table 12.7 and Note 2, "Accounting for Carbon Dioxide Emissions From Biomass Energy Combustion," 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.

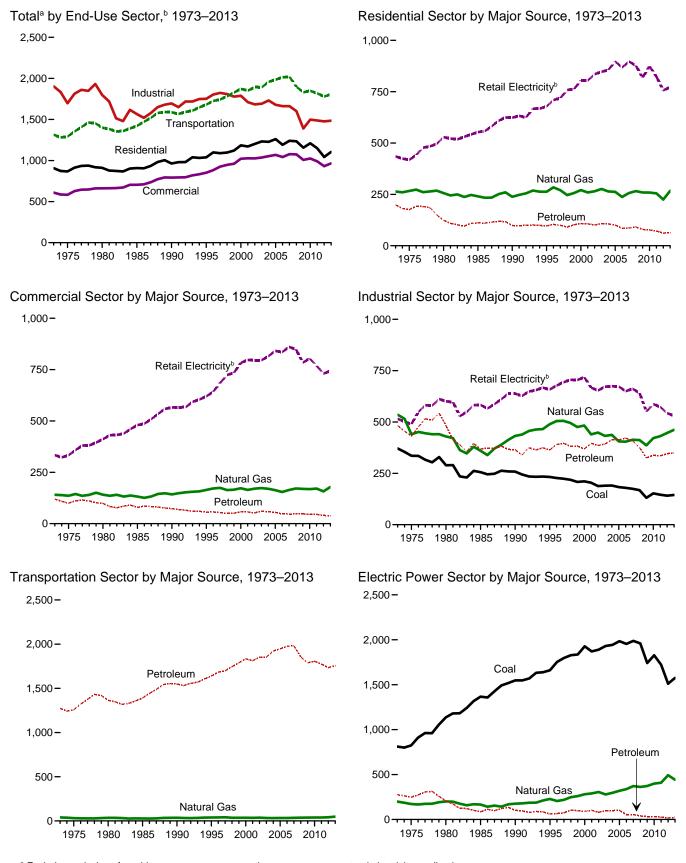
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#environment (Excel and CSV files) for all available annual and monthly data beginning in 1973. Sources: See end of section.

Sources: See end of section.

<sup>a Metric tons of carbon dioxide can be converted to metric tons of carbon equivalent by multiplying by 12/44.
b Includes coal coke net imports.
c Natural gas, excluding supplemental gaseous fuels.
d Distillate fuel oil, excluding biodiesel.
e Liquefied petroleum gases.
f Finished motor gasoline, excluding fuel ethanol.
g Aviation gasoline blending components, crude oil, motor gasoline blending components, pentanes plus, petrochemical feedstocks, special naphthas, still gas, unfinished oils, waxes, and miscellaneous petroleum products.
h Includes electric power sector use of geothermal energy and non-biomass waste. See Table 12.6.
Excludes emissions from biomass energy consumption. See Table 12.7.</sup>

Excludes emissions from biomass energy consumption. See Table 12.7.

Figure 12.2 Carbon Dioxide Emissions From Energy Consumption by Sector (Million Metric Tons of Carbon Dioxide)



^a Excludes emissions from biomass energy consumption.

total electricity retail sales.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#environment. Sources: Tables 12.2–12.6.

^b Emissions from energy consumption in the electric power sector are allocated to the end-use sectors in proportion to each sector's share of

Table 12.2 Carbon Dioxide Emissions From Energy Consumption: Residential Sector

Page					Petrole	eum			
1975 Total		Coal			Kerosene	LPG ^d	Total		Total ^f
1975 Total	1973 Total	9	264	147	16	36	199	435	907
1980 Total	1975 Total					32			867
1985 Total	1980 Total	3	256		8	20	124	529	911
1995 Total	1985 Total								909
1996 Total	1990 Total								963
1997 Total	1995 Total								1,039
1998 Total	1996 Total								1,099
1999 Total	1997 Total	-							1,090
2000 Total	1998 Total	•							1,097
2001 Total	2000 Total					33 25			1,122 1,185
2002 Total	2000 Total	•				33			1,171
2003 Total		i				34			1,203
2004 Total		i				34			1,232
2005 Total		i				32			1,227
2005 Total		1			6		101		1,261
2007 Total		1	237	52	5	28	85	869	1,191
2005 Total	2007 Total	1		53	3	31			1,241
2009 fotal	2008 Total					35			1,234
2011 Total	2009 Total								1,157
2012 January	2010 Total					33			1,210
February	2011 Total	NA	255	38	1	32	72	823	1,150
February	2012 January	NΙΛ	12		(a)	2	7	60	118
March NA 22 3 (s) 2 6 50 April NA 15 2 (s) 2 4 44 May NA 9 2 (s) 2 5 55 Juln NA 7 2 (s) 2 4 69 July NA 6 2 (s) 2 4 492 August NA 6 2 (s) 2 4 65 October NA 13 2 (s) 2 4 65 December NA 26 3 (s) 2 5 66 Total NA 48	Echruch		43	3		2			100
April NA 15 2 (s) 2 4 444 May NA 9 9 2 (s) 2 5 55 June NA 7 2 (s) 2 4 69 June NA 7 2 (s) 2 4 69 July NA 6 2 (s) 2 4 69 August NA 6 3 (s) 2 5 84 September NA 6 2 (s) 2 4 65 October NA 13 2 (s) 2 4 65 December NA 26 3 (s) 2 5 66 December NA 36 3 (s) 2 5 5 66 December NA 36 3 (s) 2 5 5 66 December NA 36 3 (s) 2 5 5 66 December NA 36 3 (s) 2 5 5 66 December NA 36 5 5 (s) 2 8 61 March NA 36 5 5 (s) 2 7 62 April NA 20 3 (s) 2 7 62 April NA 20 3 (s) 2 7 62 April NA 20 3 (s) 2 7 62 April NA 6 2 (s) 2 4 51 June NA 7 2 (s) 2 4 51 July NA 6 2 2 (s) 2 4 51 July NA 6 2 2 (s) 2 4 51 July NA 6 2 2 (s) 2 4 51 August NA 6 2 (s) 2 4 51 August NA 6 2 (s) 2 4 51 August NA 6 2 (s) 2 4 67 August NA 6 6 2 (s) 2 4 67 August NA 6 6 2 (s) 2 4 67 August NA 6 6 2 (s) 2 4 67 August NA 6 6 2 (s) 2 4 67 August NA 6 6 2 (s) 2 4 67 August NA 6 6 2 (s) 2 4 67 August NA 6 6 2 (s) 2 4 67 August NA 6 6 2 (s) 2 4 67 August NA 6 6 2 (s) 2 4 67 August NA 6 6 2 (s) 2 4 67 August NA 6 6 2 (s) 2 4 67 August NA 6 6 2 (s) 2 4 67 August NA 6 6 2 (s) 2 4 67 August NA 6 6 2 (s) 2 4 67 August NA 6 6 2 (s) 2 4 67 August NA 6 6 2 (s) 2 4 67 August NA 6 6 7 44 August NA 6 6 7 4 67 August NA 6 6 7 4 67 August NA 6 7 2 (s) 2 6 6 63 April NA 19 2 6 6 63 April			22		(8)	2			78
May NA 9 2 (s) 2 5 55 55 54 July NA 6 2 (s) 2 4 69 July NA 6 2 (s) 2 4 92 4 65 2 4 65 3 (s) 2 4 65 3 November NA 26 3 (s) 2 5 56 66 65 7 7 7 2 4 65 3 (s) 2 5 56 66 65 7 7 7 2 4 65 3 8 7 7 2 60 2 4 65 3 3 8 7						2			64
July			13	2		2			68
July			7	2		2		69	80
August NA 6 3 (s) 2 5 84 September NA 6 2 (s) 2 4 65 October NA 13 2 (s) 2 4 53 November NA 26 3 (s) 2 5 56 December NA 36 3 (s) 2 6 655 Total NA 28 6 65 7 66 655 Total NA 48 6 (s) 3 8 72 2013 January NA 41 5 (s) 2 8 61 March NA 36 5 (s) 2 7 62 April NA 20 3 (s) 2 7 62 April NA 11 2 (s) 2 4 51 Julne			6	2		2		92	102
September				3		2	5		95
October NA 13 2 (s) 2 4 53 November NA 26 3 (s) 2 5 56 December NA 36 3 (s) 2 6 65 Total NA 25 35 1 25 61 757 2013 January NA 48 6 (s) 3 8 72 February NA 41 5 (s) 2 8 61 March NA 36 5 (s) 2 7 62 April NA 20 3 (s) 2 6 50 May NA 11 2 (s) 2 4 61 June NA 7 2 (s) 2 4 61 June NA 6 2 (s) 2 4 67 July NA				2		2			75
November	October	NA			(s)	2			71
Total NA 225 35 1 25 61 757 2013 January NA 48 6 (s) 3 8 72 February NA 41 5 (s) 2 8 61 March NA 36 5 (s) 2 7 62 April NA 20 3 (s) 2 6 50 May NA 11 2 (s) 2 4 51 June NA 7 2 (s) 2 3 67 July NA 6 2 (s) 2 4 83 August NA 6 2 (s) 2 4 79 September NA 6 2 (s) 2 4 67 October NA 12 2 (s) 2 4 54 November NA <td>November</td> <td></td> <td></td> <td></td> <td>(s)</td> <td>2</td> <td></td> <td></td> <td>88</td>	November				(s)	2			88
2013 January NA 48 6 (s) 3 8 72 February NA 41 5 (s) 2 8 61 March NA 36 5 (s) 2 7 62 April NA 20 3 (s) 2 6 50 May NA 11 2 (s) 2 4 51 June NA 7 2 (s) 2 4 51 June NA 6 2 (s) 2 4 51 June NA 6 2 (s) 2 4 51 June NA 6 2 (s) 2 4 43 June NA 6 2 (s) 2 4 47 September NA 6 2 (s) 2 4 54 November NA					(s)				107
February	Total	NA	225	35	1	25	61	757	1,043
February NA 41 5 (s) 2 8 61 March NA 36 5 (s) 2 7 62 April NA 20 3 (s) 2 6 50 May NA 11 2 (s) 2 4 51 June NA 6 2 2 (s) 2 4 79 September NA 6 2 2 (s) 2 4 79 September NA 6 3 (s) 2 4 67 October NA 6 3 (s) 2 4 67 December NA 6 3 (s) 2 4 67 December NA 6 3 (s) 2 4 67 December NA 6 6 3 (s) 2 4 67 December NA 6 6 3 (s) 2 4 67 December NA 6 6 3 (s) 2 5 54 December NA 6 6 3 (s) 2 6 77 December NA 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	2013 January			6	(s)	3	8		128
April NA 20 3 (s) 2 6 50 May NA 11 2 (s) 2 4 51 July NA 7 2 (s) 2 3 67 July NA 6 2 (s) 2 4 83 August NA 6 2 (s) 2 4 79 September NA 6 2 (s) 2 4 67 October NA 12 2 (s) 2 4 54 November NA 28 3 (s) 2 5 54 December NA 46 3 (s) 3 6 74 Total NA 46 3 (s) 3 6 84 February NA 46 4 (s) 3 6 84 February NA	February			5		2	8		110
December NA 46 3 (s) 3 6 74 Total NA 267 36 1 27 64 773 2014 January NA 56 4 (s) 3 6 84 February NA 46 4 (s) 2 6 73 March NA 38 4 (s) 2 6 63 April NA 19 2 (s) 2 4 47 May NA 11 2 (s) 2 4 47 June NA 7 2 (s) 2 4 66 July NA 6 2 (s) 2 4 78 August NA 6 2 (s) 2 4 78 September NA 7 2 (s) 2 5 64 October NA <td></td> <td></td> <td>36</td> <td></td> <td></td> <td>2</td> <td></td> <td></td> <td>106</td>			36			2			106
December NA 46 3 (s) 3 6 74 Total NA 267 36 1 27 64 773 2014 January NA 56 4 (s) 3 6 84 February NA 46 4 (s) 2 6 73 March NA 38 4 (s) 2 6 63 April NA 19 2 (s) 2 4 47 May NA 11 2 (s) 2 4 47 June NA 7 2 (s) 2 4 66 July NA 6 2 (s) 2 4 78 August NA 6 2 (s) 2 4 78 September NA 7 2 (s) 2 5 64 October NA <td></td> <td></td> <td></td> <td></td> <td></td> <td>2</td> <td></td> <td></td> <td>76</td>						2			76
December NA 46 3 (s) 3 6 74 Total NA 267 36 1 27 64 773 2014 January NA 56 4 (s) 3 6 84 February NA 46 4 (s) 2 6 73 March NA 38 4 (s) 2 6 63 April NA 19 2 (s) 2 4 47 May NA 11 2 (s) 2 4 47 June NA 7 2 (s) 2 4 66 July NA 6 2 (s) 2 4 78 August NA 6 2 (s) 2 4 78 September NA 7 2 (s) 2 5 64 October NA <td></td> <td></td> <td></td> <td>2</td> <td></td> <td>2</td> <td>4</td> <td></td> <td>66</td>				2		2	4		66
December NA 46 3 (s) 3 6 74 Total NA 267 36 1 27 64 773 2014 January NA 56 4 (s) 3 6 84 February NA 46 4 (s) 2 6 73 March NA 38 4 (s) 2 6 63 April NA 19 2 (s) 2 4 47 May NA 11 2 (s) 2 4 47 June NA 7 2 (s) 2 4 66 July NA 6 2 (s) 2 4 78 August NA 6 2 (s) 2 4 78 September NA 7 2 (s) 2 5 64 October NA <td></td> <td></td> <td></td> <td>2</td> <td></td> <td>2</td> <td>3</td> <td></td> <td>77</td>				2		2	3		77
December NA 46 3 (s) 3 6 74 Total NA 267 36 1 27 64 773 2014 January NA 56 4 (s) 3 6 84 February NA 46 4 (s) 2 6 73 March NA 38 4 (s) 2 6 63 April NA 19 2 (s) 2 4 47 May NA 11 2 (s) 2 4 47 June NA 7 2 (s) 2 4 66 July NA 6 2 (s) 2 4 78 August NA 6 2 (s) 2 4 78 September NA 7 2 (s) 2 5 64 October NA <td></td> <td></td> <td></td> <td>2</td> <td></td> <td>2</td> <td></td> <td></td> <td>93 89</td>				2		2			93 89
December NA 46 3 (s) 3 6 74 Total NA 267 36 1 27 64 773 2014 January NA 56 4 (s) 3 6 84 February NA 46 4 (s) 2 6 73 March NA 38 4 (s) 2 6 63 April NA 19 2 (s) 2 4 47 May NA 11 2 (s) 2 4 47 June NA 7 2 (s) 2 4 66 July NA 6 2 (s) 2 4 78 August NA 6 2 (s) 2 4 78 September NA 7 2 (s) 2 5 64 October NA <td></td> <td></td> <td></td> <td> 2</td> <td></td> <td>2</td> <td></td> <td></td> <td>89 77</td>				2		2			89 77
December NA 46 3 (s) 3 6 74 Total NA 267 36 1 27 64 773 2014 January NA 56 4 (s) 3 6 84 February NA 46 4 (s) 2 6 73 March NA 38 4 (s) 2 6 63 April NA 19 2 (s) 2 4 47 May NA 11 2 (s) 2 4 47 June NA 7 2 (s) 2 4 66 July NA 6 2 (s) 2 4 78 August NA 6 2 (s) 2 4 78 September NA 7 2 (s) 2 5 64 October NA <td></td> <td></td> <td></td> <td> 2</td> <td></td> <td>2</td> <td></td> <td></td> <td>70</td>				2		2			70
December NA 46 3 (s) 3 6 74 Total NA 267 36 1 27 64 773 2014 January NA 56 4 (s) 3 6 84 February NA 46 4 (s) 2 6 73 March NA 38 4 (s) 2 6 63 April NA 19 2 (s) 2 4 47 May NA 11 2 (s) 2 4 47 June NA 7 2 (s) 2 4 66 July NA 6 2 (s) 2 4 78 August NA 6 2 (s) 2 4 78 September NA 7 2 (s) 2 5 64 October NA <td></td> <td></td> <td></td> <td>3</td> <td>(8)</td> <td>2</td> <td>5</td> <td></td> <td>88</td>				3	(8)	2	5		88
Total NA 267 36 1 27 64 773 2014 January NA 56 4 (s) 3 6 84 February NA 46 4 (s) 2 6 73 March NA 38 4 (s) 2 6 63 April NA 19 2 (s) 2 4 47 May NA 11 2 (s) 2 4 51 June NA 7 2 (s) 2 4 66 July NA 6 2 (s) 2 4 78 August NA 6 2 (s) 2 4 78 September NA 7 2 (s) 2 5 64 October NA 12 R3 (s) 2 5 51 November NA </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>3</td> <td></td> <td></td> <td>126</td>						3			126
February NA 46 4 (s) 2 6 73 March NA 38 4 (s) 2 6 63 April NA 19 2 (s) 2 4 47 May NA 11 2 (s) 2 4 51 June NA 7 2 (s) 2 4 66 July NA 6 2 (s) 2 4 78 August NA 6 2 (s) 2 4 78 September NA 7 2 (s) 2 5 64 October NA 12 R3 (s) 2 5 51 November NA 29 3 (s) 2 6 54 11-Month Total NA 237 29 1 24 53 709	Total				1				1,104
February NA 46 4 (s) 2 6 73 March NA 38 4 (s) 2 6 63 April NA 19 2 (s) 2 4 47 May NA 11 2 (s) 2 4 51 June NA 7 2 (s) 2 4 66 July NA 6 2 (s) 2 4 78 August NA 6 2 (s) 2 4 78 September NA 7 2 (s) 2 5 64 October NA 12 R3 (s) 2 5 51 November NA 29 3 (s) 2 6 54 11-Month Total NA 237 29 1 24 53 709	2014 January					3	6		147
April NA 19 2 (s) 2 4 47 May NA 11 2 (s) 2 4 51 June NA 7 2 (s) 2 4 66 July NA 6 2 (s) 2 4 78 August NA 6 2 (s) 2 4 78 September NA 7 2 (s) 2 5 64 October NA 12 R3 (s) 2 5 51 November NA 29 3 (s) 2 6 54 11-Month Total NA 237 29 1 24 53 709	February				(s)	2	6		126
April NA 19 2 (s) 2 4 47 May NA 11 2 (s) 2 4 51 June NA 7 2 (s) 2 4 66 July NA 6 2 (s) 2 4 78 August NA 6 2 (s) 2 4 78 September NA 7 2 (s) 2 5 64 October NA 12 R3 (s) 2 5 51 November NA 29 3 (s) 2 6 54 11-Month Total NA 237 29 1 24 53 709						2			107
June NA 7 2 (s) 2 4 66 July NA 6 2 (s) 2 4 78 August NA 6 2 (s) 2 4 78 September NA 7 2 (s) 2 5 64 October NA 12 R3 (s) 2 5 51 November NA 29 3 (s) 2 6 54 11-Month Total NA 237 29 1 24 53 709				2		2			70
July NA 6 2 (s) 2 4 78 August NA 6 2 (s) 2 4 78 September NA 7 2 (s) 2 5 64 October NA 12 R3 (s) 2 5 51 November NA 29 3 (s) 2 6 54 11-Month Total NA 237 29 1 24 53 709				2	(s)	2			67
September NA 7 2 (s) 2 5 64 October NA 12 R3 (s) 2 5 51 November NA 29 3 (s) 2 6 54 11-Month Total NA 237 29 1 24 53 709	June			2	(s)	2			76
September NA 7 2 (s) 2 5 64 October NA 12 R3 (s) 2 5 51 November NA 29 3 (s) 2 6 54 11-Month Total NA 237 29 1 24 53 709				2	(s)	2	4		87
October NA 12 R3 (s) 2 5 51 November NA 29 3 (s) 2 6 54 11-Month Total NA 237 29 1 24 53 709				2		2			87
November				2		2	۶		75 67
11-Month Total NA 237 29 1 24 53 709	Uctober		12			2			67
					(S)				89 999
2013 11-Month Total NA 221 33 (s) 25 58 700					ı				
2012 11-Month Total NA 189 32 1 23 56 694	2013 11-Month Total 2012 11-Month Total	NA NA	221 189	33 32	(s) 1	25 23	58 56	700 694	979 938

Notes: • Data are estimates for carbon dioxide emissions from energy consumption. See "Section 12 Methodology and Sources" at end of section.
• See "Carbon Dioxide" in Glossary. • See Note 1, "Emissions of Carbon Dioxide and Other Greenhouse Gases," at end of section. • Data exclude emissions from biomass energy consumption. See Table 12.7 and Note 2, "Accounting for Carbon Dioxide Emissions From Biomass Energy Combustion," 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/#environment (Excel and CSV files) for all available annual and monthly data beginning in 1973. Sources: See end of section.

<sup>a Metric tons of carbon dioxide can be converted to metric tons of carbon equivalent by multiplying by 12/44.

b Natural gas, excluding supplemental gaseous fuels.
c Distillate fuel oil, excluding biodiesel.
d Liquefied petroleum gases.
E missions from energy consumption (for electricity and a small amount of useful thermal output) in the electric power sector are allocated to the end-use sectors in proportion to each sector's share of total electricity retail sales. See Tables 7.6 and 12.6.
Excludes emissions from biomass energy consumption. See Table 12.7.
R=Revised. NA=Not available. (s)=Less than 0.5 million metric tons.</sup>

Table 12.3 Carbon Dioxide Emissions From Energy Consumption: Commercial Sector

	Coal	Natural Gas ^b	Distillate			1 1				1	
		Gas	Fuel Oil ^c	Kerosene	LPG ^d	Motor Gasoline ^e	Petroleum Coke	Residual Fuel Oil	Total	Retail Electricity ^f	Total ^g
1973 Total 1975 Total 1980 Total 1980 Total 1990 Total 1990 Total 1995 Total 1996 Total 1997 Total 1998 Total 1998 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2007 Total 2008 Total 2009 Total 2009 Total 2007 Total 2007 Total 2008 Total 2009 Total	15 14 11 13 12 11 12 12 9 9 9 8 10 9 6 7 8 7	141 136 141 132 142 164 171 174 165 173 164 170 173 170 163 154 171 169 168	47 43 38 46 39 35 35 32 31 32 36 37 32 36 33 29 28 28 29 29	5 4 3 2 1 1 2 2 2 2 2 2 2 2 1 1 1 2 1 (s) (s) (s) (s) (s) (s) (s)	9 8 6 6 6 7 8 8 7 7 9 9 9 9 9 10 10 8 8 8 10 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	6 6 8 7 8 1 2 3 3 2 3 3 3 4 4 3 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 3 4 3 3 3 3 4 3	NA N	52 39 44 18 18 11 9 7 6 6 9 10 9 6 6 6 6 5 4	120 100 98 79 73 56 57 54 50 51 58 57 52 60 58 55 47 46 47 46 45	334 333 412 480 556 620 643 686 724 735 783 797 795 815 841 835 861 849 784 804 768	609 583 662 704 793 851 883 926 947 960 1,022 1,027 1,026 1,037 1,053 1,069 1,043 1,075 1,075 1,007
Petron September Cotober November Total	1 (s) (s) (s) (s) (s) (s) (s) (s) (s)	24 21 14 11 8 7 7 7 8 12 17 21	4 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	5 4 4 3 3 3 3 3 3 3 3 4 40	57 53 52 51 60 66 76 73 63 61 59 59	87 79 70 65 71 76 86 84 74 87 75 79 84
2013 January February March April May June July August September October November December Total	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	26 23 21 13 9 7 7 7 8 11 19 26 178	4 4 3 2 2 1 1 1 1 2 2 2 2 5	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	5 R 4 4 3 2 2 2 3 3 2 3 4 4 39	59 54 58 53 59 67 74 73 65 61 58 63 744	91 83 84 71 77 83 84 76 75 80 92 R 965
2014 January February March April May June July August September October November 11-Month Total	(s) (s) (s) (s) (s) (s) (s) (s) (s) 4	31 27 23 R 14 R 10 8 7 7 8 11 20 165	2 3 2 1 2 1 1 1 2 2 2 2 20	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	1 1 1 1 1 1 1 1 1 1 1 1 8	(s) (s) (s) (s) (s) (s) (s) (s) (s) 2	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	4 4 4 2 3 2 2 2 2 3 3 3 3 3 3 2 2 2 3 3 3 3	66 59 59 52 59 66 72 73 64 59 57 686	101 90 86 68 71 87 82 83 75 87 80 887

a Metric tons of carbon dioxide can be converted to metric tons of carbon equivalent by multiplying by 12/44.

b Natural gas, excluding supplemental gaseous fuels.
c Distillate fuel oil, excluding biodiesel.
d Liquefied petroleum gases.

Notes: • Data are estimates for carbon dioxide emissions from energy consumption. See "Section 12 Methodology and Sources" at end of section.
• See "Carbon Dioxide" in Glossary. • See Note 1, "Emissions of Carbon Dioxide and Other Greenhouse Gases," at end of section. • Data exclude emissions from biomass energy consumption. See Table 12.7 and Note 2, "Accounting for Carbon Dioxide Emissions From Biomass Energy Combustion," 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/#environment (Excel and CSV files) for all available annual and monthly data beginning in 1973. Sources: See end of section.

Sources: See end of section.

Liquefied petroleum gases.
 Finished motor gasoline, excluding fuel ethanol.
 Emissions from energy consumption (for electricity and a small amount of useful thermal output) in the electric power sector are allocated to the end-use sectors in proportion to each sector's share of total electricity retail sales. See Tables 7.6 and 12.6.
 Excludes emissions from biomass energy consumption. See Table 12.7.
 R=Revised. NA=Not available. (s)=Less than 0.5 million metric tons.

Table 12.4 Carbon Dioxide Emissions From Energy Consumption: Industrial Sector

		Coal						Petroleun	n				D-4-II	
	Coal	Coke Net Imports	Natural Gas ^b	Distillate Fuel Oil ^C	Kero- sene	LPG ^d	Lubri- cants	Motor Gasoline ^e	Petroleum Coke	Residual Fuel Oil	Other ^f	Total	Retail Elec- tricity ^g	Total ^h
1973 Total 1975 Total 1975 Total 1980 Total 1985 Total 1995 Total 1995 Total 1996 Total 1997 Total 1998 Total 1998 Total 1999 Total 2000 Total 2001 Total 2002 Total 2003 Total 2005 Total 2006 Total 2007 Total 2008 Total 2009 Total 2009 Total 2009 Total 2009 Total 2009 Total 2009 Total	371 336 289 256 258 233 227 224 219 208 211 204 188 190 183 175 168 131 153	-1 2 -4 -4 -2 1 7 7 3 5 8 8 7 7 7 3 7 6 6 16 5 7 3 5 5 -3 -1 1	536 440 429 360 432 489 505 505 495 4475 448 440 448 432 437 405 404 414 412 386 421 431	106 97 96 81 84 82 86 88 88 86 87 95 88 85 87 91 91 98 78 84	11 9 13 3 1 1 1 1 1 2 2 1 1 (s) (s) (s)	44 39 61 59 37 48 50 47 47 52 45 47 41 44 42 43 33 32 33 33 35 34	7 6 7 7 7 7 6 6 6 6 6 6 6 6 6 5 5 5 5	18 16 11 15 13 14 14 15 14 11 11 21 22 23 26 25 26 21 17 16	52 51 48 54 67 71 70 80 85 76 79 79 78 85 82 85 82 85 86 86 66	144 117 105 57 31 25 24 21 16 14 17 14 13 16 18 20 16 13 13 13 8 6 6	100 97 142 93 127 121 139 145 128 133 118 135 130 142 144 143 152 150 132 112	483 431 483 369 366 364 391 396 382 383 369 396 386 392 413 413 422 408 376 325 338 338 338	515 490 601 583 638 659 678 694 706 667 654 672 672 672 662 642 550 587 574	1,904 1,697 1,798 1,566 1,695 1,751 1,803 1,824 1,778 1,781 1,683 1,678 1,678 1,661 1,602 1,398 1,487
2012 January February March April May June July August September October November December Total	12 12 12 12 12 11 11 12 11 12 12 12	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	41 38 38 36 36 35 36 37 36 37 38 40 447	9 10 8 8 8 8 6 5 6 7 9 9 7 93	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	5 4 4 3 3 3 3 3 4 4 5 45	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6 4 5 6 7 6 6 7 6 5 6 6 7	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	9 10 9 8 8 10 10 7 11 11 12 113	32 30 29 26 28 26 28 26 31 32 31 8	43 42 41 41 46 47 52 50 45 46 45 543	127 122 120 115 R 122 R 121 125 R 127 117 126 127 128
Pebruary February March April May June July August September October November December Total	12 12 12 12 12 12 12 12 12 R 12 12 12 145	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	41 38 40 37 37 36 37 36 38 40 43 462	10 7 7 7 7 6 6 6 7 11 9 9	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	655543334433344455 49	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	1 1 1 1 1 R2 1 R2 R2 R2 R2 R2 R2 R2 R2 R2 R2 R2 R2 R2	7 4 4 4 6 6 6 6 6 6 5 6 5 6 6 5 6 5	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	9 9 8 9 11 9 12 9 11 11 11	33 26 R 27 26 30 27 28 26 R 31 31 33 32 R 350	43 40 44 41 44 46 48 49 44 44 43 44 531	129 117 122 R 116 123 120 125 124 123 126 129 131
Pebruary February March April May June July August September October November 11-Month Total March Tot	12 12 12 12 12 12 12 12 11 12 11 12 11	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	R 44 R 40 R 42 R 39 R 38 R 37 R 38 39 41 436	13 10 10 10 9 8 8 7 8 R11 8	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	6 4 3 2 3 3 3 3 4 4 4 39	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	1 1 1 1 R2 1 R2 R2 R2 R2 1 1 R2	7 4 3 5 6 6 6 6 6 7 61	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	9 10 9 10 9 9 9 11 9 103	36 30 29 30 29 26 28 27 30 32 30	45 41 43 40 44 46 48 49 43 42 42 48	R 136 123 R 126 121 123 R 121 126 127 R 122 R 125 125 1,375
2013 11-Month Total 2012 11-Month Total	132 129	-2 (s)	419 407	83 86	(s) (s)	44 40	5 5	16 15	60 64	2 3	108 101	318 314	486 497	1,353 1,348

^a Metric tons of carbon dioxide can be converted to metric tons of carbon

R=Revised. (s)=Less than 0.5 million metric tons and greater than -0.5 million

metric tons.

Notes:

Data are estimates for carbon dioxide emissions from energy including the nonfuel use of fossil fuels. See "Section 12" Climates Notes: • Data are estimates for carbon dioxide emissions from energy consumption, including the nonfuel use of fossil fuels. See "Section 12 Methodology and Sources" at end of section. • See "Carbon Dioxide" in Glossary. • See Note 1, "Emissions of Carbon Dioxide and Other Greenhouse Gases," at end of section. • Data exclude emissions from biomass energy consumption. See Table 12.7 and Note 2, "Accounting for Carbon Dioxide Emissions From Biomass Energy Combustion," 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. and the District of Columbia.

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

<sup>a Metric tons of carbon dioxide can be converted to metric tons of carbon equivalent by multiplying by 12/44.
b Natural gas, excluding supplemental gaseous fuels.

c Distillate fuel oil, excluding biodiesel.
d Liquefied petroleum gases.
Finished motor gasoline, excluding fuel ethanol.
Aviation gasoline blending components, crude oil, motor gasoline blending components, pentanes plus, petrochemical feedstocks, special naphthas, still gas, unfinished oils, waxes, and miscellaneous petroleum products.
Emissions from energy consumption (for electricity and a small amount of useful thermal output) in the electric power sector are allocated to the end-use sectors in proportion to each sector's share of total electricity retail sales. See Tables 7.6 and 12.6.</sup> Tables 7.6 and 12.6.

h Excludes emissions from biomass energy consumption. See Table 12.7.

Table 12.5 Carbon Dioxide Emissions From Energy Consumption: Transportation Sector

						Petro	oleum					
	Coal	Natural Gas ^b	Aviation Gasoline	Distillate Fuel Oil ^c	Jet Fuel	LPG ^d	Lubri- cants	Motor Gasoline ^e	Residual Fuel Oil	Total	Retail Elec- tricity ^f	Total ^g
1973 Total 1975 Total 1980 Total 1985 Total 1990 Total 1990 Total 1990 Total 1997 Total 1998 Total 1998 Total 1998 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2005 Total 2006 Total 2007 Total 2008 Total 2009 Total 2011 Total 2011 Total	(h) (h) (h)	39 32 34 28 36 38 39 41 35 36 36 33 32 33 33 33 33 33 33 33 33 33 33 33	6543333322322222222222222222222222222222	163 155 204 232 268 307 341 352 365 377 387 394 408 433 444 467 469 424 405 426 437	152 145 155 178 223 232 234 235 245 254 243 237 231 246 246 248 226 209	3 3 1 2 1 1 1 1 1 1 1 1 1 1 2 2 2 1 3 2 2 2 2	6666766677766666555555	886 889 881 908 967 1,029 1,047 1,057 1,090 1,115 1,122 1,128 1,158 1,161 1,181 1,182 1,188 1,186 1,184 1,189 1,199 1,091 1,091	57 56 110 62 80 72 56 53 52 70 46 53 45 58 66 71 78 73 62 60	1,273 1,258 1,363 1,391 1,548 1,640 1,683 1,700 1,743 1,789 1,833 1,813 1,852 1,854 1,976 1,948 1,976 1,981 1,856 1,789 1,806 1,774	22233333334445555555554	1,315 1,292 1,400 1,421 1,588 1,681 1,725 1,744 1,782 1,828 1,873 1,852 1,892 1,959 1,986 2,014 2,021 1,898 1,838 1,849 1,849 1,818
Polyal January February March April May June July August September October November December Total	((h h) (h h h h h h h h h h h h h h	4 4 3 3 3 3 3 3 3 4 4 4 4	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	32 31 34 36 36 37 37 35 37 34 33	16 16 17 16 18 19 18 17 17 17	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	84 83 88 87 92 89 91 94 85 89 84 86	5 5 5 5 4 4 6 5 5 4 4 2 5 3	139 134 145 143 151 148 152 155 142 147 140 139 1,735	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	143 139 149 147 154 152 155 R 158 145 151 R 143 144 R 1,780
2013 January	(h) (h)	5 5 4 3 3 4 4 3 3 4 4 5 4 9	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	33 30 34 35 37 36 38 38 35 35 35 424	16 15 17 17 18 18 19 19 17 18 17	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	86 78 89 88 93 90 94 94 89 8 91 8 88 89 81	4 3 6 3 3 3 4 5 5 3 4 2 46	R 139 127 146 144 151 148 156 156 146 152 146 144 R 1,755	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	145 132 151 148 155 152 160 160 150 156 150 8 1,808
Petron July August September October November 11-Month Total	(h) (h) (h) (h) (h) (h) (h) (h) (h) (h)	6 5 5 4 3 3 4 4 4 4 4 4 4 5	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	34 32 36 36 38 37 39 39 36 39 35 400	17 15 18 17 17 19 19 18 18 18	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	84 80 89 89 92 R 89 R 94 95 87 94 88 983	2 2 2 3 3 3 3 2 3 4 4 4 31	138 130 146 147 151 149 156 156 145 145 1,618	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	144 135 151 151 155 153 160 160 149 R 159 150 1,667
2013 11-Month Total 2012 11-Month Total	(h)	43 37	1 2	389 383	193 188	2 2	4 4	978 965	44 51	1,612 1,596	4 4	1,659 1,636

R=Revised. (s)=Less than 0.5 million metric tons.

Notes: • Data are estimates for carbon dioxide emissions from energy consumption, including the nonfuel use of fossil fuels. See "Section 12 Methodology and Sources" at end of section. • See "Carbon Dioxide" in Glossary.

• See Note 1, "Emissions of Carbon Dioxide and Other Greenhouse Gases," at end of section. • Data exclude emissions from biomass energy consumption. See Table 12.7 and Note 2, "Accounting for Carbon Dioxide Emissions From Biomass Energy Combustion," 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.

and the District of Columbia.

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

Sources: See end of section.

a Metric tons of carbon dioxide can be converted to metric tons of carbon equivalent by multiplying by 12/44.

b Natural gas, excluding supplemental gaseous fuels.

c Distillate fuel oil, excluding biodiesel.

d Liquefied petroleum gases.

e Finished motor gasoline, excluding fuel ethanol.

f Emissions from energy consumption (for electricity and a small amount of useful thermal output) in the electric power sector are allocated to the end-use sectors in proportion to each sector's share of total electricity retail sales. See Tables 7.6 and 12.6.

g Excludes emissions from biomass energy consumption. See Table 12.7.

Second Section 12:0:
 Second Section 12:0:
 Second Section 12:0:
 Beginning in 1978, the small amounts of coal consumed for transportation are reported as industrial sector consumption.

Table 12.6 Carbon Dioxide Emissions From Energy Consumption: Electric Power Sector (Million Metric Tons of Carbon Dioxidea)

				Petrol	eum			Non	
	Coal	Natural Gas ^b	Distillate Fuel Oil ^c	Petroleum Coke	Residual Fuel Oil	Total	Geo- thermal	Non- Biomass Waste ^d	Total ^e
1973 Total	812	199	20	2	254	276	NA	NA	1,286
1975 Total	824	172	17	(s)	231	248	NA	NA	1,244
1980 Total	1,137	200	12	1	194	207	NA	NA	1,544
1985 Total	1,367	166	6	1	79	86	NA	NA	1,619
1990 Total	1,548	176	7	3	92	102	(s)	.6	1,831
1995 Total	1,661	228	8	8	45	61	(s)	10	1,960
1996 Total	1,752	205	8	8	50	66	(s)	10	2,033
1997 Total	1,797	219 248	8 10	10	56	75 105	(s)	10 10	2,101
1998 Total1999 Total	1,828 1,836	246 260	10	13 11	82 76	97	(s) (s)	10	2,192 2.204
2000 Total	1,927	281	13	10	69	91	(s)	10	2,310
2001 Total	1.870	290	12	11	79	102	\s\ \s\	11	2,273
2002 Total	1.890	306	9	18	52	79	(s)	13	2,288
2003 Total	1,931	278	12	18	69	98	(s)	11	2,319
2004 Total	1,943	297	8	22	69	99	(s)	11	2,350
2005 Total	1,984	319	8	24	69	101	(s)	11	2,416
2006 Total	1,954	338	5	21	28	55	(s)	12	2,358
2007 Total	1,987	372	6	17	31	54	(s)	11	2,425
2008 Total	1,959	362	5	15	19	39	(s)	12	2,373
2009 Total	1,741	373	5	13	14	33	(s)	11	2,158
2010 Total	1,828	399	6	14	12	32	(s)	11	2,270
2011 Total	1,723	409	5	14	7	26	(s)	11	2,170
2012 January	130	35	(s)	1	. 1	2	(s)	1	168
February	115	35	(s)	1	(s)	2	(s)	1	153
March	105	36	(s)	. 1	(s)	1	(s)	1	144
April	95	39	(s)	(s)	(s)	1	(s)	1	135
May	115	44	(s)	1	(s)	1	(s)	1	161
June	131	48	(s)	1	1	2	(s)	1	181
July	158	58	(s)	1	1	2	(s)	1	220
August	151	54	(s)	1	1	2	(s)	1	208
September	127	43 36	(s)	1	(s)	1	(s)	1	173
October	122 128	36 31	(s)	1	(s)	1 1	(s)	1	160 162
November December	134	32	(s) (s)	1	(s) (s)	1	(s) (s)	1	169
Total	1,511	493	4	9	6	19	(s)	11	2,034
	137	34	(s)	1	1	2	(s)	1	175
2013 January February	123	31	(s)	1	1	2	(s)	1	156
March	129	33	(s)	i	(s)	2	(s)	i	164
April	111	30	(s)	i	(s)	2	(s)	i	144
May	118	33	(s)	i	(s)	2	(s)	i	155
June	138	40	(s)	i	(s)	2	(s)	i	180
July	152	49	(s)	i	1	2	(s)	i	205
August	150	49	(s)	1	1	2	(s)	1	202
September	133	41	(s)	1	(s)	2	(s)	1	176
October	121	35	(s)	1	(s)	2	(s)	1	159
November	121	32	(s)	1	(s)	2	(s)	1	156
December	141	36	(s)	1	` 1	2	(s)	1	180
Total	1,575	442	4	13	6	23	(s)	11	2,052
2014 January	153	36	2	1	2	5	(s)	1	195
February	140	30	1	1	1	2	(s)	1	173
March	132	30	1	1	1	3	(s)	1	166
April	108	30	(s)	1	(s)	1	(s)	1	140
May	117	35	(s)	1	(s)	2	(s)	1	155
June	136	39	(s)	1	(s)	2	(s)	1	178
July	149	46	(s)	1	(s)	2	(s)	1	198
August	149	49	(s)	1	1	2	(s)	1	200
September	127	42	(s)	1	(s)	2	(s)	1	171
October	112	38	(s)	1	(s)	1	(s)	1	153
November	118	33	(s)	1	(s)	1	(s)	1	153
11-Month Total	1,441	406	6	11	7	23	(s)	10	1,882
2013 11-Month Total 2012 11-Month Total	1,434 1,377	406 460	3 3	12 8	6 6	21 17	(s) (s)	10 10	1,871 1,865

a Metric tons of carbon dioxide can be converted to metric tons of carbon equivalent by multiplying by 12/44.

b Natural gas, excluding supplemental gaseous fuels.
c Distillate fuel oil, excluding biodiesel.
d Municipal solid waste from non-biogenic sources, and tire-derived fuels.
e Excludes emissions from biomass energy consumption. See Table 12.7.
NA=Not available. (s)=Less than 0.5 million metric tons.
Notes:
 Data are estimates for carbon dioxide emissions from energy consumption. See "Section 12 Methodology and Sources" at end of section.

[•] See "Carbon Dioxide" in Glossary. • See Note 1, "Emissions of Carbon Dioxide and Other Greenhouse Gases," at end of section. • Data exclude emissions from biomass energy consumption. See Table 12.7 and Note 2, "Accounting for Carbon Dioxide Emissions From Biomass Energy Combustion," 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/#environment (Excel and CSV files) for all available annual and monthly data beginning in 1973. Sources: See end of section.

Table 12.7 Carbon Dioxide Emissions From Biomass Energy Consumption

			By Source					By S	ector		
	Woodb	Biomass Waste ^c	Fuel Ethanol ^d	Bio- diesel	Total	Resi- dential	Com- mercial ^e	Indus- trial ^f	Trans- portation	Electric Power ^g	Total
1973 Total	Wood ^b 143 140 232 252 208 222 209 222 205 208 212 188 187 188 199 200 197 196 193 181 186 189	(s) (s) (s) (s) 14 24 30 32 30 30 29 27 33 36 35 37 36 37 39 41 42 42	NA N	NA N	Total 143 141 232 270 237 260 266 259 242 245 248 231 235 240 255 261 266 276 290 287 303 312	33 40 80 95 54 49 51 40 36 37 39 35 36 38 38 38 40 47 41 41	mercial ^e 1 1 2 8 9 10 10 9 9 9 9 10 10 10 10 10 10 11	trial ^f 109 100 150 168 147 166 170 172 160 161 147 144 151 150 151 146 139 125 136	NA N	Power9 (s) (s) (s) 1 23 28 30 30 30 30 29 31 35 37 36 37 38 39 40 41 42 40	Total 143 141 232 270 237 260 266 259 242 245 248 231 235 240 255 240 256 276 276 290 287 303 312
Policy January February March April May June July August September October November December Total	16 15 16 15 16 16 16 16 16 16	3 3 4 3 3 4 4 4 4 4 4 4 4 4	666666766673	(s) 1 1 1 1 1 1 1 1 1 1 (s) 8	26 25 26 25 26 27 27 27 26 26 26 26 27	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1 1 1 1 1 1 1 1 1 1 1 1 1	12 11 12 11 12 11 12 12 12 12 12 12 12	6 6 7 7 7 7 7 7 6 6 7 6 8	4 3 3 3 3 3 4 4 4 3 3 3 4 4 4 4 4 4 4 4	26 25 26 25 26 26 27 27 26 26 26 26 27
2013 January February March April May June July August September October November December Total	17 15 17 16 16 17 18 17 16 17 18 201	4 3 4 4 4 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4	6 5 6 6 6 6 6 6 7 6 6 7	1 1 1 1 1 1 1 1 2 1 2 1 3	27 25 28 26 28 28 29 28 27 29 28 27 29 332	5 4 5 4 5 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5	1 1 1 1 1 1 1 1 1 1 1 1 1	12 11 R 12 11 11 11 12 12 11 11 11 12 137	6 6 7 7 7 7 7 7 8 8 8	4 3 4 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	27 25 28 26 28 29 28 27 29 28 27 29 332
Petron July August September October November 11-Month Total	17 16 17 16 17 17 18 18 18 17 17	4 3 4 3 3 3 4 4 4 3 4 4 3 9	6 6 6 7 6 7 6 7	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	28 25 28 27 28 29 29 29 28 307	5 4 5 4 5 5 4 5 4 5 4 5 4 5	1 1 1 1 1 1 1 1 1 1 1	11 10 11 11 11 11 12 12 11 11 12 11	7 7 7 7 8 7 8 8 7 8 7 8	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	28 25 28 27 28 28 29 29 28 29 28 307
2013 11-Month Total 2012 11-Month Total	183 172	39 38	68 67	12 8	302 286	50 36	10 9	125 129	79 74	39 38	302 286

Metric tons of carbon dioxide can be converted to metric tons of carbon equivalent by multiplying by 12/44.
 Wood and wood-derived fuels.

R=Revised. NA=Not available. (s)=Less than 0.5 million metric tons.

R=Revised. NA=Not available. (s)=Less than 0.5 million metric tons.
Notes: • Carbon dioxide emissions from biomass energy consumption are
excluded from the energy-related carbon dioxide emissions reported in Tables
12.1–12.6. See Note 2, "Accounting for Carbon Dioxide Emissions From Biomass
Energy Combustion," at end of section. • Data are estimates. See "Section 12
Methodology and Sources" at end of section. • See "Carbon Dioxide" in Glossary.
• See Note 1, "Emissions of Carbon Dioxide and Other Greenhouse Gases," 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/#environment
(Excel and CSV files) for all available annual and monthly data beginning in 1973.
Sources: See end of section.

Sources: See end of section.

Wood and wood-derived fuels.
 Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass.
 Fuel ethanol minus denaturant.
 Commercial sector, including commercial combined-heat-and-power (CHP) and commercial electricity-only plants.
 Industrial sector, including industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

industrial electricity-only 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.

Environment

Note 1. Emissions of Carbon Dioxide and Other Greenhouse Gases. Greenhouse gases are those gases—such as water vapor, carbon dioxide (CO₂), methane, nitrous oxide, hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride—that are transparent to solar (shortwave) radiation but opaque to long-wave (infrared) radiation, thus preventing long-wave radiant energy from leaving Earth's atmosphere. The net effect is a trapping of absorbed radiation and a tendency to warm the planet's surface.

Energy-related carbon dioxide emissions account for about 98 percent of U.S. CO₂ emissions. The vast majority of CO₂ emissions come from fossil fuel combustion, with smaller amounts from the nonfuel use of fossil fuels, as well as from electricity generation using geothermal energy and non-biomass waste. Other sources of CO₂ emissions include industrial processes, such as cement and limestone production. Data in the U.S. Energy Information Administration's (EIA) *Monthly Energy Review (MER)* Tables 12.1–12.6 are estimates for U.S. CO₂ emissions from energy consumption, including the nonfuel use of fossil fuels (excluded are estimates for CO₂ emissions from biomass energy consumption, which appear in Table 12.7).

For annual U.S. estimates for emissions of CO₂ from all sources, as well as for emissions of other greenhouse gases, see EIA's *Emissions of Greenhouse Gases Report* at http://www.eia.gov/environment/emissions/ghg report/.

Note 2. Accounting for Carbon Dioxide Emissions From Biomass Energy Combustion. Carbon dioxide (CO₂) emissions from the combustion of biomass to produce energy are excluded from the energy-related CO₂ emissions reported in MER Tables 12.1–12.6, but appear in Table 12.7. According to current international convention (see the Intergovernmental Panel on Climate Change's "2006 IPCC Guidelines for National Greenhouse Gas Inventories"), carbon released through biomass combustion is excluded from reported energy-related emissions. The release of carbon from biomass combustion is assumed to be balanced by the uptake of carbon when the feedstock is grown, resulting in zero net emissions over some period of time. (This is not to say that biomass energy is carbon-neutral. Energy inputs are required in order to grow, fertilize, and harvest the feedstock and to produce and process the biomass into fuels.)

However, analysts have debated whether increased use of biomass energy may result in a decline in terrestrial carbon stocks, leading to a net positive release of carbon rather than the zero net release assumed by its exclusion from reported energy-related emissions. For example, the clearing of forests for biofuel crops could result in an initial release of carbon that is not fully recaptured in subsequent use of the land for agriculture.

To reflect the potential net emissions, the international convention for greenhouse gas inventories is to report biomass emissions in the category "agriculture, forestry, and other land use," usually based on estimates of net changes in carbon stocks over time.

This indirect accounting of CO₂ emissions from biomass can potentially lead to confusion in accounting for and understanding the flow of CO₂ emissions within energy and nonenergy systems. In recognition of this issue, reporting of CO₂ emissions from biomass combustion alongside other energy-related CO₂ emissions offers an alternative accounting treatment. It is important, however, to avoid misinterpreting emissions from fossil energy and biomass energy sources as necessarily additive. Instead, the combined total of direct CO₂ emissions from biomass and energy-related CO₂ emissions implicitly assumes that none of the carbon emitted was previously or subsequently reabsorbed in terrestrial sinks or that other emissions sources offset any such sequestration.

Section 12 Methodology and Sources

To estimate carbon dioxide emissions from energy consumption for the *Monthly Energy Review (MER)*, Tables 12.1–12.7, the U.S. Energy Information Administration (EIA) uses the following methodology and sources:

Step 1. Determine Fuel Consumption

Coal—Coal sectoral (residential, commercial, coke plants, other industrial, transportation, electric power) consumption data in thousand short tons are from MER Table 6.2. Coal sectoral consumption data are converted to trillion Btu by multiplying by the coal heat content factors in MER Table A5

Coal Coke Net Imports—Coal coke net imports data in trillion Btu are derived from coal coke imports and exports data in MER Tables 1.4a and 1.4b.

Natural Gas (excluding supplemental gaseous fuels)—Natural gas sectoral consumption data in trillion Btu are from MER Tables 2.2–2.6.

Petroleum—Total and sectoral consumption (product supplied) data in thousand barrels per day for asphalt and road oil, aviation gasoline, distillate fuel oil, jet fuel, kerosene, liquefied petroleum gases (LPG), lubricants, motor gasoline, petroleum coke, and residual fuel oil are from MER Tables 3.5 and 3.7a-3.7c. For the component products of LPG (ethane/ethylene, propane/propylene, normal butane/butylene, and isobutane/isobutylene) and "other petroleum" (aviation gasoline blending components, crude oil, motor gasoline blending components, naphthas for petrochemical feedstock use, other oils for petrochemical feedstock use, pentanes plus, special naphthas, still gas, unfinished oils, waxes, and miscellaneous petroleum products), consumption (product supplied) data in thousand barrels per day are from EIA's Petroleum Supply Annual (PSA), Petroleum Supply Monthly (PSM), and earlier

publications (see sources for MER Table 3.5). Petroleum consumption data by product are converted to trillion Btu by multiplying by the petroleum heat content factors in MER Tables A1 and A3.

Biomass—Sectoral consumption data in trillion Btu for wood, biomass waste, fuel ethanol (minus denaturant), and biodiesel are from MER Tables 10.2a–10.2c.

Step 2. Remove Biofuels From Petroleum

Distillate Fuel Oil—Beginning in 2009, the distillate fuel oil data (for total and transportation sector) in Step 1 include biodiesel, a non-fossil renewable fuel. To remove the biodiesel portion from distillate fuel oil, data in thousand barrels per day for refinery and blender net inputs of renewable diesel fuel (from the PSA/PSM) are converted to trillion Btu by multiplying by the biodiesel heat content factor in MER Table A1, and then subtracted from the distillate fuel oil consumption values.

Motor Gasoline—Beginning in 1993, the motor gasoline data (for total, commercial sector, industrial sector, and transportation sector) in Step 1 include fuel ethanol, a nonfossil renewable fuel. To remove the fuel ethanol portion from motor gasoline, data in trillion Btu for fuel ethanol consumption (from MER Tables 10.2a, 10.2b, and 10.3) are subtracted from the motor gasoline consumption values. (Note that about 2 percent of fuel ethanol is fossilbased petroleum denaturant, to make the fuel ethanol For 1993-2008, petroleum denaturant is undrinkable. double counted in the PSA product supplied statistics, in both the original product category—e.g., pentanes plus—and also in the finished motor gasoline category; for this time period for MER Section 12, petroleum denaturant is removed along with the fuel ethanol from motor gasoline, but left in the original product. Beginning in 2009, petroleum denaturant is counted only in the PSA/PSM product supplied statistics for motor gasoline; for this time period for MER Section 12, petroleum denaturant is left in motor gasoline.)

Step 3. Remove Carbon Sequestered by Nonfuel Use

The following fuels have industrial nonfuel uses as chemical feedstocks and other products: coal, natural gas, asphalt and road oil, distillate fuel oil, liquefied petroleum gases (ethane/ethylene, propane/propylene, normal butane/butylene, and isobutane/isobutylene), lubricants (which have industrial and transportation nonfuel uses), naphthas for petrochemical feedstock use, other oils for petrochemical feedstock use, pentanes plus, petroleum coke, residual fuel oil, special naphthas, still gas, waxes, and miscellaneous petroleum products. In the nonfuel use of these fuels, some of the carbon is sequestered, and is thus subtracted from the fuel consumption values in Steps 1 and 2.

Estimates of annual nonfuel use and associated carbon sequestration are developed by EIA using the methodology detailed in "Documentation for *Emissions of Greenhouse Gases in the United States* 2008" at http://www.eia.gov/oiaf/1605/ggrpt/documentation/pdf/0638(2008).pdf.

To obtain monthly estimates of nonfuel use and associated carbon sequestration, monthly patterns for industrial consumption and product supplied data series are used. For coal nonfuel use, the monthly pattern for coke plants coal consumption from MER Table 6.2 is used. For natural gas, the monthly pattern for other industrial non-CHP natural gas consumption from MER Table 4.3 is used. For distillate fuel oil, petroleum coke, and residual fuel oil, the monthly patterns for industrial consumption from MER Table 3.7b are used. For the other petroleum products, the monthly patterns for product supplied from the PSA and PSM are used.

Step 4. Determine Carbon Dioxide Emissions From Energy Consumption

Carbon dioxide (CO₂) emissions data in million metric tons are calculated by multiplying consumption values in trillion Btu from Steps 1 and 2 (minus the carbon sequestered in nonfuel use in Step 3) by the CO₂ emissions factors at http://www.eia.gov/oiaf/1605/ggrpt/excel/CO2_coeffs_09_v2.xls. Beginning in 2010, the 2009 factors are used.

Coal—CO₂ emissions for coal are calculated for each sector (residential, commercial, coke plants, other industrial, transportation, electric power). Total coal emissions are the sum of the sectoral coal emissions.

Coal Coke Net Imports—CO₂ emissions for coal coke net imports are calculated.

Natural Gas—CO₂ emissions for natural gas are calculated for each sector (residential, commercial, industrial, transportation, electric power). Total natural gas emissions are the sum of the sectoral natural gas emissions.

Petroleum—CO₂ emissions are calculated for each petroleum product. Total petroleum emissions are the sum of the product emissions. Total LPG emissions are the sum of the emissions for the component products (ethane/ethylene, propane/propylene, normal butane/butylene, and isobutane/isobutylene); residential, commercial, and transportation sector LPG emissions are estimated by multiplying consumption values in trillion Btu from MER Tables 3.8a and 3.8c by the propane emissions factor; industrial sector LPG emissions are estimated as total LPG emissions minus emissions by the other sectors.

Geothermal and Non-Biomass Waste—Annual CO₂ emissions data for geothermal and non-biomass waste are EIA estimates based on Form EIA-923, "Power Plant Operations Report" (and predecessor forms). Monthly estimates are created by dividing the annual data by the number of days in the year and then multiplying by the number of days in the month. (Annual estimates for the current year are set equal to those of the previous year.)

Biomass—CO₂ emissions for wood, biomass waste, fuel ethanol (minus denaturant), and biodiesel are calculated for each sector. Total emissions for each biomass fuel are the sum of the sectoral emissions. The following factors, in million metric tons CO₂ per quadrillion Btu, are used: wood—93.80; biomass waste—90.70; fuel ethanol—68.44; and biodiesel—73.84. For 1973–1988, the biomass portion

of waste in MER Tables 10.2a–10.2c is estimated as 67 percent; for 1989–2000, the biomass portion of waste is estimated as 67 percent in 1989 to 58 percent in 2000, based on the biogenic shares of total municipal solid waste shown in EIA's "Methodolology for Allocating Municipal Solid Waste to Biogenic and Non-Biogenic Energy," Table 1 at http://www.eia.gov/totalenergy/data/monthly/pdf/historical/msw.pdf.

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Appendix A

British Thermal Unit Conversion Factors

The thermal conversion factors presented in the following tables can be used to estimate the heat content in British thermal units (Btu) of a given amount of energy measured in physical units, such as barrels or cubic feet. For example, 10 barrels of asphalt has a heat content of approximately 66.36 million Btu (10 barrels x 6.636 million Btu per barrel = 66.36 million Btu).

The heat content rates (i.e., thermal conversion factors) provided in this section represent the gross (or higher or upper) energy content of the fuels. Gross heat content rates are applied in all Btu calculations for the *Monthly Energy Review* and are commonly used in energy calculations in the United States; net (or lower) heat content rates are typically used in European energy calculations. The difference between the two rates is the amount of energy that is consumed to vaporize water that is created during the

combustion process. Generally, the difference ranges from 2 percent to 10 percent, depending on the specific fuel and its hydrogen content. Some fuels, such as unseasoned wood, can be more than 40 percent different in their gross and net heat content rates. See "Heat Content" and "British Thermal Unit (Btu)" in the Glossary for more information.

In general, the annual thermal conversion factors presented in Tables A2 through A6 are computed from final annual data or from the best available data and labeled "preliminary." Often, the current year's factors are labeled "estimate," and are set equal to the previous year's values until data become available to calculate the factors. The source of each factor is described in the section entitled "Thermal Conversion Factor Source Documentation," which follows Table A6 in this appendix.

Table A1. Approximate Heat Content of Petroleum and Other Liquids (Million Btu per Barrel, Except as Noted)

Commodity	Heat Content	Commodity	Heat Content
Asphalt and Road Oil	6.636	Motor Gasoline Blending Components (MGBC)	
Aviation Gasoline (Finished)	5.048	Through 2006	5.253
Aviation Gasoline Blending Components	5.048	Beginning in 2007	5.222
Biodiesel	5.359	Oxygenates (excluding Fuel Ethanol)	4.247
Crude Oil-see Table A2		Petrochemical Feedstocks	
Distillate Fuel Oil–see Table A3 for averages		Naphtha Less Than 401 °F	5.248
15 ppm sulfur and under	5.770	Other Oils Equal to or Greater Than 401 °F	5.825
Greater than 15 ppm to 500 ppm sulfur	5.817	Petroleum Coke–see Table A3 for averages	
Greater than 500 ppm sulfur	5.825	Total, through 2003	6.024
Fuel Ethanol–see Table A3		Catalyst, beginning in 2004	^a 6.287
Hydrocarbon Gas Liquids		Marketable, beginning in 2004	5.719
Ethane/Ethylene	3.082	Plant Condensate	5.418
Propane/Propylene	3.836	Renewable Fuels Except Fuel Ethanol	⁶ 5.359
Normal Butane/Butylene	4.326	Residual Fuel Oil	6.287
Isobutane/Isobutylene	3.974	Special Naphthas	5.248
Natural Gasoline (Pentanes Plus)	4.620	Still Gas	°6.000
Hydrogen	a6.287	Unfinished Oils	5.825
Jet Fuel, Kerosene Type	5.670	Unfractionated Stream	5.418
Jet Fuel, Naphtha Type	5.355	Waxes	5.537
Kerosene	5.670	Miscellaneous Products	5.796
Lubricants	6.065	Other Hydrocarbons	5.825
Motor Gasoline (Finished)–see Tables A2/A3			

^a Per residual fuel oil equivalent barrel (6.287 million Btu per barrel).

Note: The values in this table are for gross heat contents. See "Heat Content" in Glossary.

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

Sources: See "Thermal Conversion Factor Source Documentation," which follows Table A6.

^b The biodiesel heat content factor, 5.359 million Btu per barrel, is used for "Biomass-Based Diesel Fuel" and "Other Renewable Fuels"; however, a factor of 5.494 million Btu per barrel is used for "Other Renewable Diesel Fuel."

^c Per fuel oil equivalent barrel (6.000 million Btu per barrel).

Table A2. Approximate Heat Content of Petroleum Production, Imports, and Exports (Million Btu per Barrel)

				Imp	orts			Exp	orts	
	Pro	duction		Petroleum	Products			Petroleum	Products	
	Crude Oil ^a	Natural Gas Plant Liquids	Crude Oil ^a	Motor Gasoline ^b	Total Products	Total	Crude Oil ^a	Motor Gasoline ^c	Total Products	Total
1950	5.800	4.522	5.943	5.253	6.263	6.080	5.800	5.253	5.751	5.766
1955	5.800	4.406	5.924	5.253	6.234	6.040	5.800	5.253	5.765	5.768
1960	5.800	4.295	5.911	5.253	6.161	6.021	5.800	5.253	5.835	5.834
1965	5.800	4.264	5.872	5.253	6.123	5.997	5.800	5.253	5.742	5.743
1970	5.800	4.146	5.822	5.253	6.088	5.985	5.800	5.253	5.811	5.810
1975	5.800	3.984	5.821	5.253	5.935	5.858	5.800	5.253	5.747	5.748
1980	5.800	3.914	5.812	5.253	5.748	5.796	5.800	5.253	5.841	5.820
1981	5.800	3.930	5.818	5.253	5.659	5.775	5.800	5.253	5.837	5.821
1982	5.800	3.872	5.826	5.253	5.664	5.775	5.800	5.253	5.829	5.820
1983	5.800	3.839	5.825	5.253	5.677	5.774	5.800	5.253	5.800	5.800
1984			5.823					5.253		5.850
	5.800	3.812		5.253	5.613	5.745	5.800		5.867	
1985	5.800	3.815	5.832	5.253	5.572	5.736	5.800	5.253	5.819	5.814
1986	5.800	3.797	5.903	5.253	5.624	5.808	5.800	5.253	5.839	5.832
1987	5.800	3.804	5.901	5.253	5.599	5.820	5.800	5.253	5.860	5.858
1988	5.800	3.800	5.900	5.253	5.618	5.820	5.800	5.253	5.842	5.840
1989	5.800	3.826	5.906	5.253	5.641	5.833	5.800	5.253	5.869	5.857
1990	5.800	3.822	5.934	5.253	5.614	5.849	5.800	5.253	5.838	5.833
1991	5.800	3.807	5.948	5.253	5.636	5.873	5.800	5.253	5.827	5.823
1992	5.800	3.804	5.953	5.253	5.623	5.877	5.800	5.253	5.774	5.777
1993	5.800	3.801	5.954	5.253	5.539	5.866	5.800	5.253	5.681	5.693
1994	5.800	3.794	5.950	5.253	5.416	5.835	5.800	5.253	5.693	5.704
1995	5.800	3.796	5.938	5.253	5.345	5.830	5.800	5.253	5.692	5.703
1996	5.800	3.777	5.947	5.253	5.373	5.828	5.800	5.253	5.663	5.678
1997	5.800	3.762	5.954	5.253	5.333	5.836	5.800	5.253	5.663	5.678
1998	5.800	3.769	5.953	5.253	5.314	5.833	5.800	5.253	5.505	5.539
1999	5.800	3.744	5.942	5.253	5.291	5.815	5.800	5.253	5.530	5.564
2000	5.800	3.733	5.959	5.253	5.309	5.823	5.800	5.253	5.529	5.542
2001	5.800	3.735	5.976	5.253	5.330	5.838	5.800	5.253	5.637	5.641
2002	5.800	3.729	5.971	5.253	5.362	5.845	5.800	5.253	5.517	5.519
2003	5.800	3.739	5.970	5.253	5.381	5.845	5.800	5.253	5.628	5.630
2004	5.800	3.724	5.981	5.253	5.429	5.853	5.800	5.253	5.532	5.539
2005	5.800	3.724	5.977	5.253	5.436	5.835	5.800	5.253	5.504	5.513
2006	5.800	3.712	5.980	5.253	5.431	5.836	5.800	5.219	5.415	5.423
2007	5.800	3.701	5.985	5.222	5.483	5.857	5.800	5.188	5.465	5.471
2008	5.800	3.706	5.990	5.222	5.459	5.861	5.800	5.215	5.587	5.591
2009	5.800	3.692	5.988	5.222	5.509	5.878	5.800	5.221	5.674	5.677
2010	5.800	3.674	5.989	5.222	5.545	5.892	5.800	5.214	5.601	5.604
2011	5.800	3.672	6.008	5.222	5.538	5.905	5.800	5.216	5.526	5.530
2012	5.800	3.683	6.165	5.222	5.501	6.035	5.800	5.217	5.520	5.526
2013 ^P	5.800	3.714	6.010	5.222	5.497	5.899	5.800	5.216	5.470	5.482
2014 ^E	5.800	3.714	6.010	5.222	5.497	5.899	5.800	5.216	5.470	5.482
2017	0.000	J., 17	0.010	J.222	0.701	3.000	3.000	3.210	0.770	0.702

Note: The values in this table are for gross heat contents. See "Heat Content" in Glossary.

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

Sources: See "Thermal Conversion Factor Source Documentation," which follows Table A6.

b Excludes fuel ethanol, methyl tertiary butyl ether (MTBE), and other oxygenates blended into motor gasoline.

c Through 2005, excludes fuel ethanol, MTBE, and other oxygenates blended into motor gasoline. Beginning in 2006, includes MTBE, but excludes fuel ethanol and other oxygenates blended into motor gasoline.

P=Preliminary. E=Estimate.

Table A3. Approximate Heat Content of Petroleum Consumption and Fuel Ethanol

(Million Btu per Barrel)

		Total Pet	roleum ^a Co	nsumption	by Sector		Distillate	Liquefied Petroleum	Motor Gasoline	Petroleum		Fuel Ethanol
	Resi- dential	Com- mercial ^b	Indus- trial ^b	Trans- porta- tion ^{b,c}	Electric Power ^{d,e}	Total ^{b,c}	Fuel Oil Consump- tion ^f	Gases Consump- tion ⁹	(Finished) Consump- tion ^h	Coke Consump- tion ⁱ	Fuel Ethanol	Feed- stock Factor ^k
1950	5.473	5.817	5.953	5.461	6.254	5.649	5.825	4.011	5.253	6.024	NA	NA
1955	5.469	5.781	5.881	5.407	6.254	5.591	5.825	4.011	5.253	6.024	NA NA	NA
1960	5.417	5.781	5.818	5.387	6.267	5.555	5.825	4.011	5.253	6.024	NA NA	NA
1965	5.364	5.760	5.748	5.386	6.267	5.532	5.825	4.011	5.253	6.024	NA NA	NA
1970	5.260	5.708	5.595	5.393	6.252	5.503	5.825	93.779	5.253	6.024	NA NA	NA
1975	5.253	5.649	5.513	5.392	6.250	5.494	5.825	3.715	5.253	6.024	NA NA	NA
1980	5.321	5.751	5.366	5.441	6.254	5.479	5.825	3.674	5.253	6.024	3.563	6.586
1981	5.283	5.693	5.299	5.433	6.258	5.448	5.825	3.643	5.253	6.024	3.563	6.562
1982	5.266	5.698	5.247	5.423	6.258	5.446	5.825	3.615	5.253	6.024	3.563	6.539
1983	5.200	5.591	5.254	5.425	6.255	5.406	5.825	3.614	5.253	6.024	3.563	6.515
1984	5.307	5.657	5.207	5.418	6.251	5.395	5.825	3.599	5.253	6.024	3.563	6.492
1985	5.263	5.598	5.199	5.423	6.247	5.387	5.825	3.603	5.253	6.024	3.563	6.469
1986	5.268	5.632	5.269	5.426	6.257	5.418	5.825	3.640	5.253	6.024	3.563	6.446
1987	5.239	5.594	5.233	5.429	6.249	5.403	5.825	3.659	5.253	6.024	3.563	6.423
1988	5.257	5.597	5.228	5.433	6.250	5.410	5.825	3.652	5.253	6.024	3.563	6.400
1989	5.237	5.549	5.219	5.438	d 6.240	5.410	5.825	3.683	5.253	6.024	3.563	6.377
1990	5.194	5.553	5.253	5.442	6.244	5.411	5.825	3.625	5.253	6.024	3.563	6.355
1991	5.094	5.528	5.253	5.441	6.244	5.384	5.825	3.614	5.253	6.024	3.563	6.332
1992	5.094		5.167	5.443		5.378	5.825			6.024		6.309
1993	5.124	5.513 ^b 5.504	^b 5.177	^b 5.422	6.238 6.230	^b 5.370	5.825	3.624	5.253 ^h 5.232	6.024	3.563 3.563	6.287
1994	5.102	5.512	5.177	5.424	6.213	5.360	f 5.820	3.606 3.635	5.232	6.024	3.563	6.264
1995	5.060	5.475	5.149	5.424	6.187	5.342	5.820	3.623	5.231	6.024	3.563	6.242
1996	4.995	5.430	5.121	5.420	6.194	5.342	5.820	3.613		6.024	3.563	6.220
									5.218			
1997 1998	4.986 4.972	5.388 5.362	5.119 5.136	5.416 5.414	6.198 6.210	5.336 5.349	5.820 5.819	3.616 3.614	5.215 5.215	6.024 6.024	3.563 3.563	6.198 6.176
1999		5.288			6.204	5.328						
2000	4.899 4.905	5.200	5.091	5.413 5.423	6.204	5.326	5.819	3.616 3.607	5.213	6.024	3.563 3.563	6.167 6.159
			5.056				5.819		5.214	6.024		
2001	4.934	5.322 5.290	5.141	5.413	6.199	5.346 5.324	5.819	3.614	5.214	6.024	3.563	6.151
	4.883		5.092	5.411	6.172		5.819	3.613	5.211	6.024	3.563	6.143
2003	4.918	5.312	5.143	5.404	6.182	5.338	5.819	3.629	5.203	6.024	3.563	6.116 6.089
2004	4.949	5.323	5.144	5.410	6.134	5.341	5.818	3.618	5.201	¹ 5.982	3.563	
2005	4.913	5.359	5.179	5.412	6.126	5.353	5.818	3.620	5.198	5.982	3.563	6.063
2006	4.883	5.296	5.159	5.409	6.038	5.336	5.803	3.605	5.191	5.987	3.563	6.036
2007	4.831	5.271	5.122	5.385	6.064	5.309	5.785	3.591	5.155	5.996	3.563	6.009
2008	4.769	5.156	5.147	5.355	6.013	5.287	5.780	3.600	5.126	5.992	3.563	5.983
2009	4.661	5.216	5.014	c 5.328	5.987	^c 5.236	5.781	3.558	5.101	6.017	3.563	5.957
2010	4.660	5.193	4.983	5.321	5.956	5.222	5.778	3.557	5.078	6.059	3.561	5.931
2011	4.640	5.163	4.962 4.909	5.317	5.900	5.212 5.191	5.776	3.541 3.534	5.068	6.077	3.560	5.905 5.880
2012	4.703 E 4.675	5.117 ^E 5.060	4.909 E 4.864	5.305 ^E 5.301	5.925 P 5.895		5.774		5.063	6.084	3.560	
2013	E 4.675	E 5.060	E 4.864	E 5.301	E 5.895	5.174 ^E 5.174	5.774 E 5.774	3.556 E 3.556	5.062 ^E 5.062	6.089 E 6.089	3.559 E 3.559	5.880
2014	4.075	0.000	4.004	5.301	5.095	5.174	5.774	3.330	5.06∠	6.009	3.559	5.880

a Petroleum products supplied, including natural gas plant liquids and crude oil burned directly as fuel. Quantity-weighted averages of the petroleum products included in each category are calculated by using heat content values for individual products shown in Tables A1 and A3.

b Beginning in 1993, includes fuel ethanol blended into motor gasoline.

There is a discontinuity in this time series between 2003 and 2004; beginning in 2004, the single constant factor is replaced by a quantity-weighted factor. Quantity-weighted averages of the two categories of petroleum coke are calculated by using heat content values shown in Table A1

P=Preliminary. E=Estimate. NA=Not available.

Note: The heat content values in this table are for gross heat contents. See "Heat Content" in Glossary

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

Sources: See "Thermal Conversion Factor Source Documentation," which follows Table A6.

Beginning in 2009, includes renewable diesel fuel (including biodiesel) blended into distillate fuel oil.

d 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.

e Electric power sector factors are weighted average heat contents for distillate fuel oil, petroleum coke, and residual fuel oil; they exclude other liquids.

f There is a discontinuity in this time series between 1993 and 1994; beginning in 1994, the single constant factor is replaced by a quantity-weighted factor.

There is a discontinuity in this time series between 1993 and 1994; beginning in 1994, the single constant factor is replaced by a quantity-weighted factor. Quantity-weighted averages of the sulfur-content categories of distillate fuel oil are calculated by using heat content values shown in Table A1. Excludes renewable diesel fuel (including biodiesel) blended into distillate fuel oil.

There is a discontinuity in this time series between 1966 and 1967; beginning in 1967, the single constant factor is replaced by a quantity-weighted factor.

Quantity-weighted averages of the major components of liquefied petroleum gases are calculated by using heat content values shown in Table A1.

h Through 1992, excludes oxygenates. Beginning in 1993, includes fuel ethanol blended into motor gasoline; and for 1993–2006, also includes methyl tertiary butyl ether (MTBE) and other oxygenates blended into motor gasoline.

j Includes denaturant (petroleum added to ethanol to make it undrinkable). Fuel ethanol factors are weighted average heat contents for undenatured ethanol (3.539 million Btu per barrel) and products used as denaturant (pentanes plus, finished motor gasoline, and motor gasoline blending components—see Tables A1 and A3 for factors). The factor for 2009 is used as the estimated factor for 1980–2008.

k Corn input to the production of undenatured ethanol (million Btu corn per barrel undenatured ethanol), used as the factor to estimate total biomass inputs to the production of undenatured ethanol. Observed ethanol yields (gallons undenatured ethanol per bushel of corn) are 2.5 in 1980, 2.666 in 1998, 2.68 in 2002, and 2.764 in 2009; yields in other years are estimated. Corn is assumed to have a gross heat content of 0.392 million Btu per bushel. Undenatured ethanol is assumed to have a gross heat content of 3.539 million Btu per barrel.

Table A4. Approximate Heat Content of Natural Gas

(Btu per Cubic Foot)

	Production			Consumption ^a			
	Marketed	Dry	End-Use Sectors ^b	Electric Power Sector ^c	Total	Imports	Exports
1950	1.119	1,035	1,035	1.035	1.035		1,035
955	1,120	1,035	1,035	1.035	1,035	1.035	1,035
960	1,107	1,035	1,035	1,035	1,035	1.035	1,035
965	1,101	1,032	1,032	1,032	1,032	1,032	1,032
970	1,102	1,031	1,031	1,031	1,031	1,031	1,031
975	1,095	1,021	1,020	1,026	1,021	1,026	1,014
980	1,098	1,026	1,024	1,035	1,026	1,022	1,013
981	1,103	1,027	1,025	1,035	1,027	1,014	1,011
982	1,107	1.028	1.026	1.036	1.028	1.018	1.011
983	1,115	1,031	1,031	1,030	1,031	1,024	1,010
984	1,109	1,031	1,030	1,035	1,031	1,005	1,010
985	1,112	1,032	1,031	1,038	1,032	1,002	1,011
986	1,110	1,030	1,029	1,034	1,030	997	1,008
987	1,112	1,031	1,031	1,032	1,031	999	1,011
988	1,109	1,029	1,029	1.028	1,029	1,002	1,018
989	1,107	1,031	1,031	° 1,028	1,031	1,004	1,019
990	1,105	1.029	1,030	1.027	1,029	1,012	1,018
991	1.108	1.030	1,031	1.025	1,030	1.014	1.022
992	1,110	1,030	1,031	1,025	1,030	1,011	1,018
993	1,106	1.027	1.028	1.025	1.027	1.020	1,016
994	1,105	1,028	1,029	1,025	1,028	1,022	1,011
995	1,106	1,026	1,027	1,021	1,026	1,021	1,011
996	1,109	1,026	1,027	1,020	1,026	1,022	1,011
997	1,107	1,026	1,027	1,020	1,026	1,023	1,011
998	1,109	1,031	1,033	1,024	1,031	1,023	1,011
999	1,107	1.027	1.028	1.022	1.027	1.022	1.006
000	1,107	1.025	1,026	1.021	1.025	1.023	1,006
001	1,105	1,028	1,029	1,026	1,028	1,023	1,010
002	1,103	1.024	1,025	1,020	1,024	1.022	1,008
003	1,103	1,028	1,029	1,020	1,028	1,025	1,008
004	1,104	1,026	1,029	1,025	1,026	1,025	1,009
005	1,104	1,028	1,028	1,027	1,028	1,025	1,009
006	1,103	1,028	1,028	1,028	1,028	1,025	1,009
007	1,103	1,026	1,026	1,026	1,026	1,025	1,009
	1,102	1,027	1,027	1,027	1,027	1,025	1,009
008 009		1,027	1,027	1,027	1,027	1,025	1,009
010	1,101 1.098	1,025	1,025	1,025	1,025	1,025	1,009
	,	1,023	1,023	, -	1,023	,	1,009
011	1,142			1,021	1,022	1,025	
012	1,091	1,024	1,025	1,022		1,025	1,009
013	1,100	1,027	1,028	P 1,025	P 1,027	1,025	1,009
2014	E 1,100	E 1,027	E 1,028	E 1,025	E 1,027	E 1,025	E 1,009

a Consumption factors are for natural gas, plus a small amount of supplemental gaseous fuels.
 b Residential, commercial, industrial, and transportation sectors.

b Residential, commercial, industrial, and transportation sectors.
c Electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only; beginning in 1989, data are for electric utilities and independent power producers.
P=Preliminary. E=Estimate. ——=Not applicable.
Note: The values in this table are for gross heat contents. See "Heat Content" in Glossary.
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#appendices (Excel and CSV files) for all available annual data beginning in 1949.
Sources: See "Thermal Conversion Factor Source Documentation," which follows Table A6.

Table A5. Approximate Heat Content of Coal and Coal Coke

(Million Btu per Short Ton)

					Coal					Coal Coke
				С	onsumption					
		Waste	Residential and	Industrial	Sector	Electric				Imports
	Production ^a	Coal Supplied ^b	Commercial Sectors ^c	Coke Plants	Otherd	Power Sector ^{e,f}	Total	Imports	Exports	and Exports
1950	. 25.090	NA	24.461	26.798	24.820	23.937	24.989	25.020	26.788	24.800
1955		NA	24.373	26.794	24.821	24.056	24.982	25.000	26.907	24.800
1960		NA	24.226	26.791	24.609	23.927	24.713	25.003	26.939	24.800
1965		NA	24.028	26.787	24.385	23.780	24.537	25.000	26.973	24.800
1970		NA	23.203	26.784	22.983	22.573	23.440	25.000	26.982	24.800
1975		NA	22.261	26.782	22.436	21.642	22.506	25.000	26.562	24.800
1980		NA NA	22.543	26.790	22.690	21.295	21.947	25.000	26.384	24.800
1981		NA	22.474	26.794	22.585	21.085	21.713	25.000	26.160	24.800
1982		NA NA	22.695	26.797	22.712	21.194	21.674	25.000	26.223	24.800
1983		NA NA	22.775	26.798	22.691	21.133	21.576	25.000	26.223	24.800
1984		NA	22.844	26.799	22.543	21.101	21.573	25.000	26.402	24.800
1985		NA	22.646	26.798	22.020	20.959	21.366	25.000	26.307	24.800
1986		NA NA	22.947	26.798	22.198	21.084	21.462	25.000	26.292	24.800
1987		NA NA	23.404	26.799	22.381	21.136	21.517	25.000	26.292	24.800
1988		NA NA	23.571	26.799	22.360	20.900	21.317	25.000	26.299	24.800
1989		^b 10.391	23.650	26.800	22.347	e 20.898	21.326	25.000	26.299	24.800
1990		9.303	23.137	26.799	22.457	20.779	21.197	25.000	26.202	24.800
		10.758	23.114	26.799	22.460	20.779	21.197	25.000	26.202	24.800
1991 1992		10.756			22.460					24.800
			23.105	26.799		20.709	21.068	25.000	26.161	
1993		10.638	22.994	26.800	22.123	20.677	21.010	25.000	26.335	24.800
		11.097	23.112	26.800	22.068	20.589	20.929	25.000	26.329	24.800
1995		11.722	23.118	26.800	21.950	20.543	20.880	25.000	26.180	24.800
1996		12.147	23.011	26.800	22.105	20.547	20.870	25.000	26.174	24.800
1997		12.158	22.494	26.800	22.172	20.518	20.830	25.000	26.251	24.800
1998		12.639	21.620	27.426	23.164	20.516	20.881	25.000	26.800	24.800
1999		12.552	23.880	27.426	22.489	20.490	20.818	25.000	26.081	24.800
2000		12.360	25.020	27.426	22.433	20.511	20.828	25.000	26.117	24.800
2001		12.169	24.909	27.426	22.622	20.337	20.671	25.000	25.998	24.800
2002		12.165	22.962	27.426	22.562	20.238	20.541	25.000	26.062	24.800
2003		12.360	22.242	27.425	22.468	20.082	20.387	25.000	25.972	24.800
2004		12.266	22.324	27.426	22.473	19.980	20.290	25.000	26.108	24.800
2005		12.093	22.342	26.279	22.178	19.988	20.246	25.000	25.494	24.800
2006		12.080	22.066	26.271	22.050	19.931	20.181	25.000	25.453	24.800
2007		12.090	22.069	26.329	22.371	19.909	20.168	25.000	25.466	24.800
2008	. 20.208	12.121	° 23.035	26.281	22.304	19.713	19.979	25.000	25.399	24.800
2009		12.076	22.852	26.334	21.823	19.521	19.741	25.000	25.633	24.800
2010		11.960	22.611	26.295	21.846	19.623	19.870	25.000	25.713	24.800
2011		11.604	22.099	26.299	21.568	19.341	19.600	25.000	25.645	24.800
2012		11.539	21.300	28.636	21.449	19.211	19.544	23.128	24.551	24.800
2013 ^P		12.428	21.233	28.705	21.623	19.210	19.548	23.367	24.604	24.800
2014 ^E	. 20.187	12.428	21.233	28.705	21.623	19.210	19.548	23.367	24.604	24.800

a Beginning in 2001, includes a small amount of refuse recovery (coal recaptured from a refuse mine, and cleaned to reduce the concentration of noncombustible

P=Preliminary. E=Estimate. NA=Not available.

Note: The values in this table are for gross heat contents. See "Heat Content" in Glossary.

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

Sources: See "Thermal Conversion Factor Source Documentation," which follows Table A6.

b Waste coal (including fine coal, coal obtained from a refuse bank or slurry dam, anthracite culm, bituminous gob, and lignite waste) consumed by the electric power and industrial sectors. Beginning in 1989, waste coal supplied is counted as a supply-side item to balance the same amount of waste coal included in "Consumption."

Through 2007, used as the thermal conversion factor for coal consumption by the residential and commercial sectors. Beginning in 2008, used as the thermal

conversion factor for coal consumption by the commercial sector only.

^d Includes transportation. Excludes coal synfuel plants.

^e 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.

f Electric power sector factors are for anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and, beginning in 1998, coal synfuel.

Table A6. Approximate Heat Rates for Electricity, and Heat Content of Electricity

(Btu per Kilowatthour)

		Approx	imate Heat Rates	a for Electricity Net Ge	eneration		
		Fossil	Fuels ^b			Noncombustible	
	Coal ^c	Petroleum ^d	Natural Gas ^e	Total Fossil Fuels ^{f,g}	N uclear ^h	Renewable Energy ^{g,i}	Heat Content ^j of Electricity ^k
1050	NIA	NA	NIA	44.020		14.020	2.442
1950	NA	NA NA	NA NA	14,030		14,030	3,412
1955	NA	NA	NA	11,699		11,699	3,412
1960	NA	NA	NA	10,760	11,629	10,760	3,412
1965	NA	NA	NA	10,453	11,804	10,453	3,412
1970	NA	NA	NA	10,494	10,977	10,494	3,412
1975	NA	NA	NA	10,406	11,013	10,406	3,412
1980	NA	NA	NA	10,388	10,908	10,388	3,412
1981	NA	NA	NA	10,453	11,030	10,453	3,412
1982	NA	NA	NA	10,454	11,073	10,454	3,412
1983	NA	NA	NA	10,520	10,905	10,520	3,412
1984	NA	NA	NA	10,440	10,843	10,440	3,412
1985	NA	NA	NA	10,447	10,622	10,447	3,412
1986	NA	NA	NA	10.446	10.579	10,446	3,412
1987	NA	NA	NA	10,419	10,442	10,419	3,412
1988	NA NA	NA NA	NA	10,324	10,602	10.324	3,412
1989	NA NA	NA NA	NA NA	10,432	10,583	10,432	3,412
1990	NA	NA	NA	10,402	10,582	10,402	3,412
1991	NA	NA	NA	10,436	10,484	10,436	3,412
1992	NA	NA	NA	10,342	10,471	10,342	3,412
1993	NA	NA	NA	10,309	10,504	10,309	3,412
1994	NA	NA	NA	10,316	10,452	10,316	3,412
1995	NA	NA	NA	10,312	10,507	10,312	3,412
1996	NA	NA	NA	10,340	10,503	10,340	3,412
1997	NA	NA	NA	10,213	10,494	10,213	3,412
1998	NA	NA	NA	10,197	10,491	10,197	3,412
1999	NA	NA	NA	10,226	10,450	10,226	3,412
2000	NA	NA	NA	10,201	10.429	10,201	3,412
2001	10.378	10.742	10.051	^b 10,333	10.443	10.333	3,412
2002	10,314	10,641	9,533	10,173	10,442	10,173	3,412
2003	10,297	10,610	9.207	10,175	10,422	10,175	3,412
2004	10,331	10,571	8.647	10,016	10,428	10,125	3,412
			-,-	.,	-, -	-,	-,
2005	10,373	10,631	8,551	9,999	10,436	9,999	3,412
2006	10,351	10,809	8,471	9,919	10,435	9,919	3,412
2007	10,375	10,794	8,403	9,884	10,489	9,884	3,412
2008	10,378	11,015	8,305	9,854	10,452	9,854	3,412
2009	10,414	10,923	8,159	9,760	10,459	9,760	3,412
2010	10,415	10,984	8,185	9,756	10,452	9,756	3,412
2011	10,444	10,829	8,152	9,716	10,464	9,716	3,412
2012	10,498	10,991	8,039	9,516	10,479	9,516	3,412
2013	E 10,498	E 10.991	E 8.039	E 9,516	E 10,479	E 9,516	3,412
2014	E 10,498	E 10.991	E 8,039	E 9,516	E 10,479	E 9,516	3,412

a The values in columns 1–6 of this table are for net heat rates. See "Heat Rate" in Glossary.
 b Through 2000, heat rates are for fossil-fueled steam-electric plants at electric utilities. Beginning in 2001, heat rates are for all fossil-fueled plants at electric utilities and

electricity-only independent power producers.

^c Includes anthracite, bituminous coal, subbituminous coal, lignite, and, beginning in 2002, waste coal and coal synfuel.

d Includes distillate fuel oil, residual fuel oil, jet fuel, kerosene, petroleum coke, and waste oil.

e Includes natural gas and supplemental gaseous fuels.

f Includes coal, petroleum, natural gas, and, beginning in 2001, other gases (blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil

⁹ The fossil-fuels heat rate is used as the thermal conversion factor for electricity net generation from noncombustible renewable energy (hydro, geothermal, solar thermal, photovoltaic, and wind) to approximate the quantity of fossil fuels replaced by these sources. Through 2000, also used as the thermal conversion factor for wood and waste electricity net generation at electric utilities; beginning in 2001, Btu data for wood and waste at electric utilities are available from surveys.

h Used as the thermal conversion factor for nuclear electricity net generation.

i Technology-based geothermal heat rates are no longer used in Btu calculations in this report. For technology-based geothermal heat rates for 1960–2010, see the *Annual Energy Review 2010*, Table A6.

J See "Heat Content" in Glossary.

^{**} The value of 3,412 Btu per kilowatthour is a constant. It is used as the thermal conversion factor for electricity retail sales, and electricity imports and exports. E=Estimate. NA=Not available. ——=Not applicable.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#appendices (Excel and CSV files) for all available annual data beginning in 1949. Sources: See "Thermal Conversion Factor Source Documentation," which follows this table.

Thermal Conversion Factor Source Documentation

Approximate Heat Content of Petroleum and Natural Gas Plant Liquids

Asphalt. The U.S. Energy Information Administration (EIA) adopted the thermal conversion factor of 6.636 million British thermal units (Btu) per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement, Annual, 1956*.

Aviation Gasoline Blending Components. Assumed by EIA to be 5.048 million Btu per barrel or equal to the thermal conversion factor for **Aviation Gasoline** (Finished).

Aviation Gasoline (Finished). EIA adopted the thermal conversion factor of 5.048 million Btu per barrel as adopted by the Bureau of Mines from the Texas Eastern Transmission Corporation publication *Competition and Growth in American Energy Markets 1947–1985*, a 1968 release of historical and projected statistics.

Butane-Propane Mixture. EIA adopted the Bureau of Mines calculation of 4.130 million Btu per barrel based on an assumed mixture of 60 percent normal butane and 40 percent propane. See **Normal Butane/Butylene** and **Propane/Propylene**.

Crude Oil Exports. Assumed by EIA to be 5.800 million Btu per barrel or equal to the thermal conversion factor for crude oil produced in the United States. See **Crude Oil Production**.

Crude Oil Imports. Calculated annually by EIA as the average of the thermal conversion factors for each type of crude oil imported weighted by the quantities imported. Thermal conversion factors for each type were calculated on a foreign country basis, by determining the average American Petroleum Institute (API) gravity of crude oil imported from each foreign country from Form ERA-60 in 1977 and converting average API gravity to average Btu content by using National Bureau of Standards, Miscellaneous Publication No. 97, *Thermal Properties of Petroleum Products*, 1933.

Crude Oil Production. EIA adopted the thermal conversion factor of 5.800 million Btu per barrel as reported in a Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Values of Various Fuels, Adopted January 3, 1950."

Distillate Fuel Oil Consumption. • 1949–1993: EIA adopted the Bureau of Mines thermal conversion factor of 5.825 million Btu per barrel as reported in a Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Values of Various Fuels, Adopted January 3, 1950." • 1994 forward: Calculated by EIA as the annual quantity-weighted average of the conversion factors for **Distillate Fuel Oil, 15 ppm Sulfur and Under**

(5.770 million Btu per barrel), **Distillate Fuel Oil, Greater Than 15 ppm to 500 ppm Sulfur** (5.817 million Btu per barrel), and **Distillate Fuel Oil, Greater Than 500 ppm Sulfur** (5.825 million Btu per barrel).

Distillate Fuel Oil, 15 ppm Sulfur and Under. EIA adopted the thermal conversion factor of 5.770 million Btu per barrel (137,380 Btu per gallon) for U.S. conventional diesel from U.S. Department of Energy, Argonne National Laboratory, "The Greenhouse Gases, Regulated Emissions, and Energy Use in Transportation Model" (GREET), version GREET1_2013, October 2013.

Distillate Fuel Oil, Greater Than 15 ppm to 500 ppm Sulfur. EIA adopted the thermal conversion factor of 5.817 million Btu per barrel (138,490 Btu per gallon) for low-sulfur diesel from U.S. Department of Energy, Argonne Laboratory, "The Greenhouse Gases, Regulated Emissions, and Energy Use in Transportation Model" (GREET), version GREET1 2013, October 2013.

Distillate Fuel Oil, Greater Than 500 ppm Sulfur. EIA adopted the Bureau of Mines thermal conversion factor of 5.825 million Btu per barrel as reported in a Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Values of Various Fuels, Adopted January 3, 1950."

Ethane/Ethylene. EIA adopted the Bureau of Mines thermal conversion factor of 3.082 million Btu per barrel as published in the *California Oil World and Petroleum Industry*, First Issue, April 1942.

Ethane-Propane Mixture. EIA calculation of 3.308 million Btu per barrel based on an assumed mixture of 70 percent ethane and 30 percent propane. See **Ethane/Ethylene** and **Propane/Propylene**.

Hydrogen. Assumed by EIA to be 6.287 million Btu per barrel or equal to the thermal conversion factor for **Residual Fuel Oil**.

Isobutane/Isobutylene. EIA adopted the Bureau of Mines thermal conversion factor of 3.974 million Btu per barrel as published in the *California Oil World and Petroleum Industry*, First Issue, April 1942.

Jet Fuel, Kerosene-Type. EIA adopted the Bureau of Mines thermal conversion factor of 5.670 million Btu per barrel for "Jet Fuel, Commercial" as published by the Texas Eastern Transmission Corporation in the report *Competition and Growth in American Energy Markets 1947–1985*, a 1968 release of historical and projected statistics.

Jet Fuel, Naphtha-Type. EIA adopted the Bureau of Mines thermal conversion factor of 5.355 million Btu per barrel for "Jet Fuel, Military" as published by the Texas Eastern Transmission Corporation in the report *Competition and Growth in American Energy Markets* 1947–1985, a 1968 release of historical and projected statistics.

Kerosene. EIA adopted the Bureau of Mines thermal conversion factor of 5.670 million Btu per barrel as reported in a Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Values of Various Fuels, Adopted January 3, 1950."

Liquefied Petroleum Gases Consumption. • 1949–1966: U.S. Department of the Interior, Bureau of Mines, Mineral Industry Surveys. "Crude Petroleum and Petroleum Products, 1956," Table 4 footnote, constant value of 4.011 million Btu per barrel. • 1967 forward: Calculated annually by EIA as the average of the thermal conversion factors for all liquefied petroleum gases consumed (see Table A1) weighted by the quantities consumed. The component products of liquefied petroleum gases are ethane (including ethylene), propane (including propylene), normal butane (including butylene), butane-propane mixtures, ethanepropane mixtures, and isobutane. For 1967–1980, quantities consumed are from EIA, Energy Data Reports, "Petroleum Statement, Annual," Table 1. For 1981 forward, quantities consumed are from EIA, Petroleum Supply Annual, Table 2.

Lubricants. EIA adopted the thermal conversion factor of 6.065 million Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement*, *Annual*, 1956.

Miscellaneous Products. EIA adopted the thermal conversion factor of 5.796 million Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement*, *Annual*, 1956.

Motor Gasoline Blending Components. • 1949–2006: EIA adopted the Bureau of Mines thermal conversion factor of 5.253 million Btu per barrel for "Gasoline, Motor Fuel" as published by the Texas Eastern Transmission Corporation in Appendix V of Competition and Growth in American Markets 1947-1985, a 1968 release of historical and projected statistics. • 2007 forward: EIA adopted the thermal conversion factor of 5.222 million Btu per barrel (124,340 Btu per gallon) for gasoline blendstock from U.S. Department of Energy, Argonne National Laboratory, "The Greenhouse Gases, Regulated Emissions, and Energy Use Transportation Model" (GREET), version GREET1 2013, October 2013.

Motor Gasoline Exports. • 1949–2005: EIA adopted the Bureau of Mines thermal conversion factor of 5.253 million Btu per barrel for "Gasoline, Motor Fuel" as published by the Texas Eastern Transmission Corporation in Appendix V of *Competition and Growth in American Energy Markets* 1947–1985, a 1968 release of historical and projected statistics. • 2006 forward: Calculated by EIA as the annual quantity-weighted average of the conversion factors for gasoline blendstock and the methyl tertiary butyl ether (MTBE) blended into motor gasoline exports. The factor for gasoline blendstock is 5.253 million Btu per barrel in 2006 and 5.222 million Btu per barrel beginning in 2007 (see Motor Gasoline Blending Components). For MTBE, EIA adopted the thermal conversion factor of 4.247 million Btu per barrel (101,130 Btu per gallon) from U.S.

Department of Energy, Argonne National Laboratory, "The Greenhouse Gases, Regulated Emissions, and Energy Use in Transportation Model" (GREET), version GREET1 2013, October 2013.

Motor Gasoline (Finished) Consumption. • 1949–1992: EIA adopted the Bureau of Mines thermal conversion factor of 5.253 million Btu per barrel for "Gasoline, Motor Fuel" as published by the Texas Eastern Transmission Corporation in Appendix V of Competition and Growth in American Markets 1947-1985, a 1968 release of historical and projected statistics. • 1993–2006: Calculated by EIA as the annual quantity-weighted average of the conversion factors for gasoline blendstock and the oxygenates blended into motor gasoline. The factor for gasoline blendstock is 5.253 million Btu per barrel (the motor gasoline factor used for previous years). The factors for fuel ethanol are shown in Table A3 (see Fuel Ethanol, Denatured). The following factors for other oxygenates are from U.S. Department of Energy, Argonne National Laboratory, "The Greenhouse Gases, Regulated Emissions, and Energy Use in Transportation Model" (GREET), version GREET1 2013, October 2013—methyl tertiary butyl ether (MTBE): 4.247 million Btu per barrel (101,130 Btu per gallon); tertiary amyl methyl ether (TAME): 4.560 million Btu per barrel (108,570 Btu per gallon); ethyl tertiary butyl ether (ETBE): 4.390 million Btu per barrel (104,530 Btu per gallon); methanol: 2.738 million Btu per barrel (65,200 Btu per gallon); and butanol: 4.555 million Btu per barrel (108,458 Btu per gallon). • 2007 forward: Calculated by EIA as the annual quantity-weighted average of the conversion factors for gasoline blendstock and fuel ethanol blended into motor gasoline. The factor for gasoline blendstock is 5.222 million Btu per barrel (124,340 Btu per gallon), which is from the GREET model (see above). The factors for fuel ethanol are shown in Table A3 (see Fuel Ethanol, Denatured).

Motor Gasoline Imports. • 1949–2006: EIA adopted the Bureau of Mines thermal conversion factor of 5.253 million Btu per barrel for "Gasoline, Motor Fuel" as published by the Texas Eastern Transmission Corporation in Appendix V of *Competition and Growth in American Energy Markets* 1947–1985, a 1968 release of historical and projected statistics. • 2007 forward: EIA adopted the thermal conversion factor of 5.222 million Btu per barrel (124,340 Btu per gallon) for gasoline blendstock from U.S. Department of Energy, Argonne National Laboratory, "The Greenhouse Gases, Regulated Emissions, and Energy Use in Transportation Model" (GREET), version GREET1_2013, October 2013.

Natural Gas Plant Liquids Production. Calculated annually by EIA as the average of the thermal conversion factors for each natural gas plant liquid produced weighted by the quantities produced.

Natural Gasoline. EIA adopted the thermal conversion factor of 4.620 million Btu per barrel as estimated by the

Bureau of Mines and first published in the *Petroleum Statement, Annual, 1956*.

Normal Butane/Butylene. EIA adopted the Bureau of Mines thermal conversion factor of 4.326 million Btu per barrel as published in the *California Oil World and Petroleum Industry*, First Issue, April 1942.

Other Hydrocarbons. Assumed by EIA to be 5.825 million Btu per barrel or equal to the thermal conversion factor for **Unfinished Oils**.

Oxygenates (Excluding Fuel Ethanol). EIA adopted the thermal conversion factor of 4.247 million Btu per barrel (101,130 Btu per gallon) for methyl tertiary butyl ether (MTBE) from U.S. Department of Energy, Argonne National Laboratory, "The Greenhouse Gases, Regulated Emissions, and Energy Use in Transportation Model" (GREET), version GREET1 2013, October 2013.

Pentanes Plus. Assumed by EIA to be 4.620 million Btu per barrel or equal to the thermal conversion factor for **Natural Gasoline**.

Petrochemical Feedstocks, Naphtha Less Than 401 Degrees Fahrenheit. Assumed by EIA to be 5.248 million Btu per barrel or equal to the thermal conversion factor for Special Naphthas.

Petrochemical Feedstocks, Other Oils Equal to or Greater Than 401 Degrees Fahrenheit. Assumed by EIA to be 5.825 million Btu per barrel or equal to the thermal conversion factor for Distillate Fuel Oil.

Petrochemical Feedstocks, Still Gas. Assumed by EIA to be 6.000 million Btu per barrel or equal to the thermal conversion factor for **Still Gas**.

Petroleum Coke, Catalyst. Assumed by EIA to be 6.287 million Btu per barrel or equal to the thermal conversion factor for **Residual Fuel Oil**.

Petroleum Coke, Marketable. EIA adopted the thermal conversion factor of 5.719 million Btu per barrel, calculated by dividing 28,595,925 Btu per short ton for petroleum coke (from U.S. Department of Energy, Argonne National Laboratory, "The Greenhouse Gases, Regulated Emissions, and Energy Use in Transportation Model" (GREET), version GREET1_October 2013) by 5.0 barrels per short ton (as given in the Bureau of Mines Form 6-1300-M and successor EIA forms).

Petroleum Coke, Total. • 1949–2003: EIA adopted the thermal conversion factor of 6.024 million Btu per barrel as reported in Btu per short ton in the Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Values of Various Fuels, Adopted January 3, 1950." The Bureau of Mines calculated this factor by dividing 30.120 million Btu per short ton, as given in the referenced Bureau of Mines internal memorandum, by 5.0 barrels per short ton, as given in the Bureau of Mines Form

6-1300-M and successor EIA forms. • 2004 forward: Calculated by EIA as the annual quantity-weighted average of the conversion factors for **Petroleum Coke, Catalyst** (6.287 million Btu per barrel) and **Petroleum Coke, Marketable** (5.719 million Btu per barrel).

Petroleum Consumption, Commercial Sector. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed by the commercial sector weighted by the estimated quantities consumed by the commercial sector. The quantities of petroleum products consumed by the commercial sector are estimated in the State Energy Data System—see documentation at

 $http://www.eia.gov/state/seds/sep_use/notes/use_petrol.pdf.$

Petroleum Consumption, Electric Power Sector. Calculated annually by EIA as the average of the thermal conversion factors for distillate fuel oil, petroleum coke, and residual fuel oil consumed by the electric power sector weighted by the quantities consumed by the electric power sector. Data are from Form EIA-923, "Power Plant Operations Report," and predecessor forms.

Petroleum Consumption, Industrial Sector. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed by the industrial sector weighted by the estimated quantities consumed by the industrial sector. The quantities of petroleum products consumed by the industrial sector are estimated in the State Energy Data System—see documentation at http://www.eia.gov/state/seds/sep use/notes/use petrol.pdf.

Petroleum Consumption, Residential Sector. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed by the residential sector weighted by the estimated quantities consumed by the residential sector. The quantities of petroleum products consumed by the residential sector are estimated in the State Energy Data System—see documentation at http://www.eia.gov/state/seds/sep_use/notes/use_petrol.pdf.

Petroleum Consumption, Total. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed weighted by the quantities consumed.

Petroleum Consumption, Transportation Sector. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed by the transportation sector weighted by the estimated quantities consumed by the transportation sector. The quantities of petroleum products consumed by the transportation sector are estimated in the State Energy Data System—see documentation at

http://www.eia.gov/state/seds/sep_use/notes/use_petrol.pdf.

Petroleum Products Exports. Calculated annually by EIA as the average of the thermal conversion factors for each

petroleum product exported weighted by the quantities exported.

Petroleum Products Imports. Calculated annually by EIA as the average of the thermal conversion factors for each petroleum product imported weighted by the quantities imported.

Plant Condensate. Estimated to be 5.418 million Btu per barrel by EIA from data provided by McClanahan Consultants, Inc., Houston, Texas.

Propane/Propylene. EIA adopted the Bureau of Mines thermal conversion factor of 3.836 million Btu per barrel as published in the *California Oil World and Petroleum Industry*, First Issue, April 1942.

Renewable Fuels Except Fuel Ethanol. For "Biomass-Based Diesel Fuel" and "Other Renewable Fuels," EIA assumed the thermal conversion factor to be 5.359 million Btu per barrel or equal to the thermal conversion factor for Biodiesel. For "Other Renewable Diesel Fuel," EIA adopted the thermal conversion factor of 5.494 million Btu per barrel (130,817 Btu per gallon) for renewable diesel II (UOP-HDO) from U.S. Department of Energy, Argonne National Laboratory, "The Greenhouse Gases, Regulated Emissions, and Energy Use in Transportation Model" (GREET), version GREET1 2013, October 2013.

Residual Fuel Oil. EIA adopted the thermal conversion factor of 6.287 million Btu per barrel as reported in the Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Values of Various Fuels, Adopted January 3, 1950."

Road Oil. EIA adopted the Bureau of Mines thermal conversion factor of 6.636 million Btu per barrel, which was assumed to be equal to that of **Asphalt** and was first published by the Bureau of Mines in the *Petroleum Statement*, *Annual*, 1970.

Special Naphthas. EIA adopted the Bureau of Mines thermal conversion factor of 5.248 million Btu per barrel, which was assumed to be equal to that of the total gasoline (aviation and motor) factor and was first published in the *Petroleum Statement, Annual, 1970*.

Still Gas. EIA adopted the Bureau of Mines estimated thermal conversion factor of 6.000 million Btu per barrel, first published in the *Petroleum Statement*, *Annual*, 1970.

Total Petroleum Exports. Calculated annually by EIA as the average of the thermal conversion factors for crude oil and each petroleum product exported weighted by the quantities exported. See **Crude Oil Exports** and **Petroleum Products Exports**.

Total Petroleum Imports. Calculated annually by EIA as the average of the thermal conversion factors for each type

of crude oil and petroleum product imported weighted by the quantities imported. See **Crude Oil Imports** and **Petroleum Products Imports**.

Unfinished Oils. EIA assumed the thermal conversion factor to be 5.825 million Btu per barrel or equal to that for **Distillate Fuel Oil** and first published it in EIA's *Annual Report to Congress, Volume 3, 1977*.

Unfractionated Stream. EIA assumed the thermal conversion factor to be 5.418 million Btu per barrel or equal to that for **Plant Condensate** and first published it in EIA's *Annual Report to Congress, Volume 2, 1981*.

Waxes. EIA adopted the thermal conversion factor of 5.537 million Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement*, *Annual*, 1956.

Approximate Heat Content of Biofuels

Biodiesel. EIA estimated the thermal conversion factor for biodiesel to be 5.359 million Btu per barrel, or 17,253 Btu per pound.

Biodiesel Feedstock. EIA used soybean oil input to the production of biodiesel (million Btu soybean oil per barrel biodiesel) as the factor to estimate total biomass inputs to the production of biodiesel. EIA assumed that 7.65 pounds of soybean oil are needed to produce one gallon of biodiesel, and 5.433 million Btu of soybean oil are needed to produce one barrel of biodiesel. EIA also assumed that soybean oil has a gross heat content of 16,909 Btu per pound, or 5.483 million Btu per barrel.

Ethanol (Undenatured). EIA adopted the thermal conversion factor of 3.539 million Btu per barrel published in "Oxygenate Flexibility for Future Fuels," a paper presented by William J. Piel of the ARCO Chemical Company at the National Conference on Reformulated Gasolines and Clean Air Act Implementation, Washington, D.C., October 1991.

Fuel Ethanol (Denatured). • 1981–2008: EIA used the 2009 factor. • 2009 forward: Calculated by EIA as the annual quantity-weighted average of the thermal conversion factors for undenatured ethanol (3.539 million Btu per barrel), pentanes plus used as denaturant (4.620 million Btu per barrel), and conventional motor gasoline and motor gasoline blending components used as denaturant (5.253 million Btu per barrel). The quantity of ethanol consumed is from EIA's Petroleum Supply Annual (PSA) and Petroleum Supply Monthly (PSM), Table 1, data for renewable fuels and oxygenate plant net production of fuel ethanol. The quantity of pentanes plus used as denaturant is from PSA/PSM, Table 1, data for renewable fuels and oxygenate plant net production of pentanes plus, multiplied by -1. The quantity of conventional motor gasoline and motor gasoline blending components used as

denaturant is from PSA/PSM, Table 1, data for renewable fuels and oxygenate plant net production of conventional motor gasoline and motor gasoline blending components, multiplied by -1.

Fuel Ethanol Feedstock. EIA used corn input to the production of undenatured ethanol (million Btu corn per barrel undenatured ethanol) as the annual factor to estimate total biomass inputs to the production of undenatured ethanol. U.S. Department of Agriculture observed ethanol yields (gallons undenatured ethanol per bushel of corn) were 2.5 in 1980, 2.666 in 1998, 2.68 in 2002, and 2.764 in 2009; EIA estimated the ethanol yields in other years. EIA also assumed that corn has a gross heat content of 0.392 million Btu per bushel.

Approximate Heat Content of Natural Gas

Natural Gas Consumption, Electric Power Sector. Calculated annually by EIA by dividing the heat content of natural gas consumed by the electric power sector by the quantity consumed. Data are from Form EIA-923, "Power Plant Operations Report," and predecessor forms.

Natural Gas Consumption, End-Use Sectors. Calculated annually by EIA by dividing the heat content of natural gas consumed by the end-use sectors (residential, commercial, industrial, and transportation) by the quantity consumed. Data are from Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition."

Natural Gas Consumption, Total. • 1949–1962: EIA adopted the thermal conversion factor of 1,035 Btu per cubic foot as estimated by the Bureau of Mines and first published in the *Petroleum Statement*, *Annual*, 1956. • 1963–1979: EIA adopted the thermal conversion factor calculated annually by the American Gas Association (AGA) and published in *Gas Facts*, an AGA annual publication. • 1980 forward: Calculated annually by EIA by dividing the total heat content of natural gas consumed by the total quantity consumed.

Natural Gas Exports. • 1949–1972: Assumed by EIA to be equal to the thermal conversion factor for dry natural gas consumed (see Natural Gas Consumption, Total). • 1973 forward: Calculated annually by EIA by dividing the heat content of natural gas exported by the quantity exported. For 1973–1995, data are from Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas." Beginning in 1996, data are from U.S. Department of Energy, Office of Fossil Energy, Natural Gas Imports and Exports.

Natural Gas Imports. • 1949–1972: Assumed by EIA to be equal to the thermal conversion factor for dry natural gas consumed (see Natural Gas Consumption, Total). • 1973 forward: Calculated annually by EIA by dividing the heat content of natural gas imported by the quantity

imported. For 1973–1995, data are from Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas." Beginning in 1996, data are from U.S. Department of Energy, Office of Fossil Energy, *Natural Gas Imports and Exports*.

Natural Gas Production, Dry. Assumed by EIA to be equal to the thermal conversion factor for dry natural gas consumed. See **Natural Gas Consumption, Total**.

Natural Gas Production, Marketed. Calculated annually by EIA by dividing the heat content of dry natural gas produced (see Natural Gas Production, Dry) and natural gas plant liquids produced (see Natural Gas Plant Liquids Production) by the total quantity of marketed natural gas produced.

Approximate Heat Content of Coal and Coal Coke

Coal Coke Imports and Exports. EIA adopted the Bureau of Mines estimate of 24.800 million Btu per short ton.

Coal Consumption, Electric Power Sector. Calculated annually by EIA by dividing the heat content of coal consumed by the electric power sector by the quantity consumed. Data are from Form EIA-923, "Power Plant Operations Report," and predecessor forms.

Coal Consumption, Industrial Sector, Coke Plants.

• 1949–2011: Calculated annually by EIA based on the reported volatility (low, medium, or high) of coal received by coke plants. (For 2011, EIA used the following volatility factors, in million Btu per short ton: low volatile—26.680; medium volatile—27.506; and high volatile—25.652.) Data are from Form EIA-5, "Quarterly Coal Consumption and Quality Report—Coke Plants," and predecessor forms.
• 2012 forward: Calculated annually by EIA by dividing the heat content of coal received by coke plants by the quantity received. Data are from Form EIA-5, "Quarterly Coal Consumption and Quality Report—Coke Plants."

Coal Consumption, Industrial Sector, Other.

• 1949–2007: Calculated annually by EIA by dividing the heat content of coal received by manufacturing plants by the quantity received. Data are from Form EIA-3, "Quarterly Coal Consumption and Quality Report—Manufacturing Plants," and predecessor forms. • 2008 forward: Calculated annually by EIA by dividing the heat content of coal received by manufacturing, gasification, and liquefaction plants by the quantity received. Data are from Form EIA-3, "Quarterly Coal Consumption and Quality Report—Manufacturing and Transformation/Processing Coal Plants and Commercial and Institutional Users."

Coal Consumption, Residential and Commercial Sectors. • 1949–1999: Calculated annually by EIA by dividing the heat content of coal received by the residential and commercial sectors by the quantity received. Data are

from Form EIA-6, "Coal Distribution Report," and predecessor forms. • 2000-2007: Calculated annually by EIA by dividing the heat content of coal consumed by commercial combined-heat-and-power (CHP) plants by the quantity consumed. Data are from Form EIA-923, "Power Plant Operations Report," and predecessor forms. • 2008 forward: Calculated annually by EIA by dividing the heat content of coal received by commercial and institutional users by the quantity received. Data are from Form EIA-3, "Quarterly Coal Consumption and Quality Report—Manufacturing and Transformation/Processing Coal Plants and Commercial and Institutional Users."

Coal Consumption, Total. Calculated annually by EIA by dividing the total heat content of coal consumed by all sectors by the total quantity consumed.

Coal Exports. • 1949–2011: Calculated annually by EIA by dividing the heat content of steam coal and metallurgical coal exported by the quantity exported. Data are from U.S. Department of Commerce, Bureau of the Census, "Monthly Report EM 545," and predecessor forms. • 2012 forward: Calculated annually by EIA by dividing the heat content of steam coal and metallurgical coal exported by the quantity exported. The average heat content of steam coal is derived from receipts data from Form EIA-3, "Quarterly Coal Consumption and Quality Report—Manufacturing and Transformation/Processing Coal Plants and Commercial and Institutional Users," and Form EIA-923, "Power Plant Operations Report." The average heat content of metallurgical coal is derived from receipts data from Form EIA-5, "Quarterly Coal Consumption and Quality Report—Coke Plants." Data for export quantities are from U.S. Department of Commerce, Bureau of the Census, "Monthly Report EM 545."

Coal Imports. • 1949–1963: Calculated annually by EIA by dividing the heat content of coal imported by the quantity imported. Data are from U.S. Department of Commerce, Bureau of the Census, "Monthly Report IM 145," and predecessor forms. • 1964–2011: Assumed by EIA to be 25.000 million Btu per short ton. • 2012 forward: Calculated annually by EIA by dividing the heat content of coal imported (received) by the quantity imported (received). Data are from Form EIA-3, "Quarterly Coal Consumption and Quality Report—Manufacturing and Transformation/Processing Coal Plants and Commercial and Institutional Users"; Form EIA-5, "Quarterly Coal Consumption and Quality Report—Coke Plants"; and Form EIA-923, "Power Plant Operations Report."

Coal Production. • 1949–2011: Calculated annually by EIA by dividing the heat content of domestic coal (excluding waste coal) received by the quantity received. Data are from Form EIA-3, "Quarterly Coal Consumption and Quality Report—Manufacturing and Transformation/Processing Coal Plants and Commercial and Institutional Users"; Form EIA-5, "Quarterly Coal Consumption and Quality Report—Coke Plants"; Form EIA-923, "Power Plant Operations Report"; and predecessor forms. • 2012

forward: Calculated annually by EIA by dividing the heat content of domestic coal (excluding waste coal) received and exported by the quantity received and exported. Data are from Form EIA-3, "Quarterly Coal Consumption and Quality Report—Manufacturing and Transformation/Processing Coal Plants and Commercial and Institutional Users"; Form EIA-5, "Quarterly Coal Consumption and Quality Report—Coke Plants"; Form EIA-923, "Power Plant Operations Report"; U.S. Department of Commerce, Bureau of the Census, "Monthly Report EM 545"; and predecessor forms.

Waste Coal Supplied. • 1989–2000: Calculated annually by EIA by dividing the heat content of waste coal consumed by the quantity consumed. Data are from Form EIA-860B, "Annual Electric Generator Report—Nonutility," and predecessor form. • 2001 forward: Calculated by EIA by dividing the heat content of waste coal received (or consumed) by the quantity received (or consumed). Receipts data are from Form EIA-3, "Quarterly Coal Consumption and Quality Report—Manufacturing and Transformation/Processing Coal Plants and Commercial and Institutional Users," and predecessor form. Consumption data are from Form EIA-923, "Power Plant Operations Report," and predecessor forms.

Approximate Heat Rates for Electricity

Electricity Net Generation, Coal. • 2001 forward: Calculated annually by EIA by using fuel consumption and net generation data reported on Form EIA-923, "Power Plant Operations Report," and predecessor forms. The computation includes data for all electric utilities and electricity-only independent power producers using anthracite, bituminous coal, subbituminous coal, lignite, and beginning in 2002, waste coal and coal synfuel.

Electricity Net Generation, Natural Gas. • 2001 forward: Calculated annually by EIA by using fuel consumption and net generation data reported on Form EIA-923, "Power Plant Operations Report," and predecessor forms. The computation includes data for all electric utilities and electricity-only independent power producers using natural gas and supplemental gaseous fuels.

Electricity Net Generation, Noncombustible Renewable Energy. There is no generally accepted practice for measuring the thermal conversion rates for power plants that generate electricity from hydro, geothermal, solar thermal, photovoltaic, and wind energy sources. Therefore, EIA calculates a rate factor that is equal to the annual average heat rate factor for fossil-fueled power plants in the United States (see "Electricity Net Generation, Total Fossil Fuels"). By using that factor it is possible to evaluate fossil fuel requirements for replacing those sources during periods of interruption, such as droughts.

Electricity Net Generation, Nuclear. • 1957–1984: Calculated annually by dividing the total heat content consumed in nuclear generating units by the total (net)

electricity generated by nuclear generating units. The heat content and electricity generation were reported on Form FERC-1, "Annual Report of Major Electric Utilities, Licensees, and Others"; Form EIA-412, "Annual Report of Public Electric Utilities"; and predecessor forms. For 1982, the factors were published in EIA, *Historical Plant Cost and Annual Production Expenses for Selected Electric Plants 1982*, page 215. For 1983 and 1984, the factors were published in EIA, *Electric Plant Cost and Power Production Expenses 1991*, Table 13. • 1985 forward: Calculated annually by EIA by using the heat rate data reported on Form EIA-860, "Annual Electric Generator Report," and predecessor forms.

Electricity Net Generation, Petroleum. • 2001 forward: Calculated annually by EIA by using fuel consumption and net generation data reported on Form EIA-923, "Power Plant Operations Report," and predecessor forms. The computation includes data for all electric utilities and electricity-only independent power producers using distillate fuel oil, residual fuel oil, jet fuel, kerosene, petroleum coke, and waste oil.

Electricity Net Generation, Total Fossil Fuels.

• 1949–1955: The weighted annual average heat rate for

fossil-fueled steam-electric power plants in the United States, as published by EIA in Thermal-Electric Plant Cost and Annual Production Construction Expenses—1981 and Steam-Electric Plant Construction Cost and Annual Production Expenses—1978. • 1956–1988: The weighted annual average heat rate for fossil-fueled steam-electric power plants in the United States, as published in EIA, Electric Plant Cost and Power Production Expenses 1991, Table 9. • 1989-2000: Calculated annually by EIA by using heat rate data reported on Form EIA-860, "Annual Electric Generator Report," and predecessor forms; and net generation data reported on Form EIA-759, "Monthly Power Plant Report." The computation includes data for all electric utility steam-electric plants using fossil fuels. • 2001 forward: Calculated annually by EIA by using fuel consumption and net generation data reported on Form EIA-923, "Power Plant Operations Report," and predecessor forms. The computation includes data for all electric utilities and electricity-only independent power producers using coal, petroleum, natural gas, and other gases (blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels).

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Appendix B

Metric Conversion Factors, Metric Prefixes, and Other Physical Conversion Factors

Data presented in the *Monthly Energy Review* and in other U.S. Energy Information Administration publications are expressed predominately in units that historically have been used in the United States, such as British thermal units, barrels, cubic feet, and short tons. The metric conversion factors presented in Table B1 can be used to calculate the metric-unit equivalents of values expressed in U.S. Customary units. For example, 500 short tons are the equivalent of 453.6 metric tons (500 short tons x 0.9071847 metric tons/short ton = 453.6 metric tons).

In the metric system of weights and measures, the names of multiples and subdivisions of any unit may be derived by combining the name of the unit with prefixes, such as deka, hecto, and kilo, meaning, respectively, 10, 100, 1,000, and deci, centi, and milli, meaning, respectively, one-tenth, one-hundredth, and one-thousandth. Common metric prefixes can be found in Table B2.

The conversion factors presented in Table B3 can be used to calculate equivalents in various physical units commonly used in energy analyses. For example, 10 barrels are the equivalent of 420 U.S. gallons (10 barrels x 42 gallons/barrel = 420 gallons).

Table B1. Metric Conversion Factors

Type of Unit	U.S. Unit		Equivalent in Metric Units		
Mass	1 short ton (2,000 lb)	=	0.907 184 7	metric tons (t)	
	1 long ton	=	1.016 047	metric tons (t)	
	1 pound (lb)	=	0.453 592 37ª	kilograms (kg)	
	1 pound uranium oxide (lb U ₃ O ₈)	=	0.384 647 ^b	kilograms uranium (kgU)	
	1 ounce, avoirdupois (avdp oz)	=	28.349 52	grams (g)	
Volume	1 barrel of oil (bbl)	=	0.158 987 3	cubic meters (m³)	
	1 cubic yard (yd³)	=	0.764 555	cubic meters (m³)	
	1 cubic foot (ft³)	=	0.028 316 85	cubic meters (m³)	
	1 U.S. gallon (gal)	=	3.785 412	liters (L)	
	1 ounce, fluid (fl oz)	=	29.573 53	milliliters (mL)	
	1 cubic inch (in³)	=	16.387 06	milliliters (mL)	
Length	1 mile (mi)	=	1.609 344ª	kilometers (km)	
	1 yard (yd)	=	0.914 4ª	meters (m)	
	1 foot (ft)	=	0.304 8 ^a	meters (m)	
	1 inch (in)	=	2.54 ^a	centimeters (cm)	
Area	1 acre	=	0.404 69	hectares (ha)	
	1 square mile (mi ²)	=	2.589 988	square kilometers (km²)	
	1 square yard (yd²)	=	0.836 127 4	square meters (m²)	
	1 square foot (ft²)	=	0.092 903 04 ^a	square meters (m²)	
	1 square inch (in²)	=	6.451 6ª	square centimeters (cm ²)	
Energy	1 British thermal unit (Btu)°	=	1,055.055 852 62°	joules (J)	
	1 calorie (cal)	=	4.186 8ª	joules (J)	
	1 kilowatthour (kWh)	=	3.6ª	megajoules (MJ)	
Temperature ^d	32 degrees Fahrenheit (°F)	=	O ^a	degrees Celsius (°C)	
	212 degrees Fahrenheit (°F)	=	100ª	degrees Celsius (°C)	

^aExact conversion.

Sources: • General Services Administration, Federal Standard 376B, *Preferred Metric Units for General Use by the Federal Government* (Washington, DC, January 1993), pp. 9-11, 13, and 16. • U.S. Department of Commerce, National Institute of Standards and Technology, Special Publications 330, 811, and 814. • American National Standards Institute/Institute of Electrical and Electronic Engineers, ANSI/IEEE Std 268-1992, pp. 28 and 29.

^bCalculated by the U.S. Energy Information Administration.

The Btu used in this table is the International Table Btu adopted by the Fifth International Conference on Properties of Steam, London, 1956. To convert degrees Fahrenheit (°F) to degrees Celsius (°C) exactly, subtract 32, then multiply by 5/9.

Notes: • Spaces have been inserted after every third digit to the right of the decimal for ease of reading. • Most metric units belong to the International System of Units (SI), and the liter, hectare, and metric ton are accepted for use with the SI units. For more information about the SI units, see http://physics.nist.gov/cuu/Units/index.html.

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

Table B2. Metric Prefixes

Unit Multiple	Prefix	Symbol	Unit Subdivision	Prefix	Symbol
10 ¹	deka	da	10 ⁻¹	deci	d
10 ²	hecto	h	10 ⁻²	centi	С
10 ³	kilo	k	10 ⁻³	milli	m
10 ⁶	mega	M	10 ⁻⁶	micro	μ
10 ⁹	giga	G	10 ⁻⁹	nano	n
10 ¹²	tera	Т	10 ⁻¹²	pico	р
10 ¹⁵	peta	Р	10 ⁻¹⁵	femto	f
10 ¹⁸	exa	Е	10 ⁻¹⁸	atto	а
10 ²¹	zetta	Z	10 ⁻²¹	zepto	Z
10 ²⁴	yotta	Υ	10 ⁻²⁴	yocto	у

Web Page: http://www.eia.gov/totalenergy/data/monthly/#appendices. Source: U.S. Department of Commerce, National Institute of Standards and Technology, *The International System of Units (SI)*, NIST Special Publication 330, 1991 Edition (Washington, DC, August 1991), p.10.

Table B3. Other Physical Conversion Factors

Energy Source	Original Unit		Equivalent in Final Units		
Petroleum	1 barrel (bbl)	=	42ª	U.S. gallons (gal)	
Coal	1 short ton	=	2,000ª	pounds (lb)	
	1 long ton	=	2,240 ^a	pounds (lb)	
	1 metric ton (t)	=	1,000°	kilograms (kg)	
Wood	1 cord (cd)	=	1.25 ^b	shorts tons	
	1 cord (cd)	=	128ª	cubic feet (ft3)	

^aExact conversion.

Source: U.S. Department of Commerce, National Institute of Standards and Technology, Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices, NIST Handbook 44, 1994 Edition (Washington, DC, October 1993), pp. B-10, C-17 and C-21.

^bCalculated by the U.S. Energy Information Administration.

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

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Glossary

Alcohol: The family name of a group of organic chemical compounds composed of carbon, hydrogen, and oxygen. The series of molecules vary in chain length and are composed of a **hydrocarbon** plus a hydroxyl group; CH(3)-(CH(2))_n-OH (e.g., **methanol**, **ethanol**, and tertiary butyl alcohol). See **Fuel Ethanol**.

Alternative Fuel: Alternative fuels, for transportation applications, include the following: methanol; denatured ethanol, and other alcohols; fuel mixtures containing 85 percent or more by volume of methanol, denatured ethanol, and other alcohols with motor gasoline or other fuels; natural gas; liquefied petroleum gas (propane); hydrogen; coal-derived liquid fuels; fuels (other than alcohol) derived from biological materials (biofuels such as soy diesel fuel); electricity (including electricity from solar energy); and "... any other fuel the Secretary determines, by rule, is substantially not petroleum and would yield substantial energy security benefits and substantial environmental benefits." The term "alternative fuel" does not include alcohol or other blended portions of primarily petroleum-based fuels used as oxygenates or extenders, i.e., MTBE, ETBE, other ethers, and the 10-percent ethanol portion of gasohol.

Alternative-Fuel Vehicle (AFV): A vehicle designed to operate on an alternative fuel (e.g., compressed natural gas, methane blend, or electricity). The vehicle could be either a dedicated vehicle designed to operate exclusively on alternative fuel or a nondedicated vehicle designed to operate on alternative fuel and/or a traditional fuel.

Anthracite: The highest rank of coal; used primarily for residential and commercial space heating. It is a hard, brittle, and black lustrous coal, often referred to as hard coal, containing a high percentage of fixed carbon and a low percentage of volatile matter. The moisture content of fresh-mined anthracite generally is less than 15 percent. The heat content of anthracite ranges from 22 to 28 million Btu per short ton on a moist, mineral-matter-free basis. The heat content of anthracite coal consumed in the United States averages 25 million Btu per short ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter). Note: Since the 1980's, anthracite refuse or mine waste has been used for steam-electric power generation. This fuel typically has a heat content of 15 million Btu per ton or less.

Anthropogenic: Made or generated by a human or caused by human activity. The term is used in the context of global **climate change** to refer to gaseous emissions that are the result of human activities, as well as other potentially climate-altering activities, such as deforestation.

Asphalt: A dark-brown-to-black cement-like material containing bitumens as the predominant constituents obtained by petroleum processing. The definition includes crude asphalt as well as the following finished products: cements, fluxes, the asphalt content of emulsions (exclusive of water), and petroleum distillates blended with asphalt to make cutback asphalts.

ASTM: The American Society for Testing and Materials.

Aviation Gasoline Blending Components: Naphthas that will be used for blending or compounding into finished aviation gasoline (e.g., straight run gasoline, alkylate, reformate, benzene, toluene, and xylene). Excludes oxygenates (alcohols, ethers), butane, and pentanes plus.

Aviation Gasoline, Finished: A complex mixture of relatively volatile hydrocarbons with or without small quantities of additives, blended to form a fuel suitable for use in aviation reciprocating engines. Fuel specifications are provided in ASTM Specification D 910 and Military Specification MIL-G-5572. *Note:* Data on blending components are not counted in data on finished aviation gasoline.

Barrel (Petroleum): A unit of volume equal to 42 U.S. Gallons.

Base Gas: The quantity of **natural gas** needed to maintain adequate reservoir pressures and deliverability rates throughout the withdrawal season. Base gas usually is not withdrawn and remains in the reservoir. All natural gas native to a depleted reservoir is included in the base gas volume.

Biodiesel: A fuel typically made from soybean, canola, or other vegetable oils; animal fats; and recycled grease. It can serve as a substitute for **petroleum**-derived **diesel fuel** or **distillate fuel oil**. For U.S. Energy Information Administration reporting, it is a fuel composed of mono-alkyl esters of long chain fatty acids derived from vegetable oils or animal fats, designated B100, and meeting the requirements of ASTM (American Society for Testing & Materials) D 6751.

Biofuels: Liquid fuels and blending components produced from **biomass** (plant) feedstocks, used primarily for transportation. See **Biodiesel** and **Fuel Ethanol**.

Biogenic: Produced by biological processes of living organisms. Note: EIA uses the term "biogenic" to refer only to organic nonfossil material of biological origin.

Biomass: Organic non-fossil material of biological origin constituting a **renewable energy** source. See **Biodiesel**,

Biofuels, Biomass Waste, Fuel Ethanol, and Wood and Wood-Derived Fuels.

Biomass Waste: Organic non-fossil material of biological origin that is a byproduct or a discarded product. "Biomass waste" includes municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural crop byproducts, straw, and other biomass solids, liquids, and gases; but excludes wood and wood-derived fuels (including black liquor), biofuels feedstock, biodiesel, and fuel ethanol. Note: EIA "biomass waste" data also include energy crops grown specifically for energy production, which would not normally constitute waste.

Bituminous Coal: A dense coal, usually black, sometimes dark brown, often with well-defined bands of bright and dull material, used primarily as fuel in steam-electric power generation, with substantial quantities also used for heat and power applications in manufacturing and to make coke. Bituminous coal is the most abundant coal in active U.S. mining regions. Its moisture content usually is less than 20 percent. The heat content of bituminous coal ranges from 21 to 30 million Btu per short ton on a moist, mineral-matter-free basis. The heat content of bituminous coal consumed in the United States averages 24 million Btu per short ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter).

Black Liquor: A byproduct of the paper production process, alkaline spent liquor, that can be used as a source of energy. Alkaline spent liquor is removed from the digesters in the process of chemically pulping wood. After evaporation, the residual "black" liquor is burned as a fuel in a recovery furnace that permits the recovery of certain basic chemicals.

British Thermal Unit (Btu): The quantity of heat required to raise the temperature of 1 pound of liquid water by 1 degree Fahrenheit at the temperature at which water has its greatest density (approximately 39 degrees Fahrenheit). See **Heat Content**.

Btu: See British Thermal Unit.

Btu Conversion Factor: A factor for converting energy data between one unit of measurement and British thermal units (Btu). Btu conversion factors are generally used to convert energy data from physical units of measure (such as barrels, cubic feet, or short tons) into the energy-equivalent measure of Btu. (See http://www.eia.gov/totalenergy/data/monthly/#appendices for further information on Btu conversion factors.)

Butane: A normally gaseous straight-chain or branched-chain hydrocarbon (C_4H_{10}). It is extracted from natural gas or refinery gas streams. It includes isobutane and normal butane and is designated in ASTM Specification D1835 and Gas Processors Association Specifications for commercial butane.

Isobutane: A normally gaseous branched-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of 10.9° F. It is extracted from natural gas or refinery gas streams.

Normal Butane: A normally gaseous straight-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of 31.1° F. It is extracted from natural gas or refinery gas streams.

Butylene: An olefinic hydrocarbon (C_4H_8) recovered from refinery processes.

Capacity Factor: The ratio of the electrical energy produced by a generating unit for a given period of time to the electrical energy that could have been produced at continuous full-power operation during the same period.

Carbon Dioxide (CO₂): A colorless, odorless, non-poisonous gas that is a normal part of Earth's atmosphere. Carbon dioxide is a product of **fossil-fuel** combustion as well as other processes. It is considered a **greenhouse gas** as it traps heat (infrared energy) radiated by the Earth into the atmosphere and thereby contributes to the potential for **global warming**. The **global warming potential** (GWP) of other greenhouse gases is measured in relation to that of carbon dioxide, which by international scientific convention is assigned a value of one (1).

Chained Dollars: A measure used to express real prices. Real prices are those that have been adjusted to remove the effect of changes in the purchasing power of the dollar; they usually reflect buying power relative to a reference year. Prior to 1996, real prices were expressed in constant dollars, a measure based on the weights of goods and services in a single year, usually a recent year. In 1996, the U.S. Department of Commerce introduced the chained-dollar measure. The new measure is based on the average weights of goods and services in successive pairs of years. It is "chained" because the second year in each pair, with its weights, becomes the first year of the next pair. The advantage of using the chained-dollar measure is that it is more closely related to any given period and is therefore subject to less distortion over time.

CIF: See Cost, Insurance, Freight.

Citygate: A point or measuring station at which a distribution gas utility receives gas from a **natural gas** pipeline company or transmission system.

Climate Change: A term used to refer to all forms of climatic inconsistency, but especially to significant change from one prevailing climatic condition to another. In some cases, "climate change" has been used synonymously with the term "global warming"; scientists, however, tend to use the term in a wider sense inclusive of natural changes in climate, including climatic cooling.

Coal: A readily combustible black or brownish-black rock whose composition, including inherent moisture, consists of more than 50 percent by weight and more than 70 percent by volume of carbonaceous material. It is formed from plant remains that have been compacted, hardened, chemically altered, and metamorphosed by heat and pressure over geologic time. See Anthracite, Bituminous Coal, Lignite, Subbituminous Coal, Waste Coal, and Coal Synfuel.

Coal Coke: See Coke, Coal.

Coal Stocks: Coal quantities that are held in storage for future use and disposition. Note: When coal data are collected for a particular reporting period (month, quarter, or year), coal stocks are commonly measured as of the last day of the period.

Coal Synfuel: Coal-based solid fuel that has been processed by a **coal synfuel plant**; and coal-based fuels such as briquettes, pellets, or extrusions, which are formed from fresh or recycled coal and binding materials.

Coal Synfuel Plant: A plant engaged in the chemical transformation of **coal** into **coal synfuel**.

Coke, Coal: A solid carbonaceous residue derived from low-ash, low-sulfur bituminous coal from which the volatile constituents are driven off by baking in an oven at temperatures as high as 2,000° F so that the fixed carbon and residual ash are fused together. Coke is used as a fuel and as a reducing agent in smelting iron ore in a blast furnace. Coke (coal) has a heating value of 24.8 million Btu per ton.

Coke, Petroleum: A residue high in carbon content and low in hydrogen that is the final product of thermal decomposition in the condensation process in cracking. This product is reported as marketable coke or catalyst coke. The conversion is 5 barrels (42 U.S. gallons each) per short ton. Coke (petroleum) has a heating value of 6.024 million Btu per barrel.

Coking Coal: Bituminous coal suitable for making coke. See **Coke**, **Coal**.

Combined-Heat-and-Power (CHP) Plant: A plant designed to produce both heat and electricity from a single heat source. Note: This term is being used in place of the term "cogenerator" that was used by EIA in the past. CHP better describes the facilities because some of the plants included do not produce heat and power in a sequential fashion and, as a result, do not meet the legal definition of cogeneration specified in the Public Utility Regulatory Policies Act (PURPA).

Commercial Sector: An energy-consuming sector that consists of service-providing facilities and equipment of: businesses; federal, state, and local governments; and other private and public organizations, such as religious,

social, or fraternal groups. The commercial sector includes institutional living quarters. It also includes sewage treatment facilities. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a wide variety of other equipment. *Note*: This sector includes generators that produce electricity and/or useful thermal output primarily to support the activities of the abovementioned commercial establishments. Various EIA programs differ in sectoral coverage-for more information see

http://www.eia.gov/neic/datadefinitions/Guideforwebcom.htm. See End-Use Sectors and Energy-Use Sectors.

Completion: The installation of permanent equipment for the production of oil or gas. If a well is equipped to produce only oil or gas from one zone or reservoir, the definition of a well (classified as an oil well or gas well) and the definition of a completion are identical. However, if a well is equipped to produce oil and/or gas separately from more than one reservoir, a well is not synonymous with a completion.

Conventional Hydroelectric Power: Hydroelectric power generated from flowing water that is not created by hydroelectric pumped storage.

Conventional Motor Gasoline: See **Motor Gasoline Conventional.**

Conversion Factor: A factor for converting data between one unit of measurement and another (such as between **short tons** and **British thermal units**, or between **barrels** and gallons). (See http://www.eia.gov/totalenergy/data/monthly/#appendices for further information on conversion factors.) See **Btu Conversion Factor** and **Thermal Conversion Factor**.

Cost, Insurance, Freight (CIF): A sales transaction in which the seller pays for the transportation and insurance of the goods to the port of destination specified by the buyer.

Crude Oil: A mixture of hydrocarbons that exists in liquid phase in natural underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities. Depending upon the characteristics of the crude stream, it may also include: 1) small amounts of hydrocarbons that exist in gaseous phase in natural underground reservoirs but are liquid at atmospheric pressure after being recovered from oil well (casinghead) gas in lease separators and are subsequently commingled with the crude stream without being separately measured. Lease condensate recovered as a liquid from natural gas wells in lease or field separation facilities and later mixed into the crude stream is also included; 2) small amounts of nonhydrocarbons produced with the oil, such as sulfur and various metals; and 3) drip gases, and liquid hydrocarbons produced from tar sands, oil sands, gilsonite, and oil shale.

Liquids produced at natural gas processing plants are excluded. Crude oil is refined to produce a wide array of petroleum products, including heating oils; gasoline, diesel and jet fuels; lubricants; asphalt; ethane, propane, and butane; and many other products used for their energy or chemical content.

Crude Oil F.O.B. Price: The crude oil price actually charged at the oil-producing country's port of loading. Includes deductions for any rebates and discounts or additions of premiums, where applicable. It is the actual price paid with no adjustment for credit terms.

Crude Oil (Including Lease Condensate): A mixture of hydrocarbons that exists in liquid phase in underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities. Included are lease condensate and liquid hydrocarbons produced from tar sands, gilsonite, and oil shale. Drip gases are also included, but topped crude oil (residual oil) and other unfinished oils are excluded. Where identifiable, liquids produced at natural gas processing plants and mixed with crude oil are likewise excluded.

Crude Oil Landed Cost: The price of crude oil at the port of discharge, including charges associated with the purchase, transporting, and insuring of a cargo from the purchase point to the port of discharge. The cost does not include charges incurred at the discharge port (e.g., import tariffs or fees, wharfage charges, and demurrage).

Crude Oil Refinery Input: The total crude oil put into processing units at refineries.

Crude Oil Stocks: Stocks of crude oil and lease condensate held at refineries, in pipelines, at pipeline terminals, and on leases.

Crude Oil Used Directly: Crude oil consumed as fuel by crude oil pipelines and on crude oil leases.

Crude Oil Well: A well completed for the production of crude oil from one or more oil zones or reservoirs. Wells producing both crude oil and natural gas are classified as oil wells.

Cubic Foot (Natural Gas): A unit of volume equal to 1 cubic foot at a pressure base of 14.73 pounds standard per square inch absolute and a temperature base of 60° F.

Degree-Day Normals: Simple arithmetic averages of monthly or annual degree-days over a long period of time (usually the 30-year period 1961-1990). The averages may be simple degree-day normals or population-weighted degree-day normals.

Degree-Days, Cooling (CDD): A measure of how warm a location is over a period of time relative to a base temperature, most commonly specified as 65 degrees

Fahrenheit. The measure is computed for each day by subtracting the base temperature (65 degrees) from the average of the day's high and low temperatures, with negative values set equal to zero. Each day's cooling degree-days are summed to create a cooling degree-day measure for a specified reference period. Cooling degree-days are used in energy analysis as an indicator of air conditioning energy requirements or use.

Degree-Days, Heating (HDD): A measure of how cold a location is over a period of time relative to a base temperature, most commonly specified as 65 degrees Fahrenheit. The measure is computed for each day by subtracting the average of the day's high and low temperatures from the base temperature (65 degrees), with negative values set equal to zero. Each day's heating degree-days are summed to create a heating degree-day measure for a specified reference period. Heating degree-days are used in energy analysis as an indicator of space heating energy requirements or use.

Degree-Days, Population-Weighted: Heating or cooling degree-days weighted by the population of the area in which the degree-days are recorded. To compute state population-weighted degree-days, each state is divided into from one to nine climatically homogeneous divisions, which are assigned weights based on the ratio of the population of the division to the total population of the state. Degree-day readings for each division are multiplied by the corresponding population weight for each division and those products are then summed to arrive at the state population-weighted degree-day figure. To compute national population-weighted degree-days, the nation is divided into nine Census regions, each comprising from three to eight states, which are assigned weights based on the ratio of the population of the region to the total population of the nation. Degree-day readings for each region are multiplied by the corresponding population weight for each region and those products are then summed to arrive at the national population-weighted degree-day figure.

Denaturant: Petroleum, typically **pentanes plus** or **conventional motor gasoline**, added to **fuel ethanol** to make it unfit for human consumption. Fuel ethanol is denatured, usually prior to transport from the ethanol production facility, by adding 2 to 5 volume percent denaturant. See **Fuel Ethanol** and **Fuel Ethanol Minus Denaturant**.

Design Electrical Rating, Net: The nominal net electrical output of a nuclear unit as specified by the electric utility for the purpose of plant design.

Development Well: A well drilled within the proved area of an oil or gas reservoir to the depth of a stratigraphic horizon known to be productive.

Diesel Fuel: A fuel composed of **distillate fuel oils** obtained in petroleum refining operation or blends of such

distillate fuel oils with **residual fuel oil** used in motor vehicles. The boiling point and specific gravity are higher for diesel fuels than for gasoline.

Direct Use: Use of electricity that 1) is self-generated, 2) is produced by either the same entity that consumes the power or an affiliate, and 3) is 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**.

Distillate Fuel Oil: A general classification for one of the **petroleum** fractions produced in conventional distillation operations. It includes **diesel fuels** and fuel oils. Products known as No. 1, No. 2, and No. 4 diesel fuel are used in on-highway diesel engines, such as those in trucks and automobiles, as well as off-highway engines, such as those in railroad locomotives and agricultural machinery. Products known as No. 1, No. 2, and No. 4 fuel oils are used primarily for space heating and **electricity generation**.

Dry Hole: An exploratory or development well found to be incapable of producing either oil or gas in sufficient quantities to justify completion as an oil or gas well.

Dry Natural Gas Production: See Natural Gas (Dry) Production.

E85: A fuel containing a mixture of 85 percent **ethanol** and 15 percent **motor gasoline**.

Electric Power Plant: A station containing prime movers, electric generators, and auxiliary equipment for converting mechanical, chemical, and/or fission energy into electric energy.

Electric Power Sector: An energy-consuming sector that consists of electricity-only and combined-heat-and-power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public-i.e., North American Industry Classification System 22 plants. See also Combined-Heat-and-Power (CHP) Plant, Electricity-Only Plant, Electric Utility, and Independent Power Producer.

Electric Utility: Any entity that generates, transmits, or distributes electricity and recovers the cost of its generation, transmission or distribution assets and operations, either directly or indirectly, through cost-based rates set by a separate regulatory authority (e.g., State Public Service Commission), or is owned by a governmental unit or the consumers that the entity serves. Examples of these entities include: investor-owned entities, public power districts, public utility districts, municipalities, rural electric cooperatives, and state and federal agencies. Electric utilities may have Federal Energy Regulatory Commission approval for interconnection agreements and wholesale trade tariffs covering either cost-of-service and/or market-based rates under the authority of the Federal Power Act. See Electric Power Sector.

Electrical System Energy Losses: The amount of energy lost during generation, transmission, and distribution of electricity, including plant and unaccounted-for uses.

Electricity: A form of energy characterized by the presence and motion of elementary charged particles generated by friction, induction, or chemical change.

Electricity Generation: The process of producing electric energy, or the amount of electric energy produced by transforming other forms of energy, commonly expressed in **kilowatthours** (kWh) or megawatthours (Mwh).

Electricity Generation, Gross: The total amount of electric energy produced by generating units and measured at the generating terminal in **kilowatthours** (kWh) or megawatthours (MWh).

Electricity Generation, Net: The amount of gross electricity generation less station use (the electric energy consumed at the generating station(s) for station service or auxiliaries). *Note*: Electricity required for pumping at hydroelectric pumped-storage plants is regarded as electricity for station service and is deducted from gross generation.

Electricity-Only Plant: A plant designed to produce electricity only. See also Combined-Heat-and-Power (CHP) Plant.

Electricity Retail Sales: The amount of electricity sold to customers purchasing electricity for their own use and not for resale.

End-Use Sectors: The **residential**, **commercial**, **industrial**, and **transportation** sectors of the economy.

Energy: The capacity for doing work as measured by the capability of doing work (potential energy) or the conversion of this capability to motion (kinetic energy). Energy has several forms, some of which are easily convertible and can be changed to another form useful for work. Most of the world's convertible energy comes from fossil fuels that are burned to produce heat that is then used as a transfer medium to mechanical or other means in order to accomplish tasks. Electrical energy is usually measured in kilowatthours, while heat energy is usually measured in British thermal units.

Energy Consumption: The use of energy as a source of heat or power or as an input in the manufacturing process.

Energy Service Provider: An energy entity that provides service to a retail or end-use customer.

Energy-Use Sectors: A group of major energy-consuming components of U.S. society developed to measure and analyze energy use. The sectors most commonly referred to in EIA are: **residential**, **commercial**, **industrial**, **transportation**, and **electric power**.

Ethane (C_2H_6): A straight-chain saturated (paraffinic) hydrocarbon extracted predominantly from the natural gas stream, which is gaseous at standard temperature and pressure. It is a colorless gas that boils at a temperature of -127 degrees Fahrenheit. See Paraffinic Hydrocarbons.

Ethanol (C_2H_5OH): A clear, colorless, flammable alcohol. Ethanol is typically produced biologically from biomass feedstocks such as agricultural crops and cellulosic residues from agricultural crops or wood. Ethanol can also be produced chemically from ethylene. See Biomass, Fuel Ethanol, and Fuel Ethanol Minus Denaturant.

Ether: A generic term applied to a group of organic chemical compounds composed of carbon, **hydrogen**, and oxygen, characterized by an oxygen atom attached to two carbon atoms (e.g., **methyl tertiary butyl ether**).

Ethylene (C₂H₄): An olefinic hydrocarbon recovere from refinery or petrochemical processes, which is gaseous at standard temperature and pressure. Ethylene is used as a petrochemical feedstock for many chemical applications and the production of consumer goods. See Olefinic Hydrocarbons (Olefins).

Exploratory Well: A well drilled to find and produce oil or gas in an area previously considered an unproductive area, to find a new reservoir in a known field (i.e., one previously found to be producing oil or gas in another reservoir), or to extend the limit of a known oil or gas reservoir.

Exports: Shipments of goods from within the 50 states and the District of Columbia to U.S. possessions and territories or to foreign countries.

Federal Energy Administration (FEA): A predecessor of the U.S. Energy Information Administration.

Federal Energy Regulatory Commission (FERC): The Federal agency with jurisdiction over interstate electricity sales, wholesale electric rates, hydroelectric licensing, natural gas pricing, oil pipeline rates, and gas pipeline certification. FERC is an independent regulatory agency within the U.S. Department of Energy and is the successor to the Federal Power Commission.

Federal Power Commission (FPC): The predecessor agency of the Federal Energy Regulatory Commission. The Federal Power Commission was created by an Act of Congress under the Federal Water Power Act on June 10, 1920. It was charged originally with regulating the electric power and natural gas industries. It was abolished on September 30, 1977, when the U.S. Department of Energy was created. Its functions were divided between the U.S. Department of Energy and the Federal Energy Regulatory Commission, an independent regulatory agency.

First Purchase Price: The price for domestic crude oil reported by the company that owns the crude oil the first time it is removed from the lease boundary.

Flared Natural Gas: Natural gas burned in flares on the base site or at gas processing plants.

F.O.B. (Free on Board): A sales transaction in which the seller makes the product available for pick up at a specified port or terminal at a specified price and the buyer pays for the subsequent transportation and insurance.

Footage Drilled: Total footage for wells in various categories, as reported for any specified period, includes (1) the deepest total depth (length of well bores) of all wells drilled from the surface, (2) the total of all bypassed footage drilled in connection with reported wells, and (3) all new footage drilled for directional sidetrack wells. Footage reported for directional sidetrack wells does not include footage in the common bore, which is reported as footage for the original well. In the case of old wells drilled deeper, the reported footage is that which was drilled below the total depth of the old well.

Former U.S.S.R.: See Union of Soviet Socialist Republics (U.S.S.R.).

Fossil Fuel: An energy source formed in the Earth's crust from decayed organic material, such as **petroleum**, **coal**, and **natural gas**.

Fossil-Fueled Steam-Electric Power Plant: An electricity generation plant in which the prime mover is a turbine rotated by high-pressure steam produced in a boiler by heat from burning fossil fuels.

Fuel Ethanol: Ethanol intended for fuel use. Fuel ethanol in the United States must be anhydrous (less than 1 percent water). Fuel ethanol is denatured (made unfit for human consumption), usually prior to transport from the ethanol production facility, by adding 2 to 5 volume percent petroleum, typically pentanes plus or conventional motor gasoline. Fuel ethanol is used principally for blending in low concentrations with motor gasoline as an oxygenate or octane enhancer. In high concentrations, it is used to fuel alternative-fuel vehicles specially designed for its use. See Alternative-Fuel Vehicle, Denaturant, E85, Ethanol, Fuel Ethanol Minus Denaturant, and Oxygenates.

Fuel Ethanol Minus Denaturant: An unobserved quantity of anhydrous, biomass-derived, undenatured ethanol for fuel use. The quantity is obtained by subtracting the estimated denaturant volume from fuel ethanol volume. Fuel ethanol minus denaturant is counted as renewable energy, while denaturant is counted as nonrenewable fuel. See Denaturant, Ethanol, Fuel Ethanol, Nonrenewable Fuels, Oxygenates, and Renewable Energy.

Full-Power Operation: Operation of a nuclear generating unit at 100 percent of its design capacity. Full-power operation precedes commercial operation.

Gasohol: A blend of finished motor gasoline containing alcohol (generally **ethanol** but sometimes methanol) at a concentration between 5.7 percent and 10 percent by volume. See **Motor Gasoline**, **Oxygenated**.

Gas Well: A well completed for the production of **natural gas** from one or more gas zones or reservoirs. (Wells producing both **crude oil** and natural gas are classified as oil wells.)

Geothermal Energy: Hot water or steam extracted from geothermal reservoirs in the earth's crust and used for geothermal heat pumps, water heating, or electricity generation.

Global Warming: An increase in the near-surface temperature of the Earth. Global warming has occurred in the distant past as the result of natural influences, but the term is today most often used to refer to the warming some scientists predict will occur as a result of increased anthropogenic emissions of greenhouse gases. See Climate Change.

Global Warming Potential (GWP): An index used to compare the relative radiative forcing of different gases without directly calculating the changes in atmospheric concentrations. GWPs are calculated as the ratio of the radiative forcing that would result from the emission of one kilogram of a greenhouse gas to that from the emission of one kilogram of carbon dioxide over a fixed period of time, such as 100 years.

Greenhouse Gases: Those gases, such as water vapor, **carbon dioxide**, nitrous oxide, **methane**, hydrofluorocarbons (HFCs), perfluorocarbons (PFCs) and sulfur hexafluoride, that are transparent to solar (short-wave) radiation but opaque to long-wave (infrared) radiation, thus preventing long-wave radiant energy from leaving Earth's atmosphere. The net effect is a trapping of absorbed radiation and a tendency to warm the planet's surface.

Gross Domestic Product (GDP): The total value of goods and services produced by labor and property located in the United States. As long as the labor and property are located in the United States, the supplier (that is, the workers and, for property, the owners) may be either U.S. residents or residents of foreign countries.

GT/IC: Gas turbine and internal combustion plants.

Heat Content: The amount of heat energy available to be released by the transformation or use of a specified physical unit of an energy form (e.g., a ton of coal, a barrel of oil, a kilowatthour of electricity, a cubic foot of natural gas,

or a pound of steam). The amount of heat energy is commonly expressed in **British thermal units (Btu)**. *Note*: Heat content of combustible energy forms can be expressed in terms of either gross heat content (higher or upper heating value) or net heat content (lower heating value), depending upon whether or not the available heat energy includes or excludes the energy used to vaporize water (contained in the original energy form or created during the combustion process). The U.S. Energy Information Administration typically uses gross heat content values.

Heat Rate: A measure of generating station thermal efficiency commonly stated as **Btu** per **kilowatthour**. *Note:* Heat rates can be expressed as either gross or net heat rates, depending whether the electricity output is gross or net generation. Heat rates are typically expressed as net heat rates.

Hydrocarbon: An organic chemical compound of **hydrogen** and carbon in the gaseous, liquid, or solid phase. The molecular structure of hydrocarbon compounds varies from the simplest (**methane**, the primary constituent of **natural gas**) to the very heavy and very complex.

Hydrocarbon Gas Liquids (HGL): A group of hydrocarbons including ethane, propane, normal butane, isobtane, and natural gasoline, and their associated olefins, including ethylene, propylene, butylene, and isobutylene. As marketed products, HGL represents all natural gas liquids (NGL) and olefins. EIA reports production of HGL from refineries (liquefied refinery gases, or LRG) and natural gas plants (natural gas plant liquids, or NGPL). Excludes liquefied natural gas (LNG). See Olefinic Hydrocarbons (Olefins).

Hydroelectric Power: The production of electricity from the kinetic energy of falling water.

Hydroelectric Power Plant: A plant in which the turbine generators are driven by falling water.

Hydroelectric Pumped Storage: Hydroelectricity that is generated during peak load periods by using water previously pumped into an elevated storage reservoir during off-peak periods when excess generating capacity is available to do so. When additional generating capacity is needed, the water can be released from the reservoir through a conduit to turbine generators located in a power plant at a lower level.

Hydrogen (H): The lightest of all gases, hydrogen occurs chiefly in combination with oxygen in water. It also exists in acids, bases, **alcohols**, **petroleum**, and other **hydrocarbons**.

Imports: Receipts of goods into the 50 states and the District of Columbia from U.S. possessions and territories or from foreign countries.

Independent Power Producer: A corporation, person, agency, authority, or other legal entity or instrumentality that

owns or operates facilities for the generation of electricity for use primarily by the public, and that is not an **electric utility**.

Industrial Sector: An energy-consuming sector that consists of all facilities and equipment used for producing, processing, or assembling goods. The industrial sector encompasses the following types of activity: manufacturing (NAICS codes 31-33); agriculture, forestry, fishing and hunting (NAICS code 11); mining, including oil and gas extraction (NAICS code 21); and construction (NAICS code 23). Overall energy use in this sector is largely for process heat and cooling and powering machinery, with lesser amounts used for facility heating, air conditioning, and lighting. Fossil fuels are also used as raw material inputs to manufactured products. Note: This sector includes generators that produce electricity and/or useful thermal output primarily to support the above-mentioned industrial activities. Various EIA programs differ in sectoral coverage-for more information

http://www.eia.gov/neic/datadefinitions/Guideforwebind.htm. See End-Use Sectors and Energy-Use Sectors.

Injections (Natural Gas): Natural gas injected into storage reservoirs.

Isobutane (C_4H_{10}): A branch-chain saturated (paraffinic) **hydrocarbon** extracted from both **natural gas** and **refiery gas** streams, which is gaseous at standard temperature and pressure. It is a colorless gas that boils at a temperature of 11 degrees Fahrenheit. See **Paraffinic Hydrocarbons**.

Isobutylene (C_4H_8): A branch-chain olefinic **hydrocabon** recovered from refinery or petrochemical processes, which is gaseous at standard temperature and pressure. Isobutlene is used in the production of gasoline and various petrochemical products. See **Olefinic Hydrocarbons** (**Olefins**).

Isopentane (C₅H₁₂): A saturated branched-chain **hydrcar-bon** obtained by fractionation of **natural gasoline** or isomerization of normal pentane.

Jet Fuel: A refined petroleum product used in jet aircraft engines. See Jet Fuel, Kerosene-Type and Jet Fuel, Naphtha-Type.

Jet Fuel, Kerosene-Type: A **kerosene**-based product with a maximum distillation temperature of 400° F at the 10-percent recovery point and a final maximum boiling point of 572° F. Fuel specifications are provided in ASTM Specification D 1655 and Military Specifications MIL-T-5624P and MIL-T-83133D (Grades JP-5 and JP-8). It is used primarily for commercial turbojet and turboprop aircraft engines.

Jet Fuel, Naphtha-Type: A fuel in the heavy **naphtha** boiling range, with an average gravity of 52.8 degrees API, 20 to 90 percent distillation temperatures of 290° to 470° F and meeting Military Specification MIL-T-5624L

(Grade JP-4). It is used by the military for turbojet and turboprop engines.

Kerosene: A light **petroleum** distillate that is used in space heaters, cook stoves, and water heaters and is suitable for use as a light source when burned in wick-fed lamps. Kerosene has a maximum distillation temperature of 400 degrees Fahrenheit at the 10-percent recovery point, a final boiling point of 572 degrees Fahrenheit, and a minimum flash point of 100 degrees Fahrenheit. Included are No. 1-K and No. 2-K, the two grades recognized by ASTM Specification D 3699 as well as all other grades of kerosene called range or stove oil, which have properties similar to those of No. 1 fuel oil. See **Jet Fuel, Kerosene-Type**.

Kilowatt: A unit of electrical power equal to 1,000 watts.

Kilowatthour (kWh): A measure of electricity defined as a unit of work or energy, measured as 1 **kilowatt** (1,000 **watts**) of power expended for 1 hour. One kilowatthour is equivalent to 3,412 Btu. See **Watthour**.

Landed Costs: The dollar-per-barrel price of crude oil at the port of discharge. Included are the charges associated with the purchase, transporting, and insuring of a cargo from the purchase point to the port of discharge. Not included are charges incurred at the discharge port (e.g., import tariffs or fees, wharfage charges, and demurrage charges).

Lease and Plant Fuel: Natural gas used in well, field, and lease operations (such as gas used in drilling operations, heaters, dehydrators, and field compressors) and used as fuel in natural gas processing plants.

Lease Condensate: Light liquid hydrocarbons recovered from lease separators or field facilities at associated and non-associated natural gas wells. Mostly pentanes and heavier hydrocarbons. Normally enters the crude oil stream after production.

Lignite: The lowest rank of **coal**, often referred to as brown coal, used almost exclusively as fuel for steam-electric power generation. It is brownish-black and has a high inherent moisture content, sometimes as high as 45 percent. The heat content of lignite ranges from 9 to 17 million **Btu** per **short ton** on a moist, mineral-matter-free basis. The heat content of lignite consumed in the United States averages 13 million Btu per short ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter).

Liquefied Natural Gas (LNG): Natural gas (primarily **methane**) that has been liquefied by reducing its temperature to "-260 degrees Fahrenheit at atmospheric pressure.

Liquefied Petroleum Gases (LPG): A group of hydrocarbon gases, primarily propane, normal butane, and isobutane, derived from crude oil refining or natural gas processing. These gases may be marketed individually or

mixed. They can be liquefied through pressurization (without requiring cryogenic refrigeration) for convenience of transportation or storage. Excludes **ethane** and **olefins**. Note: In some EIA publications, LPG includes ethane and marketed refinery olefin streams, in accordance with definitions used prior to January 2014.

Liquefied Refinery Gases (LRG): Hydrocarbon gas liquids produced in refineries from processing of crude oil and unfinished oils. They are retained in the liquid state through pressurization and/or refrigeration. The reported categories include ethane, propane, normal butane, isobutane, and refinery olefins (ethylene, propylene, butylene, and isobutylene).

Low-Power Testing: The period of time between a nuclear generating unit's initial fuel loading date and the issuance of its operating (full-power) license. The maximum level of operation during that period is 5 percent of the unit's design thermal rating.

Lubricants: Substances used to reduce friction between bearing surfaces or as process materials either incorporated into other materials used as processing aids in the manufacturing of other products or as carriers of other materials. Petroleum lubricants may be produced either from distillates or residues. Other substances may be added to impart or improve certain required properties. Excluded are byproducts of lubricating oil refining, such as aromatic extracts derived from solvent extraction or tars derived from deasphalting. Included are all grades of lubricating oils from spindle oil to cylinder oil and those used in greases. Lubricant categories are paraffinic and naphthenic.

Marketed Production (Natural Gas): See Natural Gas Marketed Production.

Methane (CH₄): A colorless, flammable, odorless hydrocarbon gas which is the major component of natural gas. It is also an important source of hydrogen in various industrial processes. Methane is a greenhouse gas. See Greenhouse Gases.

Methyl Tertiary Butyl Ether (MTBE) ((CH₃)₃COCH₃): An ether intended for gasoline blending. See Motor Gasoline Blending and Oxygenates.

Methanol (CH₃OH): A light, volatile alcohol eligible for gasoline blending. See Motor Gasoline Blending and Oxygenates.

Miscellaneous Petroleum Products: All finished petroleum products not classified elsewhere—for example, petrolatum, lube refining byproducts (aromatic extracts and tars), absorption oils, ram-jet fuel, petroleum rocket fuels, synthetic natural gas feedstocks, and specialty oils.

Motor Gasoline Blending: Mechanical mixing of motor gasoline blending components and oxygenates as required, to produce finished motor gasoline. Finished motor

gasoline may be further mixed with other motor gasoline blending components or oxygenates, resulting in increased volumes of finished motor gasoline and/or changes in the formulation of finished motor gasoline (e.g., conventional motor gasoline mixed with MTBE to produce oxygenated motor gasoline).

Motor Gasoline Blending Components: Naphtha (e.g., straight-run gasoline, alkylate, reformate, benzene, toluene, xylene) used for blending or compounding into finished motor gasoline. These components include reformulated gasoline blendstock (RBOB) but exclude oxygenates (alcohols, ethers), butane, and pentanes plus. *Note*: oxygenates are reported as individual components and are included in the total for other hydrocarbons, hydrogens, and oxygenates.

Motor Gasoline, Conventional: Finished motor gasoline not included in the oxygenated or reformulated motor gasoline categories. *Note*: This category excludes reformulated gasoline blendstock for oxygenate blending (RBOB) as well as other blendstock. Conventional motor gasoline can be leaded or unleaded; regular, midgrade, or premium. See Motor Gasoline Grades.

Motor Gasoline, Finished: A complex mixture of reltively volatile hydrocarbons with or without small quantities of additives, blended to form a fuel suitable for use in sparkignition engines. Motor gasoline, as defined in ASTM Specification D 4814 or Federal Specification VV-G-1690C, is characterized as having a boiling range of 122 to 158 degrees Fahrenheit at the 10 percent recovery point to 365 to 374 degrees Fahrenheit at the 90 percent recovery point. Motor gasoline includes conventional gasoline; all types of oxygenated gasoline, including gasohol; and reformulated gasoline, but excludes aviation gasoline. Note: Volumetric data on blending components, such as oxygenates, are not counted in data on finished motor gasoline until the blending components are blended into the gasoline. See Motor Gasoline, Conventional; Motor Gasoline, Oxygenated; and Motor Gasoline, Reformulated.

Motor Gasoline Grades: The classification of gasoline by octane ratings. Each type of gasoline (conventional, oxygenated, and reformulated) is classified by three grades: regular, midgrade, and premium. *Note*: Gasoline sales are reported by grade in accordance with their classification at the time of sale. In general, automotive octane requirements are lower at high altitudes. Therefore, in some areas of the United States, such as the Rocky Mountain States, the octane ratings for the gasoline grades may be 2 or more octane points lower.

Regular Gasoline: Gasoline having an antiknock index, i.e., octane rating, greater than or equal to 85 and less than 88. Note: Octane requirements may vary by altitude. See **Motor Gasoline Grades**.

Midgrade Gasoline: Gasoline having an antiknock index, i.e., octane rating, greater than or equal to 88 and less than or equal to 90. Note: Octane requirements may vary by altitude. See **Motor Gasoline Grades**.

Premium Gasoline: Gasoline having an antiknock index, i.e., octane rating, greater than 90. Note: Octane requirements may vary by altitude. See **Motor Gasoline Grades**.

Motor Gasoline, Oxygenated: Finished motor gasoline, other than reformulated gasoline, having an oxygen content of 2.7 percent or higher by weight and required by the U.S. Environmental Protection Agency (EPA) to be sold in areas designated by EPA as carbon monoxide (CO) nonattainment areas. Note: Oxygenated gasoline excludes oxygenated fuels program reformulated gasoline (OPRG) and reformulated gasoline blendstock for oxygenate blending (RBOB). Data on gasohol that has at least 2.7 percent oxygen, by weight, and is intended for sale inside CO nonattainment areas are included in data on oxygenated gasoline. Other data on gasohol are included in data on conventional gasoline.

Motor Gasoline, Reformulated: Finished motor gasoline formulated for use in motor vehicles, the composition and properties of which meet the requirements of the reformulated gasoline regulations promulgated by the U.S. Environmental Protection Agency under Section 211(k) of the Clean Air Act. Note: This category includes oxygenated fuels program reformulated gasoline (OPRG) but excludes reformulated gasoline blendstock for oxygenate blending (RBOB).

Motor Gasoline Retail Prices: Motor gasoline prices calculated each month by the Bureau of Labor Statistics (BLS) in conjunction with the construction of the Consumer Price Index (CPI). Those prices are collected in 85 urban areas selected to represent all urban consumersabout 80 percent of the total U.S. population. The service stations are selected initially, and on a replacement basis, in such a way that they represent the purchasing habits of the CPI population. Service stations in the current sample include those providing all types of service (i.e., full-, mini-, and self-service.

Motor Gasoline (Total): For stock level data, a sum including finished motor gasoline stocks plus stocks of motor gasoline blending components but excluding stocks of oxygenates.

MTBE: See Methyl Tertiary Butyl Ether.

NAICS (North American Industry Classification System): A coding system developed jointly by the United States, Canada, and Mexico to classify businesses and industries according to the type of economic activity in which they are engaged. NAICS replaces the Standard Industrial Classification (SIC) codes. For additional information on NAICS, go to

http://www.census.gov/eos/www/naics/.

Naphtha: A generic term applied to a refined or partially refined **petroleum** fraction with an approximate boiling range between 122 degrees and 400 degrees Fahrenheit.

Natural Gas: A gaseous mixture of **hydrocarbon** compounds, primarily **methane**, used as a fuel for **electricity generation** and in a variety of ways in buildings, and as raw material input and fuel for industrial processes.

Natural Gas, Dry: Natural gas which remains after: 1) the liquefiable **hydrocarbon** portion has been removed from the gas stream (i.e., gas after lease, field, and/or plant separation); and 2) any volumes of **nonhydrocarbon gases** have been removed where they occur in sufficient quantity to render the gas unmarketable. *Note:* Dry natural gas is also known as consumer-grade natural gas. The parameters for measurement are cubic feet at 60 degrees Fahrenheit and 14.73 pounds per square inch absolute.

Natural Gas (Drv) Production: The process of producing consumer-grade natural gas. Natural gas withdrawn from reservoirs is reduced by volumes used at the production (lease) site and by processing losses. Volumes used at the production site include 1) the volume returned to reservoirs in cycling, repressuring of oil reservoirs, and conservation operations; and 2) vented natural gas and flared natural gas. Processing losses include 1) nonhydrocarbon gases (e.g., water vapor, carbon dioxide, helium, hydrogen sulfide, and nitrogen) removed from the gas stream; and 2) gas converted to liquid form, such as lease condensate and natural gas plant liquids. Volumes of dry gas withdrawn from gas storage reservoirs are not considered part of production. Dry natural gas production equals natural gas marketed production less natural gas plant liquids production.

Natural Gas Marketed Production: Gross withdrawals of natural gas from production reservoirs, less gas used for reservoir repressuring; nonhydrocarbon gases removed in treating and processing operations; and quantities of vented natural gas and flared natural gas.

Natural Gas Liquids (NGL): A group of hydrocarbons including ethane, propane, normal butane, isobutane, and natural gasoline. Generally include natural gas plant liquids and all liquefied refinery gases except olefins. See Paraffinic Hydrocarbons.

Natural Gas Plant Liquids (NGPL): Those hydrocarbons in natural gas that are separated as liquids at natural gas processing, fractionating, and cycling plants. Products obtained include ethane, liquefied petroleum gases (propane,normal butane, and isobutane), and natural gasoline. Component products may be fractionated or mixed. Lease condensate and plant condensate are excluded. Note: Some EIA publications categorize NGPL production as field production, in accordance with definitions used prior to January 2014.

Natural Gas Wellhead Price: The wellhead price of natural gas is calculated by dividing the total reported value at the wellhead by the total quantity produced as reported by the appropriate agencies of individual

producing states and the U.S. Minerals Management Service. The price includes all costs prior to shipment from the lease, including gathering and compression costs, in addition to state production, severance, and similar charges.

Natural Gasoline: A commodity product commonly traded in **natural gas liquids** (NGL) markets that comprises liquid **hydrocarbons** (mostly pentanes and hexanes) and generally remains liquid at ambient temperatures and atmospheric pressure. Natural gasoline is equivalent to **pentanes plus**.

Net Summer Capacity: The maximum output, commonly expressed in **kilowatts** (kW) or megawatts (MW), that generating equipment can supply to system load, as demonstrated by a multi-hour test, at the time of summer peak demand (period of June 1 through September 30). This output reflects a reduction in capacity due to electricity use for station service or auxiliaries.

Neutral Zone: A 6,200 square-mile area shared equally between Kuwait and Saudi Arabia under a 1992 agreement. The Neutral Zone contains an estimated 5 billion barrels of oil and 8 trillion cubic feet of natural gas.

Nominal Dollars: A measure used to express **nominal price**.

Nominal Price: The price paid for a product or service at the time of the transaction. Nominal prices are those that have not been adjusted to remove the effect of changes in the purchasing power of the dollar; they reflect buying power in the year in which the transaction occurred.

Non-Biomass Waste: Material of non-biological origin that is a byproduct or a discarded product. "Non-biomass waste" includes municipal solid waste from non-biogenic sources, such as plastics, and tire-derived fuels.

Nonhydrocarbon Gases: Typical nonhydrocarbon gases that may be present in reservoir **natural gas** are **carbon dioxide**, helium, hydrogen sulfide, and nitrogen.

Nonrenewable Fuels: Fuels that cannot be easily made or "renewed," such as **crude oil**, **natural gas**, and **coal**.

Normal Butane (C_4H_{10}): A straight-chain saturated (paraffinic) hydrocarbon extracted from both natural gas and refinery gas streams, which is gaseous at standard temperature and pressure. It is a colorless gas that boils at a temperature of 31 degrees Fahrenheit. See Paraffinic Hydrocarbons.

Nuclear Electric Power (Nuclear Power): Electricity generated by the use of the thermal energy released from the fission of nuclear fuel in a reactor.

Nuclear Electric Power Plant: A single-unit or multiunit facility in which heat produced in one or more reactors by

the fissioning of nuclear fuel is used to drive one or more steam turbines.

Nuclear Reactor: An apparatus in which a nuclear fission chain reaction can be initiated, controlled, and sustained at a specific rate. A reactor includes fuel (fissionable material), moderating material to control the rate of fission, a heavy-walled pressure vessel to house reactor components, shielding to protect personnel, a system to conduct heat away from the reactor, and instrumentation for monitoring and controlling the reactor's systems.

OECD: See Organization for Economic Cooperation and Development.

Offshore: That geographic area that lies seaward of the coastline. In general, the coastline is the line of ordinary low water along with that portion of the coast that is in direct contact with the open sea or the line marking the seaward limit of inland water.

Oil: See Crude Oil.

Olefins: See Olefinic Hydrocarbons (Olefins).

Olefinic Hydrocarbons (Olefins): Unsaturated hydrocarbon compounds with the general formula C_nH_{2n} containing at least one carbon-to-carbon double-bond. Olefins are produced at crude oil refineries and petrochemical plants and are not naturally occurring constituents of oil and natural gas. Sometimes referred to as alkenes or unsaturated hydrocarbons. Excludes aromatics.

OPEC: See **Organization** of the **Petroleum Exporting** Countries.

Operable Unit (Nuclear): In the United States, a nuclear generating unit that has completed low-power testing and been issued a full-power operating license by the Nuclear Regulatory Commission, or equivalent permission to operate.

Organization for Economic Cooperation and Development (OECD): An international organization helping governments tackle the economic, social and governance challenges of a globalized economy. Its membership comprises about 30 member countries. With active relationships with some 70 other countries, non-governmental organizations (NGOs) and civil society, it has a global reach. For details about the organization, see http://www.oecd.org.

Organization of the Petroleum Exporting Countries (OPEC): An intergovernmental organization whose stated objective is to "coordinate and unify the petroleum policies of member countries." It was created at the Baghdad Conference on September 10–14, 1960. Current members (with years of membership) include Algeria (1969–present), Angola (2007–present), Ecuador (1973–1992 and 2007–present), Iran (1960–present), Iraq (1960–present),

Kuwait (1960–present), Libya (1962–present), Nigeria (1971–present), Qatar (1961–present), Saudi Arabia (1960–present), United Arab Emirates (1967–present), and Venezuela (1960–present). Countries no longer members of OPEC include Gabon (1975–1994) and Indonesia (1962–2008).

Oxygenates: Substances which, when added to gasoline, increase the amount of oxygen in that gasoline blend. Ethanol, Methyl Tertiary Butyl Ether (MTBE), Ethyl Tertiary Butyl Ether (ETBE), and methanol are common oxygenates.

PAD Districts: Petroleum Administration for Defense Districts. Geographic aggregations of the 50 states and the District of Columbia into five districts for the Petroleum Administration for Defense in 1950. The districts were originally instituted for economic and geographic reasons as Petroleum Administration for War (PAW) Districts, which were established in 1942.

Paraffinic Hydrocarbons: Saturated **hydrocarbon** compounds with the general formula C_nH_{2n+2} containing only single bonds. Sometimes referred to as alkanes or **natural gas liquids**.

Pentanes Plus: A mixture of liquid **hydrocarbons**, mostly pentanes and heavier, extracted from **natural gas** in a gas processing plant. Pentanes plus is equivalent to **natural gasoline**.

Petrochemical Feedstocks: Chemical feedstocks derived from refined or partially refined **petroleum** fractions, principally for use in the manufacturing of chemicals, synthetic rubber, and a variety of plastics.

Petroleum: A broadly defined class of liquid hydrocarbon mixtures. Included are crude oil, lease condensate, unfinished oils, refined products obtained from the processing of crude oil, and natural gas plant liquids. Note: Volumes of finished petroleum products include nonhydrocarbon compounds, such as additives and detergents, after they have been blended into the products.

Petroleum Coke: See Coke, Petroleum.

Petroleum Consumption: See Products Supplied (Petroleum).

Petroleum Imports: Imports of petroleum into the 50 states and the District of Columbia from foreign countries and from Puerto Rico, the Virgin Islands, and other U.S. territories and possessions. Included are imports for the Strategic Petroleum Reserve and withdrawals from bonded warehouses for onshore consumption, offshore bunker use, and military use. Excluded are receipts of foreign petroleum into bonded warehouses and into U.S. territories and U.S. Foreign Trade Zones.

Petroleum Products: Products obtained from the processing of crude oil (including lease condensate), natural gas, and other hydrocarbon compounds. Petroleum products include unfinished oils, liquefied petroleum gases, pentanes plus, aviation gasoline, motor gasoline, naphtha-type jet fuel, kerosene-type jet fuel, kerosene, distillate fuel oil, residual fuel oil, petrochemical feedstocks, special naphthas, lubricants, waxes, petroleum coke, asphalt, road oil, still gas, and miscellaneous products.

Petroleum Stocks, Primary: For individual products, quantities that are held at refineries, in pipelines, and at bulk terminals that have a capacity of 50,000 barrels or more, or that are in transit thereto. Stocks held by product retailers and resellers, as well as tertiary stocks held at the point of consumption, are excluded. Stocks of individual products held at gas processing plants are excluded from individual product estimates but are included in other oils estimates and total.

Photovoltaic Energy: Direct-current electricity generated from sunlight through solid-state semiconductor devices that have no moving parts.

Pipeline Fuel: Gas consumed in the operation of pipelines, primarily in compressors.

Plant Condensate: Liquid **hydrocarbons** recovered at inlet separators or scrubbers in **natural gas** processing plants at atmospheric pressure and ambient temperatures. Mostly pentanes and heavier hydrocarbons.

Primary Energy: Energy in the form that it is first accounted for in a statistical energy balance, before any transformation to secondary or tertiary forms of energy. For example, **coal** can be converted to synthetic gas, which can be converted to **electricity**; in this example, coal is primary energy, synthetic gas is secondary energy, and electricity is tertiary energy. See **Primary Energy Production** and **Primary Energy Consumption**.

Primary Energy Consumption: Consumption of primary energy. (Energy sources that are produced from other energy sources—e.g., coal coke from coal—are included in primary energy consumption only if their energy content has not already been included as part of the original energy source. Thus, U.S. primary energy consumption does include net imports of coal coke, but not the coal coke produced from domestic coal.) The U.S. Energy Information Administration includes the following in U.S. primary energy consumption: coal consumption; coal coke net imports; petroleum consumption (petroleum products supplied, including natural gas plant liquids and crude oil burned as fuel); dry natural gas—excluding supplemental gaseous fuels—consumption; nuclear electricity net generation (converted to Btu using the nuclear plants heat rate); conventional hydroelectricity net generation (converted to Btu using the

fossil-fueled plants heat rate); **geothermal** electricity net generation (converted to Btu using the fossil-fueled plants heat rate), and geothermal heat pump energy and geothermal direct use energy; **solar thermal** and **photovoltaic** electricity net generation (converted to Btu using the fossil-fueled plants heat rate), and solar thermal direct use energy; **wind** electricity net generation (converted to Btu using the fossil-fueled plants heat rate); **wood and wood-derived fuels** consumption; **biomass waste** consumption; **fuel ethanol** and **biodiesel** consumption; losses and co-products from the production of fuel ethanol and biodiesel; and electricity net imports (converted to Btu using the electricity heat content of 3,412 Btu per kilowatthour). See **Total Energy Consumption**.

Primary Energy Production: Production of primary The U.S. Energy Information Administration includes the following in U.S. primary energy production: coal production, waste coal supplied, and coal refuse recovery; crude oil and lease condensate production; natural gas plant liquids production; dry natural gas—excluding supplemental gaseous fuels—production; nuclear electricity net generation (converted to Btu using the nuclear plants heat rate); conventional hydroelectricity net generation (converted to Btu using the fossil-fueled plants heat rate); geothermal electricity net generation (converted to Btu using the fossil-fueled plants heat rate), and geothermal heat pump energy and geothermal direct use energy; solar thermal and photovoltaic electricity net generation (converted to Btu using the fossil-fueled plants heat rate), and solar thermal direct use energy; wind electricity net generation (converted to Btu using the fossil-fueled plants heat rate); wood and woodderived fuels consumption; biomass waste consumption; and biofuels feedstock.

Prime Mover: The engine, turbine, water wheel, or similar machine that drives an electric generator; or, for reporting purposes, a device that converts energy to electricity directly.

Products Supplied (Petroleum): Approximately represents consumption of petroleum products because it measures the disappearance of these products from primary sources, i.e., refineries, natural gas-processing plants, blending plants, pipelines, and bulk terminals. In general, product supplied of each product in any given period is computed as follows: field production, plus refinery production, plus imports, plus unaccounted-for crude oil (plus net receipts when calculated on a PAD District basis) minus stock change, minus crude oil losses, minus refinery inputs, and minus exports.

Propane (C₃H₈): A straight-chain saturated (paraffinic) **hydrocarbon** extracted from **natural gas** or **refinery gas** streams, which is gaseous at standard temperature and pressure. It is a colorless gas that boils at a temperature of -44 degrees Fahrenheit. It includes all products designated in ASTM Specification D1835 and Gas Processors Association specifications for commercial (HD-5) propane. See **Paraffinic Hydrocarbons**.

Propylene (C_3H_6): An olefinic **hydrocarbon** recovered from refinery or petrochemical processes, which is gaseous at standard temperature and pressure. Propylene is an important petrochemical feedstock. See **Olefinic Hydrocarbons** (**Olefins**).

Real Dollars: These are dollars that have been adjusted for inflation.

Real Price: A price that has been adjusted to remove the effect of changes in the purchasing power of the dollar. Real prices, which are expressed in constant dollars, usually reflect buying power relative to a base year.

Refiner Acquisition Cost of Crude Oil: The cost of crude oil to the refiner, including transportation and fees. The composite cost is the weighted average of domestic and imported crude oil costs.

Refinery and Blender Net Inputs: Raw materials, unfinished oils, and blending components processed at refineries, or blended at refineries or petroleum storage terminals to produce finished petroleum products. Included are gross inputs of crude oil, natural gas plant liquids, other hydrocarbon raw materials, hydrogen, oxygenates (excluding fuel ethanol), and renewable fuels (including fuel ethanol). Also included are net inputs of unfinished oils, motor gasoline blending components, and aviation gasoline blending components. Net inputs are calculated as gross inputs minus gross production. Negative net inputs indicate gross inputs are less than gross production. Examples of negative net inputs include reformulated gasoline blendstock for oxygenate blending (RBOB) produced at refineries for shipment to blending terminals, and unfinished oils produced and added to inventory in advance of scheduled maintenance of a refinery crude oil distillation unit.

Refinery and Blender Net Production: Liquefied refinery gases, and finished petroleum products produced at a refinery or petroleum storage terminal blending facility. Net production equals gross production minus gross inputs. Negative net production indicates gross production is less than gross inputs for a finished petroleum product. Examples of negative net production include reclassification of one finished product to another finished product, or reclassification of a finished product to unfinished oils or blending components.

Refinery Gas: Still gas consumed as refinery fuel.

Refinery (Petroleum): An installation that manufactures finished petroleum products from crude oil, unfinished oils, natural gas liquids, other hydrocarbons, and alcohol.

Refuse Mine: A surface site where **coal** is recovered from previously mined coal. It may also be known as a silt bank, culm bank, refuse bank, slurry dam, or dredge operation.

Refuse Recovery: The recapture of **coal** from a **refuse mine** or the coal recaptured by that process. The resulting product has been cleaned to reduce the concentration of noncombustible materials.

Renewable Diesel Fuel: See Biomass-Based Diesel Fuel and Renewable Diesel Fuel (Other).

Renewable Diesel Fuel (Other): Diesel fuel and diesel fuel blending components produced from renewable sources that are coprocessed with **petroleum** feedstocks and meet requirements of advanced biofuels. *Note*: This category "other" pertains to the petroleum supply data system. See **Biomass-Based Diesel Fuel**.

Renewable Energy: Energy obtained from sources that are essentially inexhaustible (unlike, for example, the fossil fuels, of which there is a finite supply). Renewable sources of energy include conventional hydrolectric power, biomass, geothermal, solar, and wind.

Renewable Fuels Except Fuel Ethanol: See Biomass-Based Diesel Fuel, Renewable Diesel Fuel (Other), and Renewable Fuels (Other).

Renewable Fuels (Other): Fuels and fuel blending components, except biomass-based diesel fuel, renewable diesel fuel (other), and fuel ethanol, produced from renewable biomass. *Note*: This category "other" pertains to the petroleum supply data system.

Repressuring: The injection of a pressurized fluid (such as air, gas, or water) into oil and gas reservoir formations to effect greater ultimate recovery.

Residential Sector: An energy-consuming sector that consists of living quarters for private households. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a variety of other appliances. The residential sector excludes institutional living quarters. *Note:* Various EIA programs differ in sectoral coverage for more information see

http://www.eia.gov/neic/datadefinitions/Guideforwebres.ht m. See End-Use Sectors and Energy-Use Sectors.

Residual Fuel Oil: A general classification for the heavier oils, known as No. 5 and No. 6 fuel oils, that remain after the distillate fuel oils and lighter hydrocarbons are distilled away in refinery operations. It conforms to ASTM Specifications D 396 and D 975and Federal Specification VV-F-815C. No. 5, a residual fuel oil of medium viscosity, is also known as Navy Special and is defined in Military Specification MIL-F-859E, including Amendment 2 (NATO Symbol F-770). It is used in steampowered vessels in government service and inshore power plants. No. 6 fuel oil includes Bunker C fuel oil and is used for the production of electric power, space heating, vessel bunkering, and various industrial purposes.

Road Oil: Any heavy petroleum oil, including residual asphaltic oil used as a dust palliative and surface treatment on roads and highways. It is generally produced in six grades, from 0, the most liquid, to 5, the most viscous.

Rotary Rig: A machine used for drilling wells that employs a rotating tube attached to a bit for boring holes through rock

Short Ton (Coal): A unit of weight equal to 2,000 pounds.

SIC (Standard Industrial Classification): A set of codes developed by the U.S. Office of Management and Budget which categorizes industries into groups with similar economic activities. Replaced by NAICS (North American Industry Classification System).

Solar Energy: See **Solar Thermal Energy** and **Photovoltaic Energy**.

Solar Thermal Energy: The radiant energy of the sun that can be converted into other forms of energy, such as heat or **electricity**.

Special Naphthas: All finished products within the **naphtha** boiling range that are used as paint thinners, cleaners, or solvents. These products are refined to a specified flash point. Special naphthas include all commercial hexane and cleaning solvents conforming to ASTM Specification D1836 and D484, respectively. Naphthas to be blended or marketed as motor gasoline or aviation gasoline, or that are to be used as petrochemical and synthetic natural gas (SNG) feedstocks are excluded.

Station Use: Energy that is used to operate an **electric power plant**. It includes energy consumed for plant lighting, power, and auxiliary facilities, regardless of whether the energy is produced at the plant or comes from another source.

Steam Coal: All nonmetallurgical coal.

Steam-Electric Power Plant: A plant in which the prime mover is a steam turbine. The steam used to drive the turbine is produced in a boiler where fossil fuels are burned.

Still Gas: Any form or mixture of gases produced in refineries by distillation, cracking, reforming, and other processes. The principal constituents are **methane** and **ethane**. May contain **hydrogen** and small/trace amounts of other gases. Still gas is typically consumed as refinery fuel or used as petrochemical feedstock. Still gas burned for refinery fuel may differ in composition from marketed still gas sold to other users. See **Refinery Gas**.

Stocks: See Coal Stocks, Crude Oil Stocks, or Petroleum Stocks, Primary.

Strategic Petroleum Reserve (SPR): Petroleum stocks maintained by the federal Government for use during periods of major supply interruption.

Subbituminous Coal: A coal whose properties range from those of lignite to those of bituminous coal and used primarily as fuel for steam-electric power generation. It may be dull, dark brown to black, soft and crumbly, at the lower end of the range, to bright, jet black, hard, and relatively strong, at the upper end. Subbituminous coal contains 20 to 30 percent inherent moisture by weight. The heat content of subbituminous coal ranges from 17 to 24 million Btu per short ton on a moist, mineral-matter-free basis. The heat content of subbituminous coal consumed in the United States averages 17 to 18 million Btu per ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter).

Supplemental Gaseous Fuels: Synthetic natural gas, propane-air, coke oven gas, still gas (refinery gas), biomass gas, air injected for Btu stabilization, and manufactured gas commingled and distributed with natural gas.

Synthetic Natural Gas (SNG): (Also referred to as substitute natural gas) A manufactured product, chemically similar in most respects to **natural gas**, resulting from the conversion or reforming of **hydrocarbons** that may easily be substituted for or interchanged with pipeline-quality natural gas.

Thermal Conversion Factor: A factor for converting data between physical units of measure (such as barrels, cubic feet, or short tons) and thermal units of measure (such as British thermal units, calories, or joules); or for converting data between different thermal units of measure. See Btu Conversion Factor.

Total Energy Consumption: Primary energy consumption in the end-use sectors, plus electricity retail sales and electrical system energy losses.

Transportation Sector: An energy-consuming sector that consists of all vehicles whose primary purpose is transporting people and/or goods from one physical location to another. Included are automobiles; trucks; buses; motorcycles; trains, subways, and other rail vehicles; aircraft; and ships, barges, and other waterborne vehicles. Vehicles whose primary purpose is not transportation (e.g., construction cranes and bulldozers, farming vehicles, and warehouse tractors and forklifts) are classified in the sector of their primary use. Note: Various EIA programs differ in sectoral coverage-for more information see

http://www.eia.gov/neic/datadefinitions/Guideforwebtrans.htm See End-Use Sectors and Energy-Use Sectors.

Underground Storage: The storage of **natural gas** in underground reservoirs at a different location from which it was produced.

Unfinished Oils: All oils requiring further processing, except those requiring only mechanical blending. Unfinished oils are produced by partial refining of **crude oil** and include

naphthas and lighter oils, **kerosene** and light gas oils, heavy gas oils, and residuum.

Unfractionated Streams: Mixtures of unsegregated **natral gas liquids** components, excluding those in **plant condesate**. This product is extracted from **natural gas**.

Union of Soviet Socialist Republics (U.S.S.R.): A political entity that consisted of 15 constituent republics: Armenia, Azerbaijan, Belarus, Estonia, Georgia, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, Moldova, Russia, Tajikistan, Turkmenistan, Ukraine, and Uzbekistan. The U.S.S.R. ceased to exist as of December 31, 1991.

United States: The 50 states and the District of Columbia. Note: The United States has varying degrees of jurisdiction over a number of territories and other political entities outside the 50 states and the District of Columbia, including Puerto Rico, the U.S. Virgin Islands, Guam, American Samoa, Johnston Atoll, Midway Islands, Wake Island, and the Northern Mariana Islands. EIA data programs may include data from some or all of these areas in U.S. totals. For these programs, data products will contain notes explaining the extent of geographic coverage included under the term "United States."

Useful Thermal Output: The thermal energy made available in a combined-heat-and-power system for use in any industrial or commercial process, heating or cooling application, or delivered to other end users, i.e., total thermal energy made available for processes and applications other than electrical generation.

U.S.S.R.: See Union of Soviet Socialist Republics (U.S.S.R.).

Vented Natural Gas: Natural gas released into the air on the production site or at processing plants.

Vessel Bunkering: Includes sales for the fueling of commercial or private boats, such as pleasure craft, fishing boats, tugboats, and ocean-going vessels, including vessels operated by oil companies. Excluded are volumes sold to the U.S. Armed Forces.

Waste Coal: Usable material that is a byproduct of previous coal processing operations. Waste coal is usually composed of mixed coal, soil, and rock (mine waste). Most waste coal is burned as-is in unconventional fluidized-bed combustors. For some uses, waste coal may be partially cleaned by removing some extraneous noncombustible constituents. Examples of waste coal include fine coal, coal obtained from a refuse bank or slurry dam, anthracite culm, bituminous gob, and lignite waste.

Waste: See Biomass Waste and Non-Biomass Waste.

Watt (W): The unit of electrical power equal to one ampere under a pressure of one volt. A watt is equal to 1/746 horse-power.

Watthour (Wh): The electrical energy unit of measure equal to one watt of power supplied to, or taken from, an electric circuit steadily for one hour.

Wax: A solid or semi-solid material consisting of a mixture of **hydrocarbons** obtained or derived from **petroleum** fractions, or through a Fischer-Tropsch type process, in which the straight- chained paraffin series predominates. This includes all marketable wax, whether crude or refined, with a congealing point (ASTM D 938) between 100 and 200 degrees Fahrenheit and a maximum oil content (ASTM D 3235) of 50 weight percent.

Wellhead Price: The value of crude oil or natural gas at the mouth of the well.

Wind Energy: Kinetic energy present in wind motion that can be converted to mechanical energy for driving

pumps, mills, and electric power generators.

Wood and Wood-Derived Fuels: Wood and products derived from wood that are used as fuel, including round wood (cord wood), limb wood, wood chips, bark, sawdust, forest residues, charcoal, paper pellets, railroad ties, utility poles, black liquor, red liquor, sludge wood, spent sulfite liquor, and other wood-based solids and liquids.

Working Gas: The quantity of natural gas in the reservoir that is in addition to the cushion or base gas. It may or may not be completely withdrawn during any particular withdrawal season. Conditions permitting, the total working capacity could be used more than once during any season. Volumes of working gas are reported in thousand cubic feet at standard temperature and pressure.