

Price case comparisons

Table C1. Total energy supply, disposition, and price summary
(quadrillion Btu per year, unless otherwise noted)

| Supply, disposition, and prices | 2012 | Projections | | | | | | | | |
|---|--------------|---------------|---------------|----------------|---------------|---------------|----------------|---------------|---------------|----------------|
| | | 2020 | | | 2030 | | | 2040 | | |
| | | Low oil price | Reference | High oil price | Low oil price | Reference | High oil price | Low oil price | Reference | High oil price |
| Production | | | | | | | | | | |
| Crude oil and lease condensate..... | 13.87 | 19.06 | 20.36 | 22.76 | 14.60 | 17.71 | 19.80 | 12.41 | 16.00 | 17.55 |
| Natural gas plant liquids..... | 3.21 | 3.47 | 3.54 | 3.62 | 3.80 | 3.98 | 4.18 | 3.69 | 3.99 | 4.17 |
| Dry natural gas..... | 24.59 | 28.18 | 29.73 | 30.60 | 31.92 | 35.19 | 39.44 | 33.89 | 38.37 | 42.37 |
| Coal ¹ | 20.60 | 21.75 | 21.70 | 21.30 | 22.70 | 22.61 | 22.32 | 23.08 | 22.61 | 23.23 |
| Nuclear / uranium ² | 8.05 | 8.15 | 8.15 | 8.15 | 8.16 | 8.18 | 8.22 | 8.41 | 8.49 | 9.37 |
| Hydropower..... | 2.67 | 2.80 | 2.81 | 2.80 | 2.86 | 2.87 | 2.88 | 2.90 | 2.90 | 2.92 |
| Biomass ³ | 3.78 | 4.52 | 4.66 | 4.74 | 5.16 | 5.29 | 5.31 | 5.52 | 5.61 | 5.63 |
| Other renewable energy ⁴ | 1.97 | 2.98 | 3.01 | 3.07 | 3.22 | 3.23 | 3.32 | 3.94 | 3.89 | 4.50 |
| Other ⁵ | 0.41 | 0.27 | 0.24 | 0.23 | 0.29 | 0.24 | 0.23 | 0.29 | 0.24 | 0.23 |
| Total..... | 79.15 | 91.20 | 94.19 | 97.28 | 92.71 | 99.30 | 105.70 | 94.13 | 102.09 | 109.96 |
| Imports | | | | | | | | | | |
| Crude oil..... | 18.57 | 15.06 | 13.15 | 9.40 | 19.49 | 15.00 | 10.61 | 22.99 | 17.43 | 12.69 |
| Petroleum and other liquids ⁶ | 4.26 | 4.74 | 4.21 | 3.72 | 4.99 | 4.08 | 3.29 | 5.58 | 3.93 | 3.00 |
| Natural gas ⁷ | 3.21 | 2.37 | 2.39 | 2.46 | 1.95 | 2.01 | 1.95 | 2.34 | 2.28 | 2.12 |
| Other imports ⁸ | 0.36 | 0.14 | 0.17 | 0.57 | 0.12 | 0.12 | 0.16 | 0.09 | 0.10 | 0.27 |
| Total..... | 26.40 | 22.31 | 19.92 | 16.16 | 26.55 | 21.22 | 16.01 | 31.00 | 23.73 | 18.08 |
| Exports | | | | | | | | | | |
| Petroleum and other liquids ⁹ | 6.29 | 6.51 | 6.30 | 5.93 | 7.39 | 6.91 | 6.54 | 8.09 | 7.70 | 7.26 |
| Natural gas ¹⁰ | 1.63 | 3.04 | 4.30 | 4.69 | 4.34 | 6.96 | 9.92 | 5.33 | 8.09 | 10.89 |
| Coal..... | 3.22 | 3.14 | 3.13 | 3.10 | 3.61 | 3.55 | 3.29 | 4.15 | 3.79 | 3.33 |
| Total..... | 11.14 | 12.69 | 13.73 | 13.72 | 15.34 | 17.42 | 19.74 | 17.57 | 19.58 | 21.48 |
| Discrepancy¹¹..... | -0.61 | -0.28 | -0.35 | -0.34 | -0.12 | -0.17 | -0.16 | 0.06 | -0.07 | -0.14 |
| Consumption | | | | | | | | | | |
| Petroleum and other liquids ¹² | 35.87 | 37.64 | 36.86 | 35.44 | 37.19 | 35.65 | 33.13 | 38.16 | 35.35 | 32.69 |
| Natural gas..... | 26.20 | 27.36 | 27.65 | 28.20 | 29.36 | 30.03 | 31.24 | 30.66 | 32.32 | 32.98 |
| Coal ¹³ | 17.34 | 18.58 | 18.56 | 18.60 | 19.03 | 19.01 | 19.02 | 18.84 | 18.75 | 19.58 |
| Nuclear / uranium ² | 8.05 | 8.15 | 8.15 | 8.15 | 8.16 | 8.18 | 8.22 | 8.41 | 8.49 | 9.37 |
| Hydropower..... | 2.67 | 2.80 | 2.81 | 2.80 | 2.86 | 2.87 | 2.88 | 2.90 | 2.90 | 2.92 |
| Biomass ¹⁴ | 2.53 | 3.24 | 3.35 | 3.45 | 3.87 | 3.95 | 3.98 | 4.24 | 4.26 | 4.28 |
| Other renewable energy ⁴ | 1.97 | 2.98 | 3.01 | 3.07 | 3.22 | 3.23 | 3.32 | 3.94 | 3.89 | 4.50 |
| Other ¹⁵ | 0.39 | 0.34 | 0.34 | 0.34 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.39 |
| Total..... | 95.02 | 101.10 | 100.73 | 100.06 | 104.04 | 103.27 | 102.14 | 107.49 | 106.31 | 106.71 |
| Prices (2012 dollars per unit) | | | | | | | | | | |
| Crude oil spot prices (dollars per barrel) | | | | | | | | | | |
| Brent..... | 111.65 | 68.90 | 96.57 | 150.28 | 71.90 | 118.99 | 173.69 | 74.90 | 141.46 | 204.24 |
| West Texas Intermediate..... | 94.12 | 66.90 | 94.57 | 148.28 | 69.90 | 116.99 | 171.69 | 72.90 | 139.46 | 202.24 |
| Natural gas at Henry Hub (dollars per million Btu)..... | | | | | | | | | | |
| | 2.75 | 4.35 | 4.38 | 4.73 | 5.75 | 6.03 | 6.88 | 7.43 | 7.65 | 8.34 |
| Coal (dollars per ton) | | | | | | | | | | |
| at the minemouth ¹⁶ | 39.94 | 45.43 | 46.52 | 48.49 | 51.20 | 53.15 | 55.00 | 56.67 | 59.16 | 60.51 |
| Coal (dollars per million Btu) | | | | | | | | | | |
| at the minemouth ¹⁶ | 1.98 | 2.27 | 2.33 | 2.42 | 2.58 | 2.67 | 2.75 | 2.85 | 2.96 | 3.04 |
| Average end-use ¹⁷ | 2.60 | 2.76 | 2.85 | 2.99 | 3.03 | 3.17 | 3.30 | 3.25 | 3.43 | 3.60 |
| Average electricity (cents per kilowatthour)... | 9.8 | 10.1 | 10.1 | 10.3 | 10.4 | 10.4 | 10.7 | 11.1 | 11.1 | 11.7 |

Table C1. Total energy supply, disposition, and price summary (continued)
(quadrillion Btu per year, unless otherwise noted)

| Supply, disposition, and prices | 2012 | Projections | | | | | | | | |
|--|--------|---------------|-----------|----------------|---------------|-----------|----------------|---------------|-----------|----------------|
| | | 2020 | | | 2030 | | | 2040 | | |
| | | Low oil price | Reference | High oil price | Low oil price | Reference | High oil price | Low oil price | Reference | High oil price |
| Prices (nominal dollars per unit) | | | | | | | | | | |
| Crude oil spot prices (dollars per barrel) | | | | | | | | | | |
| Brent..... | 111.65 | 77.64 | 109.37 | 171.98 | 94.64 | 160.19 | 243.19 | 119.51 | 234.53 | 351.41 |
| West Texas Intermediate | 94.12 | 75.39 | 107.11 | 169.69 | 92.01 | 157.49 | 240.39 | 116.32 | 231.22 | 347.97 |
| Natural gas at Henry Hub (dollars per million Btu) | 2.75 | 4.90 | 4.96 | 5.41 | 7.57 | 8.12 | 9.64 | 11.86 | 12.69 | 14.34 |
| Coal (dollars per ton) at the minemouth ¹⁶ | 39.94 | 51.20 | 52.69 | 55.49 | 67.39 | 71.55 | 77.01 | 90.42 | 98.08 | 104.11 |
| Coal (dollars per million Btu) at the minemouth ¹⁶ | 1.98 | 2.56 | 2.63 | 2.77 | 3.40 | 3.59 | 3.86 | 4.54 | 4.91 | 5.23 |
| Average end-use ¹⁷ | 2.60 | 3.11 | 3.23 | 3.42 | 3.99 | 4.27 | 4.63 | 5.18 | 5.68 | 6.20 |
| Average electricity (cents per kilowatt-hour)... | 9.8 | 11.3 | 11.5 | 11.8 | 13.6 | 14.0 | 15.0 | 17.6 | 18.5 | 20.1 |

¹Includes waste coal.

²These values represent the energy obtained from uranium when it is used in light water reactors. The total energy content of uranium is much larger, but alternative processes are required to take advantage of it.

³Includes grid-connected electricity from wood and wood waste; biomass, such as corn, used for liquid fuels production; and non-electric energy demand from wood. Refer to Table A17 for details.

⁴Includes grid-connected electricity from landfill gas; biogenic municipal waste; wind; photovoltaic and solar thermal sources; and non-electric energy from renewable sources, such as active and passive solar systems. Excludes electricity imports using renewable sources and nonmarketed renewable energy. See Table A17 for selected nonmarketed residential and commercial renewable energy data.

⁵Includes non-biogenic municipal waste, liquid hydrogen, methanol, and some domestic inputs to refineries.

⁶Includes imports of finished petroleum products, unfinished oils, alcohols, ethers, blending components, and renewable fuels such as ethanol.

⁷Includes imports of liquefied natural gas that are later re-exported.

⁸Includes coal, coal coke (net), and electricity (net). Excludes imports of fuel used in nuclear power plants.

⁹Includes crude oil, petroleum products, ethanol, and biodiesel.

¹⁰Includes re-exported liquefied natural gas.

¹¹Balancing item. Includes unaccounted for supply, losses, gains, and net storage withdrawals.

¹²Estimated consumption. Includes petroleum-derived fuels and non-petroleum derived fuels, such as ethanol and biodiesel, and coal-based synthetic liquids. Petroleum coke, which is a solid, is included. Also included are natural gas plant liquids and crude oil consumed as a fuel. Refer to Table A17 for detailed renewable liquid fuels consumption.

¹³Excludes coal converted to coal-based synthetic liquids and natural gas.

¹⁴Includes grid-connected electricity from wood and wood waste, non-electric energy from wood, and biofuels heat and coproducts used in the production of liquid fuels, but excludes the energy content of the liquid fuels.

¹⁵Includes non-biogenic municipal waste, liquid hydrogen, and net electricity imports.

¹⁶Includes reported prices for both open market and captive mines. Prices weighted by production, which differs from average minemouth prices published in EIA data reports where it is weighted by reported sales.

¹⁷Prices weighted by consumption; weighted average excludes export free-alongside-ship (f.a.s.) prices.

Btu = British thermal unit.

Note: Totals may not equal sum of components due to independent rounding. Data for 2012 are model results and may differ from official EIA data reports.

Sources: 2012 natural gas supply values: U.S. Energy Information Administration (EIA), *Natural Gas Monthly*, DOE/EIA-0130(2013/06) (Washington, DC, June 2013). 2012 coal minemouth and delivered coal prices: EIA, *Annual Coal Report 2012*, DOE/EIA-0584(2012) (Washington, DC, December 2013). 2012 petroleum supply values: EIA, *Petroleum Supply Annual 2012*, DOE/EIA-0340(2012)/1 (Washington, DC, September 2013). 2012 crude oil spot prices and natural gas spot price at Henry Hub: Thomson Reuters. Other 2012 coal values: *Quarterly Coal Report, October-December 2012*, DOE/EIA-0121(2012/4Q) (Washington, DC, March 2013). Other 2012 values: EIA, *Monthly Energy Review*, DOE/EIA-0035(2013/09) (Washington, DC, September 2013). Projections: EIA, AEO2014 National Energy Modeling System runs LOWPRICE.D120613A, REF2014.D102413A, and HIGHPRICE.D120613A.

Table C2. Energy consumption by sector and source
(quadrillion Btu per year, unless otherwise noted)

| Sector and source | 2012 | Projections | | | | | | | | |
|--|--------------|---------------|--------------|----------------|---------------|--------------|----------------|---------------|--------------|----------------|
| | | 2020 | | | 2030 | | | 2040 | | |
| | | Low oil price | Reference | High oil price | Low oil price | Reference | High oil price | Low oil price | Reference | High oil price |
| Energy consumption | | | | | | | | | | |
| Residential | | | | | | | | | | |
| Propane | 0.51 | 0.43 | 0.42 | 0.42 | 0.39 | 0.38 | 0.37 | 0.36 | 0.35 | 0.34 |
| Kerosene | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Distillate fuel oil | 0.51 | 0.48 | 0.46 | 0.43 | 0.40 | 0.37 | 0.35 | 0.34 | 0.31 | 0.29 |
| Petroleum and other liquids subtotal..... | 1.02 | 0.91 | 0.89 | 0.85 | 0.79 | 0.75 | 0.72 | 0.70 | 0.66 | 0.63 |
| Natural gas | 4.26 | 4.57 | 4.56 | 4.54 | 4.44 | 4.43 | 4.39 | 4.22 | 4.21 | 4.16 |
| Renewable energy ¹ | 0.45 | 0.41 | 0.46 | 0.55 | 0.37 | 0.44 | 0.51 | 0.33 | 0.42 | 0.48 |
| Electricity | 4.69 | 4.86 | 4.84 | 4.81 | 5.23 | 5.21 | 5.16 | 5.69 | 5.65 | 5.57 |
| Delivered energy | 10.42 | 10.75 | 10.74 | 10.75 | 10.82 | 10.83 | 10.78 | 10.95 | 10.94 | 10.85 |
| Electricity related losses | 9.68 | 9.67 | 9.64 | 9.59 | 10.05 | 10.00 | 9.96 | 10.61 | 10.55 | 10.60 |
| Total | 20.10 | 20.42 | 20.38 | 20.34 | 20.88 | 20.83 | 20.75 | 21.56 | 21.48 | 21.45 |
| Commercial | | | | | | | | | | |
| Propane | 0.15 | 0.17 | 0.16 | 0.15 | 0.18 | 0.17 | 0.16 | 0.19 | 0.18 | 0.17 |
| Motor gasoline ² | 0.05 | 0.05 | 0.04 | 0.04 | 0.05 | 0.05 | 0.05 | 0.06 | 0.05 | 0.05 |
| Kerosene | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 |
| Distillate fuel oil | 0.40 | 0.43 | 0.40 | 0.35 | 0.42 | 0.38 | 0.33 | 0.43 | 0.37 | 0.32 |
| Residual fuel oil..... | 0.04 | 0.09 | 0.08 | 0.06 | 0.10 | 0.08 | 0.06 | 0.10 | 0.08 | 0.06 |
| Petroleum and other liquids subtotal..... | 0.63 | 0.74 | 0.68 | 0.61 | 0.76 | 0.67 | 0.60 | 0.79 | 0.68 | 0.60 |
| Natural gas | 2.96 | 3.25 | 3.23 | 3.22 | 3.36 | 3.35 | 3.32 | 3.66 | 3.65 | 3.59 |
| Coal | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| Renewable energy ³ | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 |
| Electricity | 4.52 | 4.70 | 4.69 | 4.67 | 5.19 | 5.18 | 5.14 | 5.74 | 5.72 | 5.66 |
| Delivered energy | 8.29 | 8.86 | 8.78 | 8.68 | 9.48 | 9.38 | 9.24 | 10.36 | 10.22 | 10.02 |
| Electricity related losses | 9.32 | 9.35 | 9.34 | 9.32 | 9.97 | 9.94 | 9.93 | 10.70 | 10.66 | 10.75 |
| Total | 17.61 | 18.21 | 18.12 | 18.00 | 19.46 | 19.32 | 19.17 | 21.06 | 20.88 | 20.78 |
| Industrial⁴ | | | | | | | | | | |
| Liquefied petroleum gases and other ⁵ | 2.25 | 2.86 | 2.90 | 2.97 | 2.87 | 3.05 | 3.18 | 2.79 | 2.90 | 3.10 |
| Motor gasoline ² | 0.26 | 0.30 | 0.30 | 0.30 | 0.29 | 0.30 | 0.29 | 0.30 | 0.29 | 0.29 |
| Distillate fuel oil | 1.20 | 1.40 | 1.40 | 1.38 | 1.42 | 1.41 | 1.36 | 1.45 | 1.42 | 1.36 |
| Residual fuel oil..... | 0.10 | 0.17 | 0.14 | 0.12 | 0.19 | 0.15 | 0.13 | 0.21 | 0.15 | 0.13 |
| Petrochemical feedstocks | 0.75 | 1.27 | 1.27 | 1.27 | 1.58 | 1.62 | 1.62 | 1.49 | 1.59 | 1.70 |
| Other petroleum ⁶ | 3.50 | 3.67 | 3.56 | 3.38 | 3.83 | 3.58 | 3.34 | 4.10 | 3.75 | 3.46 |
| Petroleum and other liquids subtotal..... | 8.06 | 9.66 | 9.56 | 9.43 | 10.19 | 10.10 | 9.92 | 10.33 | 10.10 | 10.04 |
| Natural gas | 7.29 | 8.11 | 8.26 | 8.40 | 8.54 | 8.71 | 8.57 | 8.49 | 8.87 | 8.74 |
| Natural-gas-to-liquids heat and power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.40 |
| Lease and plant fuel ⁷ | 1.45 | 1.57 | 1.77 | 1.90 | 1.77 | 2.16 | 2.84 | 1.83 | 2.41 | 3.11 |
| Natural gas subtotal..... | 8.75 | 9.69 | 10.04 | 10.29 | 10.32 | 10.87 | 11.42 | 10.32 | 11.28 | 12.26 |
| Metallurgical coal | 0.55 | 0.57 | 0.58 | 0.59 | 0.55 | 0.55 | 0.53 | 0.49 | 0.47 | 0.46 |
| Other industrial coal..... | 0.93 | 0.98 | 0.99 | 0.99 | 0.99 | 1.00 | 1.00 | 1.00 | 1.01 | 1.02 |
| Coal-to-liquids heat and power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.56 |
| Net coal coke imports | 0.00 | 0.00 | 0.00 | 0.01 | -0.03 | -0.03 | -0.03 | -0.05 | -0.05 | -0.04 |
| Coal subtotal..... | 1.48 | 1.56 | 1.57 | 1.59 | 1.51 | 1.52 | 1.51 | 1.44 | 1.44 | 2.01 |
| Biofuels heat and coproducts..... | 0.52 | 0.76 | 0.76 | 0.75 | 0.79 | 0.79 | 0.78 | 0.78 | 0.79 | 0.78 |
| Renewable energy ⁸ | 1.48 | 1.74 | 1.74 | 1.74 | 2.05 | 2.01 | 1.93 | 2.38 | 2.28 | 2.20 |
| Electricity | 3.35 | 4.02 | 4.04 | 4.09 | 4.31 | 4.33 | 4.27 | 4.34 | 4.34 | 4.33 |
| Delivered energy | 23.63 | 27.43 | 27.71 | 27.90 | 29.18 | 29.62 | 29.82 | 29.59 | 30.22 | 31.61 |
| Electricity related losses | 6.91 | 8.01 | 8.05 | 8.16 | 8.30 | 8.33 | 8.25 | 8.10 | 8.10 | 8.22 |
| Total | 30.54 | 35.44 | 35.76 | 36.05 | 37.48 | 37.94 | 38.07 | 37.69 | 38.33 | 39.83 |

Table C2. Energy consumption by sector and source (continued)
(quadrillion Btu per year, unless otherwise noted)

| Sector and source | 2012 | Projections | | | | | | | | |
|--|--------------|---------------|---------------|----------------|---------------|---------------|----------------|---------------|---------------|----------------|
| | | 2020 | | | 2030 | | | 2040 | | |
| | | Low oil price | Reference | High oil price | Low oil price | Reference | High oil price | Low oil price | Reference | High oil Price |
| Transportation | | | | | | | | | | |
| Propane | 0.05 | 0.04 | 0.05 | 0.06 | 0.05 | 0.06 | 0.07 | 0.05 | 0.07 | 0.08 |
| Motor gasoline ² | 16.33 | 15.61 | 15.00 | 14.05 | 13.81 | 12.69 | 11.52 | 13.69 | 12.09 | 10.88 |
| of which: E85 ⁹ | 0.01 | 0.13 | 0.19 | 0.29 | 0.30 | 0.46 | 0.59 | 0.27 | 0.33 | 0.56 |
| Jet fuel ¹⁰ | 3.00 | 3.08 | 3.08 | 3.07 | 3.20 | 3.20 | 3.19 | 3.29 | 3.28 | 3.27 |
| Distillate fuel oil ¹¹ | 5.82 | 6.69 | 6.70 | 6.47 | 7.47 | 7.25 | 6.18 | 8.36 | 7.54 | 6.24 |
| Residual fuel oil | 0.58 | 0.58 | 0.58 | 0.58 | 0.59 | 0.59 | 0.59 | 0.60 | 0.60 | 0.60 |
| Other petroleum ¹² | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 |
| Petroleum and other liquids subtotal | 25.93 | 26.15 | 25.55 | 24.38 | 25.27 | 23.94 | 21.70 | 26.14 | 23.73 | 21.22 |
| Pipeline fuel natural gas | 0.73 | 0.71 | 0.74 | 0.76 | 0.76 | 0.82 | 0.86 | 0.78 | 0.85 | 0.89 |
| Compressed / liquefied natural gas | 0.04 | 0.07 | 0.08 | 0.43 | 0.08 | 0.28 | 1.44 | 0.10 | 0.86 | 2.32 |
| Liquid hydrogen | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Electricity | 0.02 | 0.03 | 0.03 | 0.03 | 0.04 | 0.04 | 0.05 | 0.05 | 0.06 | 0.07 |
| Delivered energy | 26.72 | 26.97 | 26.40 | 25.60 | 26.16 | 25.08 | 24.05 | 27.08 | 25.50 | 24.51 |
| Electricity related losses | 0.05 | 0.06 | 0.06 | 0.07 | 0.08 | 0.08 | 0.09 | 0.10 | 0.12 | 0.14 |
| Total | 26.77 | 27.03 | 26.47 | 25.66 | 26.23 | 25.17 | 24.15 | 27.18 | 25.62 | 24.65 |
| Delivered energy consumption for all sectors | | | | | | | | | | |
| Liquefied petroleum gases and other ⁵ | 2.96 | 3.50 | 3.53 | 3.60 | 3.49 | 3.65 | 3.77 | 3.39 | 3.49 | 3.68 |
| Motor gasoline ² | 16.64 | 15.95 | 15.34 | 14.39 | 14.16 | 13.04 | 11.85 | 14.05 | 12.44 | 11.22 |
| of which: E85 ⁹ | 0.01 | 0.13 | 0.19 | 0.29 | 0.30 | 0.46 | 0.59 | 0.27 | 0.33 | 0.56 |
| Jet fuel ¹⁰ | 3.00 | 3.08 | 3.08 | 3.07 | 3.20 | 3.20 | 3.19 | 3.29 | 3.28 | 3.27 |
| Kerosene | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Distillate fuel oil | 7.93 | 9.00 | 8.95 | 8.64 | 9.71 | 9.41 | 8.23 | 10.58 | 9.63 | 8.21 |
| Residual fuel oil | 0.72 | 0.85 | 0.80 | 0.77 | 0.88 | 0.82 | 0.78 | 0.92 | 0.83 | 0.80 |
| Petrochemical feedstocks | 0.75 | 1.27 | 1.27 | 1.27 | 1.58 | 1.62 | 1.62 | 1.49 | 1.59 | 1.70 |
| Other petroleum ¹³ | 3.64 | 3.81 | 3.70 | 3.52 | 3.97 | 3.73 | 3.48 | 4.24 | 3.89 | 3.61 |
| Petroleum and other liquids subtotal | 35.64 | 37.46 | 36.68 | 35.27 | 37.00 | 35.47 | 32.94 | 37.97 | 35.17 | 32.50 |
| Natural gas | 14.56 | 16.00 | 16.14 | 16.59 | 16.43 | 16.77 | 17.72 | 16.47 | 17.59 | 18.81 |
| Natural-gas-to-liquids heat and power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.40 |
| Lease and plant fuel ⁷ | 1.45 | 1.57 | 1.77 | 1.90 | 1.77 | 2.16 | 2.84 | 1.83 | 2.41 | 3.11 |
| Pipeline natural gas | 0.73 | 0.71 | 0.74 | 0.76 | 0.76 | 0.82 | 0.86 | 0.78 | 0.85 | 0.89 |
| Natural gas subtotal | 16.74 | 18.28 | 18.65 | 19.24 | 18.96 | 19.75 | 21.42 | 19.08 | 20.84 | 23.21 |
| Metallurgical coal | 0.55 | 0.57 | 0.58 | 0.59 | 0.55 | 0.55 | 0.53 | 0.49 | 0.47 | 0.46 |
| Other coal | 0.98 | 1.03 | 1.03 | 1.04 | 1.03 | 1.04 | 1.05 | 1.04 | 1.05 | 1.07 |
| Coal-to-liquids heat and power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.56 |
| Net coal coke imports | 0.00 | 0.00 | 0.00 | 0.01 | -0.03 | -0.03 | -0.03 | -0.05 | -0.05 | -0.04 |
| Coal subtotal | 1.53 | 1.60 | 1.61 | 1.64 | 1.55 | 1.56 | 1.55 | 1.48 | 1.48 | 2.05 |
| Biofuels heat and coproducts | 0.52 | 0.76 | 0.76 | 0.75 | 0.79 | 0.79 | 0.78 | 0.78 | 0.79 | 0.78 |
| Renewable energy ¹⁴ | 2.06 | 2.28 | 2.33 | 2.42 | 2.56 | 2.58 | 2.58 | 2.84 | 2.83 | 2.82 |
| Liquid hydrogen | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Electricity | 12.58 | 13.61 | 13.60 | 13.60 | 14.77 | 14.76 | 14.62 | 15.83 | 15.77 | 15.63 |
| Delivered energy | 69.07 | 74.00 | 73.63 | 72.93 | 75.64 | 74.91 | 73.89 | 77.98 | 76.88 | 76.99 |
| Electricity related losses | 25.95 | 27.10 | 27.10 | 27.13 | 28.40 | 28.35 | 28.25 | 29.51 | 29.43 | 29.71 |
| Total | 95.02 | 101.10 | 100.73 | 100.06 | 104.04 | 103.27 | 102.14 | 107.49 | 106.31 | 106.71 |
| Electric power¹⁵ | | | | | | | | | | |
| Distillate fuel oil | 0.05 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 |
| Residual fuel oil | 0.18 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.11 | 0.10 | 0.10 |
| Petroleum and other liquids subtotal | 0.23 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.19 | 0.19 | 0.19 |
| Natural gas | 9.46 | 9.08 | 9.00 | 8.96 | 10.40 | 10.28 | 9.81 | 11.58 | 11.48 | 9.76 |
| Steam coal | 15.82 | 16.98 | 16.95 | 16.96 | 17.48 | 17.44 | 17.47 | 17.37 | 17.27 | 17.53 |
| Nuclear / uranium ¹⁶ | 8.05 | 8.15 | 8.15 | 8.15 | 8.16 | 8.18 | 8.22 | 8.41 | 8.49 | 9.37 |
| Renewable energy ¹⁷ | 4.59 | 5.98 | 6.08 | 6.15 | 6.60 | 6.68 | 6.83 | 7.45 | 7.44 | 8.11 |
| Non-biogenic municipal waste | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 |
| Electricity imports | 0.16 | 0.11 | 0.11 | 0.11 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.16 |
| Total | 38.53 | 40.71 | 40.70 | 40.74 | 43.16 | 43.12 | 42.87 | 45.34 | 45.20 | 45.34 |

Table C2. Energy consumption by sector and source (continued)
(quadrillion Btu per year, unless otherwise noted)

| Sector and source | 2012 | Projections | | | | | | | | |
|--|--------------|---------------|---------------|----------------|---------------|---------------|----------------|---------------|---------------|----------------|
| | | 2020 | | | 2030 | | | 2040 | | |
| | | Low oil price | Reference | High oil price | Low oil price | Reference | High oil price | Low oil price | Reference | High oil price |
| Total energy consumption | | | | | | | | | | |
| Liquefied petroleum gases and other ⁵ | 2.96 | 3.50 | 3.53 | 3.60 | 3.49 | 3.65 | 3.77 | 3.39 | 3.49 | 3.68 |
| Motor gasoline ² | 16.64 | 15.95 | 15.34 | 14.39 | 14.16 | 13.04 | 11.85 | 14.05 | 12.44 | 11.22 |
| of which: E85 ⁹ | 0.01 | 0.13 | 0.19 | 0.29 | 0.30 | 0.46 | 0.59 | 0.27 | 0.33 | 0.56 |
| Jet fuel ¹⁰ | 3.00 | 3.08 | 3.08 | 3.07 | 3.20 | 3.20 | 3.19 | 3.29 | 3.28 | 3.27 |
| Kerosene | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Distillate fuel oil | 7.98 | 9.09 | 9.03 | 8.73 | 9.79 | 9.50 | 8.31 | 10.66 | 9.72 | 8.29 |
| Residual fuel oil | 0.90 | 0.94 | 0.89 | 0.86 | 0.98 | 0.91 | 0.88 | 1.03 | 0.93 | 0.90 |
| Petrochemical feedstocks | 0.75 | 1.27 | 1.27 | 1.27 | 1.58 | 1.62 | 1.62 | 1.49 | 1.59 | 1.70 |
| Other petroleum ¹³ | 3.64 | 3.81 | 3.70 | 3.52 | 3.97 | 3.73 | 3.48 | 4.24 | 3.89 | 3.61 |
| Petroleum and other liquids subtotal | 35.87 | 37.64 | 36.86 | 35.44 | 37.19 | 35.65 | 33.13 | 38.16 | 35.35 | 32.69 |
| Natural gas | 24.02 | 25.07 | 25.14 | 25.55 | 26.82 | 27.05 | 27.53 | 28.05 | 29.07 | 28.58 |
| Natural-gas-to-liquids heat and power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.40 |
| Lease and plant fuel ⁷ | 1.45 | 1.57 | 1.77 | 1.90 | 1.77 | 2.16 | 2.84 | 1.83 | 2.41 | 3.11 |
| Pipeline natural gas | 0.73 | 0.71 | 0.74 | 0.76 | 0.76 | 0.82 | 0.86 | 0.78 | 0.85 | 0.89 |
| Natural gas subtotal | 26.20 | 27.36 | 27.65 | 28.20 | 29.36 | 30.03 | 31.24 | 30.66 | 32.32 | 32.98 |
| Metallurgical coal | 0.55 | 0.57 | 0.58 | 0.59 | 0.55 | 0.55 | 0.53 | 0.49 | 0.47 | 0.46 |
| Other coal | 16.79 | 18.01 | 17.98 | 18.00 | 18.51 | 18.49 | 18.52 | 18.41 | 18.32 | 18.59 |
| Coal-to-liquids heat and power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.56 |
| Net coal coke imports | 0.00 | 0.00 | 0.00 | 0.01 | -0.03 | -0.03 | -0.03 | -0.05 | -0.05 | -0.04 |
| Coal subtotal | 17.34 | 18.58 | 18.56 | 18.60 | 19.03 | 19.01 | 19.02 | 18.84 | 18.75 | 19.58 |
| Nuclear / uranium ¹⁶ | 8.05 | 8.15 | 8.15 | 8.15 | 8.16 | 8.18 | 8.22 | 8.41 | 8.49 | 9.37 |
| Biofuels heat and coproducts | 0.52 | 0.76 | 0.76 | 0.75 | 0.79 | 0.79 | 0.78 | 0.78 | 0.79 | 0.78 |
| Renewable energy ¹⁸ | 6.65 | 8.26 | 8.40 | 8.57 | 9.16 | 9.26 | 9.41 | 10.29 | 10.27 | 10.93 |
| Liquid hydrogen | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Non-biogenic municipal waste | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 |
| Electricity imports | 0.16 | 0.11 | 0.11 | 0.11 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.16 |
| Total | 95.02 | 101.10 | 100.73 | 100.06 | 104.04 | 103.27 | 102.14 | 107.49 | 106.31 | 106.71 |
| Energy use and related statistics | | | | | | | | | | |
| Delivered energy use | 69.07 | 74.00 | 73.63 | 72.93 | 75.64 | 74.91 | 73.89 | 77.98 | 76.88 | 76.99 |
| Total energy use | 95.02 | 101.10 | 100.73 | 100.06 | 104.04 | 103.27 | 102.14 | 107.49 | 106.31 | 106.71 |
| Ethanol consumed in motor gasoline and E85 | 1.09 | 1.22 | 1.22 | 1.21 | 1.25 | 1.25 | 1.24 | 1.25 | 1.29 | 1.31 |
| Population (millions) | 314.58 | 334.47 | 334.47 | 334.47 | 359.03 | 359.03 | 359.03 | 380.53 | 380.53 | 380.53 |
| Gross domestic product (billion 2005 dollars) | 13,593 | 16,739 | 16,753 | 16,812 | 21,150 | 21,139 | 21,100 | 26,725 | 26,670 | 26,772 |
| Carbon dioxide emissions (million metric tons) | 5,290 | 5,523 | 5,476 | 5,401 | 5,621 | 5,527 | 5,401 | 5,746 | 5,599 | 5,475 |

¹Includes wood used for residential heating. See Table A4 and/or Table A17 for estimates of nonmarketed renewable energy consumption for geothermal heat pumps, solar thermal water heating, and electricity generation from wind and solar photovoltaic sources.

²Includes ethanol and ethers blended into gasoline.

³Excludes ethanol. Includes commercial sector consumption of wood and wood waste, landfill gas, municipal waste, and other biomass for combined heat and power. See Table A5 and/or Table A17 for estimates of nonmarketed renewable energy consumption for solar thermal water heating and electricity generation from wind and solar photovoltaic sources.

⁴Includes energy for combined heat and power plants that have a non-regulatory status, and small on-site generating systems.

⁵Includes ethane, natural gasoline, and refinery olefins.

⁶Includes petroleum coke, asphalt, road oil, lubricants, still gas, and miscellaneous petroleum products.

⁷Represents natural gas used in well, field, and lease operations, in natural gas processing plant machinery, and for liquefaction in export facilities.

⁸Includes consumption of energy produced from hydroelectric, wood and wood waste, municipal waste, and other biomass sources. Excludes ethanol in motor gasoline.

⁹E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol varies seasonally. The annual average ethanol content of 74 percent is used for this forecast.

¹⁰Includes only kerosene type.

¹¹Diesel fuel for on- and off- road use.

¹²Includes aviation gasoline and lubricants.

¹³Includes aviation gasoline, petroleum coke, asphalt, road oil, lubricants, still gas, and miscellaneous petroleum products.

¹⁴Includes electricity generated for sale to the grid and for own use from renewable sources, and non-electric energy from renewable sources. Excludes ethanol and nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal water heaters.

¹⁵Includes consumption of energy by electricity-only and combined heat and power plants that have a regulatory status.

¹⁶These values represent the energy obtained from uranium when it is used in light water reactors. The total energy content of uranium is much larger, but alternative processes are required to take advantage of it.

¹⁷Includes conventional hydroelectric, geothermal, wood and wood waste, biogenic municipal waste, other biomass, wind, photovoltaic, and solar thermal sources. Excludes net electricity imports.

¹⁸Includes conventional hydroelectric, geothermal, wood and wood waste, biogenic municipal waste, other biomass, wind, photovoltaic, and solar thermal sources. Excludes ethanol, net electricity imports, and nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal water heaters. Btu = British thermal unit.

Note: Includes estimated consumption for petroleum and other liquids. Totals may not equal sum of components due to independent rounding. Data for 2012 are model results and may differ from official EIA data reports.

Sources: 2012 consumption based on: U.S. Energy Information Administration (EIA), *Monthly Energy Review*, DOE/EIA-0035(2013/09) (Washington, DC, September 2013). 2012 population and gross domestic product: IHS Global Insight Industry and Employment models, May 2013. 2012 carbon dioxide emissions and emission factors: EIA, *Monthly Energy Review*, DOE/EIA-0035(2013/09) (Washington, DC, September 2013). Projections: EIA, AEO2014 National Energy Modeling System runs LOWPRICE.D120613A, REF2014.D102413A, and HIGHPRICE.D120613A.

Table C3. Energy prices by sector and source
(2012 dollars per million Btu, unless otherwise noted)

| Sector and source | 2012 | Projections | | | | | | | | |
|---|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | | 2020 | | | 2030 | | | 2040 | | |
| | | Low oil price | Reference | High oil price | Low oil price | Reference | High oil price | Low oil price | Reference | High oil Price |
| Residential | | | | | | | | | | |
| Propane | 24.12 | 22.39 | 23.79 | 25.81 | 23.38 | 25.75 | 28.16 | 24.24 | 27.64 | 29.79 |
| Distillate fuel oil | 27.30 | 19.42 | 24.67 | 34.47 | 20.14 | 28.60 | 38.28 | 20.70 | 32.64 | 43.67 |
| Natural gas..... | 10.46 | 11.58 | 11.59 | 11.91 | 13.32 | 13.50 | 14.02 | 15.76 | 15.98 | 17.01 |
| Electricity..... | 34.83 | 35.80 | 36.15 | 36.73 | 36.70 | 36.98 | 37.81 | 38.53 | 38.83 | 40.50 |
| Commercial | | | | | | | | | | |
| Propane | 20.75 | 18.60 | 20.33 | 22.87 | 19.78 | 22.79 | 25.93 | 20.80 | 25.17 | 28.11 |
| Distillate fuel oil | 26.81 | 16.64 | 21.77 | 31.50 | 17.38 | 25.66 | 35.27 | 17.87 | 29.72 | 40.58 |
| Residual fuel oil..... | 22.84 | 10.41 | 14.40 | 22.09 | 11.17 | 17.92 | 25.57 | 11.73 | 20.99 | 30.45 |
| Natural gas..... | 8.11 | 9.45 | 9.49 | 9.79 | 10.95 | 11.19 | 11.62 | 12.85 | 13.08 | 14.20 |
| Electricity..... | 29.55 | 30.53 | 30.80 | 31.28 | 31.07 | 31.26 | 31.98 | 32.82 | 33.01 | 34.56 |
| Industrial¹ | | | | | | | | | | |
| Propane | 21.09 | 18.85 | 20.64 | 23.33 | 20.23 | 23.27 | 26.61 | 21.65 | 25.84 | 28.95 |
| Distillate fuel oil | 27.41 | 17.04 | 22.22 | 31.89 | 17.72 | 26.11 | 35.68 | 18.11 | 29.92 | 40.96 |
| Residual fuel oil..... | 20.90 | 10.84 | 14.88 | 22.60 | 11.54 | 18.29 | 25.97 | 12.15 | 21.48 | 30.80 |
| Natural gas ² | 3.77 | 5.70 | 5.79 | 6.11 | 6.70 | 6.99 | 7.67 | 8.48 | 8.59 | 9.53 |
| Metallurgical coal | 7.25 | 8.34 | 8.43 | 8.60 | 9.38 | 9.51 | 9.65 | 10.05 | 10.20 | 10.38 |
| Other industrial coal..... | 3.24 | 3.51 | 3.59 | 3.72 | 3.76 | 3.88 | 4.04 | 4.02 | 4.19 | 4.36 |
| Coal to liquids | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3.16 |
| Electricity..... | 19.50 | 20.54 | 20.77 | 21.17 | 21.75 | 21.99 | 22.71 | 23.86 | 24.05 | 25.41 |
| Transportation | | | | | | | | | | |
| Propane | 25.14 | 23.49 | 24.85 | 26.88 | 24.52 | 26.81 | 29.22 | 25.43 | 28.82 | 30.84 |
| E85 ³ | 35.06 | 22.62 | 25.61 | 33.07 | 24.13 | 27.91 | 34.30 | 26.08 | 35.49 | 40.38 |
| Motor gasoline ⁴ | 30.68 | 21.22 | 25.59 | 34.56 | 21.23 | 28.54 | 37.08 | 21.79 | 32.67 | 42.21 |
| Jet fuel ⁵ | 22.99 | 14.26 | 19.47 | 29.11 | 15.29 | 23.71 | 32.98 | 16.09 | 28.07 | 38.74 |
| Diesel fuel (distillate fuel oil) ⁶ | 28.80 | 21.63 | 26.80 | 36.44 | 22.33 | 30.68 | 40.19 | 22.73 | 34.53 | 45.47 |
| Residual fuel oil..... | 20.07 | 8.73 | 12.46 | 19.50 | 9.40 | 15.50 | 22.49 | 10.00 | 18.55 | 26.71 |
| Natural gas ⁷ | 14.64 | 16.00 | 15.62 | 18.62 | 16.68 | 16.63 | 19.78 | 17.80 | 19.67 | 21.46 |
| Electricity..... | 31.43 | 29.74 | 29.86 | 30.17 | 31.41 | 31.68 | 32.47 | 33.74 | 34.19 | 36.24 |
| Electric power⁸ | | | | | | | | | | |
| Distillate fuel oil | 24.12 | 15.46 | 20.66 | 30.47 | 16.25 | 24.65 | 34.31 | 16.86 | 28.81 | 39.77 |
| Residual fuel oil..... | 20.68 | 9.88 | 13.86 | 21.50 | 10.48 | 17.14 | 24.95 | 10.78 | 20.42 | 29.76 |
| Natural gas..... | 3.44 | 5.00 | 5.07 | 5.35 | 6.20 | 6.49 | 7.05 | 8.05 | 8.16 | 8.98 |
| Steam coal..... | 2.39 | 2.52 | 2.61 | 2.75 | 2.79 | 2.93 | 3.06 | 3.00 | 3.19 | 3.40 |
| Average price to all users⁹ | | | | | | | | | | |
| Propane | 23.24 | 20.99 | 22.54 | 24.84 | 21.99 | 24.66 | 27.45 | 22.80 | 26.79 | 29.34 |
| E85 ³ | 35.06 | 22.62 | 25.61 | 33.07 | 24.13 | 27.91 | 34.30 | 26.08 | 35.49 | 40.38 |
| Motor gasoline ⁴ | 30.44 | 21.22 | 25.58 | 34.56 | 21.22 | 28.53 | 37.08 | 21.78 | 32.67 | 42.21 |
| Jet fuel ⁵ | 22.99 | 14.26 | 19.47 | 29.11 | 15.29 | 23.71 | 32.98 | 16.09 | 28.07 | 38.74 |
| Distillate fuel oil | 28.36 | 20.51 | 25.70 | 35.36 | 21.30 | 29.67 | 39.14 | 21.79 | 33.54 | 44.42 |
| Residual fuel oil..... | 20.41 | 9.39 | 13.15 | 20.34 | 10.10 | 16.32 | 23.48 | 10.70 | 19.42 | 27.91 |
| Natural gas..... | 5.38 | 7.03 | 7.09 | 7.55 | 8.16 | 8.49 | 9.57 | 10.00 | 10.38 | 11.96 |
| Metallurgical coal | 7.25 | 8.34 | 8.43 | 8.60 | 9.38 | 9.51 | 9.65 | 10.05 | 10.20 | 10.38 |
| Other coal | 2.44 | 2.59 | 2.67 | 2.81 | 2.85 | 2.98 | 3.12 | 3.07 | 3.25 | 3.46 |
| Coal to liquids | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3.16 |
| Electricity..... | 28.85 | 29.46 | 29.72 | 30.17 | 30.34 | 30.56 | 31.33 | 32.42 | 32.63 | 34.15 |
| Non-renewable energy expenditures by sector (billion 2012 dollars) | | | | | | | | | | |
| Residential | 234.06 | 245.83 | 249.25 | 256.46 | 268.11 | 272.82 | 280.40 | 301.65 | 306.56 | 319.45 |
| Commercial..... | 173.25 | 186.48 | 189.44 | 195.36 | 211.31 | 215.91 | 222.46 | 249.84 | 255.39 | 268.38 |
| Industrial ¹ | 213.75 | 249.82 | 279.45 | 335.52 | 285.52 | 343.02 | 407.85 | 312.95 | 390.91 | 479.52 |
| Transportation..... | 755.09 | 527.76 | 632.05 | 827.37 | 514.23 | 667.67 | 809.67 | 548.77 | 772.91 | 923.38 |
| Total non-renewable expenditures..... | 1,376.15 | 1,209.88 | 1,350.18 | 1,614.71 | 1,279.17 | 1,499.43 | 1,720.37 | 1,413.21 | 1,725.77 | 1,990.73 |
| Transportation renewable expenditures..... | 0.50 | 2.85 | 4.89 | 9.50 | 7.27 | 12.96 | 20.25 | 7.05 | 11.80 | 22.66 |
| Total expenditures | 1,376.66 | 1,212.74 | 1,355.07 | 1,624.21 | 1,286.44 | 1,512.39 | 1,740.62 | 1,420.26 | 1,737.56 | 2,013.39 |

Table C3. Energy prices by sector and source (continued)
(nominal dollars per million Btu, unless otherwise noted)

| Sector and source | 2012 | Projections | | | | | | | | |
|--|-------|---------------|-----------|----------------|---------------|-----------|----------------|---------------|-----------|----------------|
| | | 2020 | | | 2030 | | | 2040 | | |
| | | Low oil price | Reference | High oil price | Low oil price | Reference | High oil price | Low oil price | Reference | High oil price |
| Residential | | | | | | | | | | |
| Propane | 24.12 | 25.22 | 26.94 | 29.54 | 30.77 | 34.67 | 39.43 | 38.67 | 45.83 | 51.25 |
| Distillate fuel oil | 27.30 | 21.89 | 27.94 | 39.45 | 26.51 | 38.50 | 53.60 | 33.02 | 54.12 | 75.14 |
| Natural gas | 10.46 | 13.05 | 13.13 | 13.62 | 17.53 | 18.18 | 19.62 | 25.15 | 26.49 | 29.27 |
| Electricity | 34.83 | 40.34 | 40.94 | 42.04 | 48.31 | 49.78 | 52.93 | 61.48 | 64.39 | 69.68 |
| Commercial | | | | | | | | | | |
| Propane | 20.75 | 20.97 | 23.02 | 26.17 | 26.04 | 30.68 | 36.31 | 33.19 | 41.74 | 48.37 |
| Distillate fuel oil | 26.81 | 18.75 | 24.66 | 36.05 | 22.87 | 34.54 | 49.38 | 28.51 | 49.27 | 69.82 |
| Residual fuel oil | 22.84 | 11.73 | 16.31 | 25.27 | 14.70 | 24.12 | 35.80 | 18.71 | 34.80 | 52.39 |
| Natural gas | 8.11 | 10.65 | 10.75 | 11.20 | 14.42 | 15.07 | 16.27 | 20.51 | 21.68 | 24.43 |
| Electricity | 29.55 | 34.40 | 34.88 | 35.80 | 40.89 | 42.08 | 44.78 | 52.37 | 54.73 | 59.46 |
| Industrial¹ | | | | | | | | | | |
| Propane | 21.09 | 21.24 | 23.38 | 26.70 | 26.63 | 31.32 | 37.26 | 34.54 | 42.83 | 49.82 |
| Distillate fuel oil | 27.41 | 19.20 | 25.17 | 36.50 | 23.33 | 35.15 | 49.96 | 28.89 | 49.61 | 70.48 |
| Residual fuel oil | 20.90 | 12.21 | 16.85 | 25.87 | 15.19 | 24.62 | 36.36 | 19.39 | 35.61 | 52.99 |
| Natural gas ² | 3.77 | 6.42 | 6.56 | 7.00 | 8.82 | 9.41 | 10.73 | 13.53 | 14.25 | 16.40 |
| Metallurgical coal | 7.25 | 9.40 | 9.55 | 9.84 | 12.35 | 12.81 | 13.51 | 16.04 | 16.91 | 17.87 |
| Other industrial coal | 3.24 | 3.95 | 4.07 | 4.26 | 4.94 | 5.23 | 5.66 | 6.42 | 6.95 | 7.51 |
| Coal to liquids | -- | -- | -- | -- | -- | -- | -- | -- | -- | 5.44 |
| Electricity | 19.50 | 23.14 | 23.52 | 24.23 | 28.63 | 29.60 | 31.80 | 38.07 | 39.88 | 43.73 |
| Transportation | | | | | | | | | | |
| Propane | 25.14 | 26.48 | 28.14 | 30.75 | 32.27 | 36.09 | 40.91 | 40.57 | 47.79 | 53.06 |
| E85 ³ | 35.06 | 25.49 | 29.00 | 37.84 | 31.77 | 37.57 | 48.02 | 41.61 | 58.85 | 69.48 |
| Motor gasoline ⁴ | 30.68 | 23.91 | 28.98 | 39.55 | 27.94 | 38.42 | 51.91 | 34.76 | 54.17 | 72.63 |
| Jet fuel ⁵ | 22.99 | 16.07 | 22.06 | 33.32 | 20.12 | 31.91 | 46.18 | 25.67 | 46.53 | 66.66 |
| Diesel fuel (distillate fuel oil) ⁶ | 28.80 | 24.38 | 30.35 | 41.70 | 29.39 | 41.30 | 56.27 | 36.26 | 57.25 | 78.23 |
| Residual fuel oil | 20.07 | 9.84 | 14.11 | 22.31 | 12.37 | 20.86 | 31.48 | 15.95 | 30.76 | 45.96 |
| Natural gas ⁷ | 14.64 | 18.03 | 17.69 | 21.31 | 21.95 | 22.38 | 27.69 | 28.40 | 32.61 | 36.92 |
| Electricity | 31.43 | 33.51 | 33.82 | 34.52 | 41.34 | 42.65 | 45.46 | 53.83 | 56.68 | 62.36 |
| Electric power⁸ | | | | | | | | | | |
| Distillate fuel oil | 24.12 | 17.42 | 23.40 | 34.87 | 21.40 | 33.18 | 48.04 | 26.91 | 47.77 | 68.43 |
| Residual fuel oil | 20.68 | 11.13 | 15.70 | 24.60 | 13.79 | 23.08 | 34.94 | 17.19 | 33.86 | 51.21 |
| Natural gas | 3.44 | 5.63 | 5.75 | 6.12 | 8.16 | 8.74 | 9.87 | 12.84 | 13.53 | 15.46 |
| Steam coal | 2.39 | 2.84 | 2.96 | 3.14 | 3.67 | 3.94 | 4.29 | 4.79 | 5.29 | 5.84 |

Table C3. Energy prices by sector and source (continued)
(nominal dollars per million Btu, unless otherwise noted)

| Sector and source | 2012 | Projections | | | | | | | | |
|--|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | | 2020 | | | 2030 | | | 2040 | | |
| | | Low oil price | Reference | High oil price | Low oil price | Reference | High oil price | Low oil price | Reference | High oil price |
| Average price to all users⁹ | | | | | | | | | | |
| Propane | 23.24 | 23.65 | 25.53 | 28.42 | 28.95 | 33.20 | 38.44 | 36.38 | 44.42 | 50.48 |
| E85 ³ | 35.06 | 25.49 | 29.00 | 37.84 | 31.77 | 37.57 | 48.02 | 41.61 | 58.85 | 69.48 |
| Motor gasoline ⁴ | 30.44 | 23.91 | 28.98 | 39.55 | 27.94 | 38.41 | 51.91 | 34.76 | 54.17 | 72.62 |
| Jet fuel ⁵ | 22.99 | 16.07 | 22.06 | 33.32 | 20.12 | 31.91 | 46.18 | 25.67 | 46.53 | 66.66 |
| Distillate fuel oil | 28.36 | 23.12 | 29.11 | 40.47 | 28.04 | 39.94 | 54.81 | 34.77 | 55.61 | 76.43 |
| Residual fuel oil | 20.41 | 10.58 | 14.90 | 23.27 | 13.30 | 21.97 | 32.87 | 17.07 | 32.20 | 48.03 |
| Natural gas | 5.38 | 7.92 | 8.04 | 8.64 | 10.75 | 11.43 | 13.40 | 15.96 | 17.22 | 20.57 |
| Metallurgical coal | 7.25 | 9.40 | 9.55 | 9.84 | 12.35 | 12.81 | 13.51 | 16.04 | 16.91 | 17.87 |
| Other coal | 2.44 | 2.91 | 3.03 | 3.21 | 3.75 | 4.02 | 4.37 | 4.89 | 5.39 | 5.94 |
| Coal to liquids | -- | -- | -- | -- | -- | -- | -- | -- | -- | 5.44 |
| Electricity | 28.85 | 33.19 | 33.66 | 34.52 | 39.94 | 41.13 | 43.87 | 51.73 | 54.11 | 58.76 |
| Non-renewable energy expenditures by sector (billion nominal dollars) | | | | | | | | | | |
| Residential | 234.06 | 277.02 | 282.30 | 293.48 | 352.89 | 367.27 | 392.59 | 481.30 | 508.27 | 549.64 |
| Commercial | 173.25 | 210.13 | 214.56 | 223.56 | 278.14 | 290.65 | 311.47 | 398.63 | 423.44 | 461.77 |
| Industrial ¹ | 213.75 | 281.51 | 316.50 | 383.95 | 375.82 | 461.77 | 571.03 | 499.33 | 648.12 | 825.06 |
| Transportation | 755.09 | 594.71 | 715.87 | 946.80 | 676.84 | 898.80 | 1,133.62 | 875.60 | 1,281.47 | 1,588.74 |
| Total non-renewable expenditures | 1,376.15 | 1,363.37 | 1,529.23 | 1,847.79 | 1,683.69 | 2,018.49 | 2,408.71 | 2,254.86 | 2,861.30 | 3,425.20 |
| Transportation renewable expenditures | 0.50 | 3.21 | 5.54 | 10.87 | 9.57 | 17.45 | 28.36 | 11.24 | 19.56 | 38.98 |
| Total expenditures | 1,376.66 | 1,366.59 | 1,534.77 | 1,858.66 | 1,693.26 | 2,035.94 | 2,437.07 | 2,266.10 | 2,880.86 | 3,464.18 |

¹Includes energy for combined heat and power plants that have a non-regulatory status, and small on-site generating systems.

²Excludes use for lease and plant fuel.

³E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol varies seasonally. The annual average ethanol content of 74 percent is used for this forecast.

⁴Sales weighted-average price for all grades. Includes Federal, State and local taxes.

⁵Kerosene-type jet fuel. Includes Federal and State taxes while excluding county and local taxes.

⁶Diesel fuel for on-road use. Includes Federal and State taxes while excluding county and local taxes.

⁷Natural gas used as fuel in motor vehicles, trains, and ships. Price includes estimated motor vehicle fuel taxes and estimated dispensing costs or charges.

⁸Includes electricity-only and combined heat and power plants that have a regulatory status.

⁹Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption.

Btu = British thermal unit.

-- = Not applicable.

Note: Data for 2012 are model results and may differ from official EIA data reports.

Sources: 2012 prices for motor gasoline, distillate fuel oil, and jet fuel are based on prices in the U.S. Energy Information Administration (EIA), *Petroleum Marketing Monthly*, DOE/EIA-0380(2013/08) (Washington, DC, August 2013). 2012 residential, commercial, and industrial natural gas delivered prices: EIA, *Natural Gas Monthly*, DOE/EIA-0130(2013/06) (Washington, DC, June 2013). 2012 transportation sector natural gas delivered prices are model results. 2012 electric power sector distillate and residual fuel oil prices: EIA, *Monthly Energy Review*, DOE/EIA-0035(2013/09) (Washington, DC, September 2013). 2012 electric power sector natural gas prices: EIA, *Electric Power Monthly*, DOE/EIA-0226, April 2012 and April 2013, Table 4.2, and EIA, *State Energy Data Report 2011*, DOE/EIA-0214(2011) (Washington, DC, June 2013). 2012 coal prices based on: EIA, *Quarterly Coal Report, October-December 2012*, DOE/EIA-0121(2012/4Q) (Washington, DC, March 2013) and EIA, AEO2014 National Energy Modeling System run REF2014.D102413A. 2012 electricity prices: EIA, *Monthly Energy Review*, DOE/EIA-0035(2013/09) (Washington, DC, September 2013). 2012 E85 prices derived from monthly prices in the Clean Cities Alternative Fuel Price Report. Projections: EIA, AEO2014 National Energy Modeling System runs LOWPRICE.D120613A, REF2014.D102413A, and HIGHPRICE.D120613A.

Table C4. Petroleum and other liquids supply and disposition
(million barrels per day, unless otherwise noted)

| Supply and disposition | 2012 | Projections | | | | | | | | |
|--|--------------|---------------|--------------|----------------|---------------|--------------|----------------|---------------|--------------|----------------|
| | | 2020 | | | 2030 | | | 2040 | | |
| | | Low oil price | Reference | High oil price | Low oil price | Reference | High oil price | Low oil price | Reference | High oil price |
| Crude oil | | | | | | | | | | |
| Domestic crude production ¹ | 6.49 | 8.95 | 9.55 | 10.69 | 6.85 | 8.30 | 9.28 | 5.81 | 7.48 | 8.21 |
| Alaska | 0.53 | 0.44 | 0.44 | 0.44 | 0.00 | 0.24 | 0.55 | 0.00 | 0.26 | 0.40 |
| Lower 48 states | 5.96 | 8.51 | 9.12 | 10.25 | 6.85 | 8.06 | 8.73 | 5.81 | 7.22 | 7.81 |
| Net imports | 8.43 | 6.65 | 5.79 | 4.09 | 8.65 | 6.64 | 4.66 | 10.26 | 7.74 | 5.61 |
| Gross imports | 8.49 | 6.80 | 5.94 | 4.25 | 8.78 | 6.77 | 4.79 | 10.38 | 7.87 | 5.73 |
| Exports | 0.06 | 0.15 | 0.15 | 0.15 | 0.13 | 0.13 | 0.13 | 0.12 | 0.12 | 0.12 |
| Other crude supply ² | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total crude supply | 15.01 | 15.59 | 15.34 | 14.78 | 15.50 | 14.94 | 13.94 | 16.07 | 15.22 | 13.81 |
| Other petroleum supply | | | | | | | | | | |
| Net product imports | -0.92 | -0.70 | -0.86 | -0.92 | -1.11 | -1.29 | -1.49 | -1.18 | -1.82 | -2.04 |
| Gross refined product imports ³ | 0.85 | 1.10 | 0.98 | 0.92 | 1.27 | 1.06 | 0.88 | 1.52 | 1.10 | 0.89 |
| Unfinished oil imports | 0.60 | 0.59 | 0.52 | 0.43 | 0.62 | 0.49 | 0.37 | 0.62 | 0.45 | 0.31 |
| Blending component imports | 0.62 | 0.68 | 0.62 | 0.52 | 0.60 | 0.50 | 0.40 | 0.62 | 0.40 | 0.31 |
| Exports | 2.98 | 3.08 | 2.97 | 2.79 | 3.60 | 3.33 | 3.14 | 3.95 | 3.76 | 3.54 |
| Refinery processing gain ⁴ | 1.08 | 1.11 | 1.08 | 0.97 | 1.05 | 0.96 | 0.84 | 1.06 | 0.95 | 0.83 |
| Product stock withdrawal | -0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other non-petroleum supply | 3.48 | 3.90 | 3.96 | 4.00 | 4.19 | 4.32 | 4.43 | 4.11 | 4.36 | 4.88 |
| Supply from renewable sources | 0.89 | 1.01 | 1.01 | 1.01 | 1.03 | 1.04 | 1.03 | 1.04 | 1.07 | 1.09 |
| Ethanol | 0.83 | 0.90 | 0.90 | 0.88 | 0.89 | 0.91 | 0.90 | 0.92 | 0.95 | 0.97 |
| Domestic production | 0.84 | 0.85 | 0.84 | 0.81 | 0.84 | 0.86 | 0.83 | 0.86 | 0.86 | 0.86 |
| Net imports | -0.02 | 0.05 | 0.06 | 0.07 | 0.05 | 0.06 | 0.07 | 0.06 | 0.08 | 0.11 |
| Stock withdrawal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Biodiesel | 0.06 | 0.07 | 0.09 | 0.09 | 0.06 | 0.09 | 0.09 | 0.06 | 0.09 | 0.10 |
| Domestic production | 0.06 | 0.06 | 0.08 | 0.08 | 0.05 | 0.08 | 0.08 | 0.05 | 0.08 | 0.08 |
| Net imports | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Stock withdrawal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other biomass-derived liquids ⁵ | 0.00 | 0.04 | 0.03 | 0.04 | 0.08 | 0.04 | 0.05 | 0.06 | 0.03 | 0.02 |
| Domestic production | 0.00 | 0.04 | 0.03 | 0.04 | 0.08 | 0.04 | 0.05 | 0.06 | 0.03 | 0.02 |
| Net imports | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Stock withdrawal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Liquids from gas | 2.40 | 2.60 | 2.65 | 2.71 | 2.85 | 2.98 | 3.12 | 2.76 | 2.98 | 3.32 |
| Natural gas plant liquids | 2.40 | 2.60 | 2.65 | 2.71 | 2.85 | 2.98 | 3.12 | 2.76 | 2.98 | 3.11 |
| Gas-to-liquids | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.20 |
| Liquids from coal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.20 |
| Other ⁶ | 0.19 | 0.29 | 0.30 | 0.28 | 0.31 | 0.30 | 0.28 | 0.31 | 0.31 | 0.27 |
| Total primary supply ⁷ | 18.59 | 19.90 | 19.52 | 18.84 | 19.64 | 18.93 | 17.72 | 20.06 | 18.72 | 17.49 |
| Product supplied | | | | | | | | | | |
| by fuel | | | | | | | | | | |
| Liquefied petroleum gases and other ⁸ | 2.32 | 2.70 | 2.73 | 2.79 | 2.71 | 2.84 | 2.94 | 2.63 | 2.73 | 2.88 |
| Motor gasoline ⁹ | 8.71 | 8.67 | 8.35 | 7.85 | 7.73 | 7.15 | 6.52 | 7.67 | 6.84 | 6.20 |
| of which: E85 ¹⁰ | 0.01 | 0.09 | 0.13 | 0.20 | 0.21 | 0.32 | 0.41 | 0.19 | 0.23 | 0.39 |
| Jet fuel ¹¹ | 1.40 | 1.49 | 1.49 | 1.49 | 1.55 | 1.55 | 1.55 | 1.59 | 1.59 | 1.59 |
| Distillate fuel oil ¹² | 3.74 | 4.32 | 4.30 | 4.15 | 4.66 | 4.52 | 3.95 | 5.07 | 4.62 | 3.95 |
| of which: Diesel | 3.45 | 3.95 | 3.94 | 3.82 | 4.33 | 4.21 | 3.67 | 4.76 | 4.34 | 3.69 |
| Residual fuel oil | 0.35 | 0.41 | 0.39 | 0.37 | 0.43 | 0.40 | 0.38 | 0.45 | 0.40 | 0.39 |
| Other ¹³ | 1.97 | 2.32 | 2.28 | 2.20 | 2.57 | 2.49 | 2.38 | 2.64 | 2.55 | 2.49 |
| by sector | | | | | | | | | | |
| Residential and commercial | 0.94 | 0.92 | 0.88 | 0.83 | 0.87 | 0.81 | 0.76 | 0.84 | 0.76 | 0.71 |
| Industrial ¹⁴ | 4.42 | 5.39 | 5.37 | 5.35 | 5.69 | 5.72 | 5.69 | 5.70 | 5.68 | 5.74 |
| Transportation | 13.44 | 13.51 | 13.19 | 12.59 | 13.01 | 12.32 | 11.20 | 13.42 | 12.20 | 10.96 |
| Electric power ¹⁵ | 0.10 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.09 | 0.08 | 0.08 |
| Total | 18.49 | 19.91 | 19.53 | 18.84 | 19.65 | 18.94 | 17.73 | 20.06 | 18.73 | 17.50 |
| Discrepancy ¹⁶ | 0.11 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | 0.00 | -0.01 | -0.01 |

Table C4. Petroleum and other liquids supply and disposition (continued)
(million barrels per day, unless otherwise noted)

| Supply and disposition | 2012 | Projections | | | | | | | | |
|---|--------|---------------|-----------|----------------|---------------|-----------|----------------|---------------|-----------|----------------|
| | | 2020 | | | 2030 | | | 2040 | | |
| | | Low oil price | Reference | High oil price | Low oil price | Reference | High oil price | Low oil price | Reference | High oil price |
| Domestic refinery distillation capacity ¹⁷ | 17.3 | 18.1 | 18.1 | 18.1 | 18.1 | 18.1 | 18.1 | 18.1 | 18.1 | 18.1 |
| Capacity utilization rate (percent) ¹⁸ | 89.0 | 86.0 | 84.6 | 81.5 | 85.5 | 82.4 | 76.9 | 88.6 | 84.0 | 76.2 |
| Net import share of product supplied (percent) .. | 40.3 | 30.2 | 25.6 | 17.3 | 38.8 | 28.6 | 18.3 | 45.6 | 32.2 | 21.1 |
| Net expenditures for imported crude oil and petroleum products (billion 2012 dollars) | 313.70 | 160.27 | 198.85 | 226.18 | 214.45 | 278.60 | 290.21 | 264.46 | 385.39 | 408.21 |

¹Includes lease condensate.

²Strategic petroleum reserve stock additions plus unaccounted for crude oil and crude stock withdrawals minus crude product supplied.

³Includes other hydrocarbons and alcohols.

⁴The volumetric amount by which total output is greater than input due to the processing of crude oil into products which, in total, have a lower specific gravity than the crude oil processed.

⁵Includes pyrolysis oils, biomass-derived Fischer-Tropsch liquids, and renewable feedstocks used for the on-site production of diesel and gasoline.

⁶Includes domestic sources of other blending components, other hydrocarbons, and ethers.

⁷Total crude supply plus other petroleum supply plus other non-petroleum supply.

⁸Includes ethane, natural gasoline, and refinery olefins.

⁹Includes ethanol and ethers blended into gasoline.

¹⁰E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol varies seasonally. The annual average ethanol content of 74 percent is used for this forecast.

¹¹Includes only kerosene type.

¹²Includes distillate fuel oil from petroleum and biomass feedstocks.

¹³Includes Kerosene, aviation gasoline, petrochemical feedstocks, lubricants, waxes, asphalt, road oil, still gas, special naphthas, petroleum coke, crude oil product supplied, methanol, and miscellaneous petroleum products.

¹⁴Includes energy for combined heat and power plants that have a non-regulatory status, and small on-site generating systems.

¹⁵Includes consumption of energy by electricity-only and combined heat and power plants that have a regulatory status.

¹⁶Balancing item. Includes unaccounted for supply, losses, and gains.

¹⁷End-of-year operable capacity.

¹⁸Rate is calculated by dividing the gross annual input to atmospheric crude oil distillation units by their operable refining capacity in barrels per calendar day.

Note: Totals may not equal sum of components due to independent rounding. Data for 2012 are model results and may differ from official EIA data reports.

Sources: 2012 product supplied based on: U.S. Energy Information Administration (EIA), *Monthly Energy Review*, DOE/EIA-0035(2013/09) (Washington, DC, September 2013). Other 2012 data: EIA, *Petroleum Supply Annual 2012*, DOE/EIA-0340(2012)/1 (Washington, DC, September 2013). Projections: EIA, AEO2014 National Energy Modeling System runs LOWPRICE.D120613A, REF2014.D102413A, and HIGHPRICE.D120613A.

Table C5. Petroleum and other liquids prices
(2012 dollars per gallon, unless otherwise noted)

| Sector and fuel | 2012 | Projections | | | | | | | | |
|--|-------------|---------------|-------------|----------------|---------------|-------------|----------------|---------------|-------------|----------------|
| | | 2020 | | | 2030 | | | 2040 | | |
| | | Low oil price | Reference | High oil price | Low oil price | Reference | High oil price | Low oil price | Reference | High oil price |
| Crude oil prices (2012 dollars per barrel) | | | | | | | | | | |
| Brent spot..... | 111.65 | 68.90 | 96.57 | 150.28 | 71.90 | 118.99 | 173.69 | 74.90 | 141.46 | 204.24 |
| West Texas Intermediate spot | 94.12 | 66.90 | 94.57 | 148.28 | 69.90 | 116.99 | 171.69 | 72.90 | 139.46 | 202.24 |
| Average imported refiners acquisition cost ¹ .. | 101.10 | 61.93 | 88.07 | 139.34 | 64.73 | 109.22 | 160.61 | 67.84 | 130.80 | 190.62 |
| Delivered sector product prices | | | | | | | | | | |
| Residential | | | | | | | | | | |
| Propane..... | 2.20 | 2.04 | 2.17 | 2.36 | 2.14 | 2.35 | 2.57 | 2.21 | 2.52 | 2.72 |
| Distillate fuel oil | 3.79 | 2.69 | 3.42 | 4.78 | 2.79 | 3.97 | 5.31 | 2.87 | 4.53 | 6.06 |
| Commercial | | | | | | | | | | |
| Distillate fuel oil | 3.70 | 2.29 | 3.00 | 4.34 | 2.40 | 3.54 | 4.86 | 2.46 | 4.10 | 5.59 |
| Residual fuel oil | 3.42 | 1.56 | 2.16 | 3.31 | 1.67 | 2.68 | 3.83 | 1.76 | 3.14 | 4.56 |
| Residual fuel oil (2012 dollars per barrel). | 143.59 | 65.46 | 90.53 | 138.85 | 70.23 | 112.66 | 160.76 | 73.73 | 131.97 | 191.43 |
| Industrial² | | | | | | | | | | |
| Propane..... | 1.93 | 1.72 | 1.89 | 2.13 | 1.85 | 2.13 | 2.43 | 1.98 | 2.36 | 2.64 |
| Distillate fuel oil | 3.76 | 2.34 | 3.05 | 4.38 | 2.43 | 3.58 | 4.90 | 2.49 | 4.11 | 5.62 |
| Residual fuel oil | 3.13 | 1.62 | 2.23 | 3.38 | 1.73 | 2.74 | 3.89 | 1.82 | 3.22 | 4.61 |
| Residual fuel oil (2012 dollars per barrel). | 131.40 | 68.13 | 93.56 | 142.11 | 72.54 | 115.00 | 163.27 | 76.40 | 135.04 | 193.63 |
| Transportation | | | | | | | | | | |
| Propane..... | 2.30 | 2.15 | 2.27 | 2.45 | 2.24 | 2.45 | 2.67 | 2.32 | 2.63 | 2.82 |
| Ethanol (E85) ³ | 3.33 | 2.15 | 2.43 | 3.14 | 2.29 | 2.65 | 3.26 | 2.48 | 3.37 | 3.84 |
| Ethanol wholesale price | 2.58 | 2.58 | 2.66 | 2.81 | 2.50 | 2.52 | 2.63 | 2.34 | 2.65 | 2.80 |
| Motor gasoline ⁴ | 3.69 | 2.55 | 3.08 | 4.16 | 2.55 | 3.43 | 4.45 | 2.61 | 3.90 | 5.04 |
| Jet fuel ⁵ | 3.10 | 1.93 | 2.63 | 3.93 | 2.06 | 3.20 | 4.45 | 2.17 | 3.79 | 5.23 |
| Diesel fuel (distillate fuel oil) ⁶ | 3.95 | 2.96 | 3.67 | 4.99 | 3.06 | 4.20 | 5.51 | 3.11 | 4.73 | 6.23 |
| Residual fuel oil | 3.00 | 1.31 | 1.86 | 2.92 | 1.41 | 2.32 | 3.37 | 1.50 | 2.78 | 4.00 |
| Residual fuel oil (2012 dollars per barrel). | 126.17 | 54.90 | 78.31 | 122.57 | 59.10 | 97.43 | 141.38 | 62.85 | 116.65 | 167.94 |
| Electric power⁷ | | | | | | | | | | |
| Distillate fuel oil | 3.35 | 2.14 | 2.87 | 4.23 | 2.25 | 3.42 | 4.76 | 2.34 | 4.00 | 5.52 |
| Residual fuel oil | 3.10 | 1.48 | 2.07 | 3.22 | 1.57 | 2.57 | 3.74 | 1.61 | 3.06 | 4.45 |
| Residual fuel oil (2012 dollars per barrel). | 130.00 | 62.10 | 87.12 | 135.14 | 65.87 | 107.77 | 156.88 | 67.74 | 128.40 | 187.11 |
| Average prices, all sectors⁸ | | | | | | | | | | |
| Propane..... | 2.12 | 1.92 | 2.06 | 2.27 | 2.01 | 2.25 | 2.51 | 2.08 | 2.45 | 2.68 |
| Motor gasoline ⁴ | 3.66 | 2.55 | 3.08 | 4.16 | 2.55 | 3.43 | 4.45 | 2.61 | 3.90 | 5.04 |
| Jet fuel ⁵ | 3.10 | 1.93 | 2.63 | 3.93 | 2.06 | 3.20 | 4.45 | 2.17 | 3.79 | 5.23 |
| Distillate fuel oil | 3.89 | 2.81 | 3.53 | 4.85 | 2.92 | 4.07 | 5.37 | 2.99 | 4.60 | 6.09 |
| Residual fuel oil | 3.05 | 1.41 | 1.97 | 3.04 | 1.51 | 2.44 | 3.51 | 1.60 | 2.91 | 4.18 |
| Residual fuel oil (2012 dollars per barrel). | 128.30 | 59.05 | 82.69 | 127.85 | 63.52 | 102.60 | 147.61 | 67.25 | 122.12 | 175.49 |
| Average | 3.28 | 2.27 | 2.80 | 3.81 | 2.32 | 3.19 | 4.17 | 2.42 | 3.69 | 4.79 |

Table C5. Petroleum and other liquids prices (continued)
(nominal dollars per gallon, unless otherwise noted)

| Sector and fuel | 2012 | Projections | | | | | | | | |
|--|-------------|---------------|-------------|----------------|---------------|-------------|----------------|---------------|-------------|----------------|
| | | 2020 | | | 2030 | | | 2040 | | |
| | | Low oil price | Reference | High oil price | Low oil price | Reference | High oil price | Low oil price | Reference | High oil price |
| Crude oil prices (nominal dollars per barrel) | | | | | | | | | | |
| Brent spot..... | 111.65 | 77.64 | 109.37 | 171.98 | 94.64 | 160.19 | 243.19 | 119.51 | 234.53 | 351.41 |
| West Texas Intermediate spot..... | 94.12 | 75.39 | 107.11 | 169.69 | 92.01 | 157.49 | 240.39 | 116.32 | 231.22 | 347.97 |
| Average imported refiners acquisition cost ¹ .. | 101.10 | 69.79 | 99.75 | 159.45 | 85.20 | 147.02 | 224.87 | 108.25 | 216.87 | 327.97 |
| Delivered sector product prices | | | | | | | | | | |
| Residential | | | | | | | | | | |
| Propane..... | 2.20 | 2.30 | 2.46 | 2.70 | 2.81 | 3.17 | 3.60 | 3.53 | 4.19 | 4.68 |
| Distillate fuel oil..... | 3.79 | 3.04 | 3.88 | 5.47 | 3.68 | 5.34 | 7.43 | 4.58 | 7.51 | 10.42 |
| Commercial | | | | | | | | | | |
| Distillate fuel oil..... | 3.70 | 2.59 | 3.40 | 4.97 | 3.15 | 4.76 | 6.81 | 3.93 | 6.79 | 9.63 |
| Residual fuel oil..... | 3.42 | 1.76 | 2.44 | 3.78 | 2.20 | 3.61 | 5.36 | 2.80 | 5.21 | 7.84 |
| Industrial² | | | | | | | | | | |
| Propane..... | 1.93 | 1.94 | 2.14 | 2.44 | 2.43 | 2.86 | 3.40 | 3.15 | 3.91 | 4.55 |
| Distillate fuel oil..... | 3.76 | 2.64 | 3.46 | 5.01 | 3.20 | 4.82 | 6.86 | 3.97 | 6.81 | 9.67 |
| Residual fuel oil..... | 3.13 | 1.83 | 2.52 | 3.87 | 2.27 | 3.69 | 5.44 | 2.90 | 5.33 | 7.93 |
| Transportation | | | | | | | | | | |
| Propane..... | 2.30 | 2.42 | 2.57 | 2.81 | 2.95 | 3.30 | 3.74 | 3.71 | 4.36 | 4.85 |
| Ethanol (E85) ³ | 3.33 | 2.42 | 2.76 | 3.60 | 3.02 | 3.57 | 4.56 | 3.96 | 5.59 | 6.60 |
| Ethanol wholesale price..... | 2.58 | 2.91 | 3.02 | 3.22 | 3.29 | 3.39 | 3.68 | 3.73 | 4.39 | 4.82 |
| Motor gasoline ⁴ | 3.69 | 2.88 | 3.49 | 4.76 | 3.36 | 4.61 | 6.23 | 4.17 | 6.47 | 8.68 |
| Jet fuel ⁵ | 3.10 | 2.17 | 2.98 | 4.50 | 2.72 | 4.31 | 6.23 | 3.47 | 6.28 | 9.00 |
| Diesel fuel (distillate fuel oil) ⁶ | 3.95 | 3.34 | 4.16 | 5.71 | 4.03 | 5.66 | 7.71 | 4.97 | 7.84 | 10.72 |
| Residual fuel oil..... | 3.00 | 1.47 | 2.11 | 3.34 | 1.85 | 3.12 | 4.71 | 2.39 | 4.60 | 6.88 |
| Electric power⁷ | | | | | | | | | | |
| Distillate fuel oil..... | 3.35 | 2.42 | 3.25 | 4.84 | 2.97 | 4.60 | 6.66 | 3.73 | 6.62 | 9.49 |
| Residual fuel oil..... | 3.10 | 1.67 | 2.35 | 3.68 | 2.06 | 3.45 | 5.23 | 2.57 | 5.07 | 7.67 |
| Average prices, all sectors⁸ | | | | | | | | | | |
| Propane..... | 2.12 | 2.16 | 2.33 | 2.60 | 2.64 | 3.03 | 3.51 | 3.32 | 4.06 | 4.61 |
| Motor gasoline ⁴ | 3.66 | 2.88 | 3.49 | 4.76 | 3.36 | 4.61 | 6.23 | 4.17 | 6.47 | 8.67 |
| Jet fuel ⁵ | 3.10 | 2.17 | 2.98 | 4.50 | 2.72 | 4.31 | 6.23 | 3.47 | 6.28 | 9.00 |
| Distillate fuel oil..... | 3.89 | 3.17 | 3.99 | 5.55 | 3.85 | 5.48 | 7.52 | 4.77 | 7.63 | 10.48 |
| Residual fuel oil (nominal dollars per barrel) | 128.30 | 66.54 | 93.65 | 146.31 | 83.60 | 138.12 | 206.68 | 107.31 | 202.47 | 301.95 |
| Average | 3.28 | 2.56 | 3.17 | 4.36 | 3.05 | 4.30 | 5.84 | 3.85 | 6.11 | 8.24 |

¹Weighted average price delivered to U.S. refiners.

²Includes combined heat and power plants that have a non-regulatory status, and small on-site generating systems.

³E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol varies seasonally. The annual average ethanol content of 74 percent is used for this forecast.

⁴Sales weighted-average price for all grades. Includes Federal, State and local taxes.

⁵Includes only kerosene type.

⁶Diesel fuel for on-road use. Includes Federal and State taxes while excluding county and local taxes.

⁷Includes electricity-only and combined heat and power plants that have a regulatory status.

⁸Weighted averages of end-use fuel prices are derived from the prices in each sector and the corresponding sectoral consumption.

Note: Data for 2012 are model results and may differ from official EIA data reports.

Sources: 2012 Brent and West Texas Intermediate crude oil spot prices: Thomson Reuters. 2012 average imported crude oil cost: Energy Information Administration (EIA), *Monthly Energy Review*, DOE/EIA-0035Monthly Energy Review. 2012 prices for motor gasoline, distillate fuel oil, and jet fuel are based on: EIA, *Petroleum Marketing Monthly*, DOE/EIA-0380(2013/08) (Washington, DC, August 2013). 2012 residential, commercial, industrial, and transportation sector petroleum product prices are derived from: EIA, Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report." 2012 electric power prices based on: *Monthly Energy Review*, DOE/EIA-0035(2013/09) (Washington, DC, September 2013). 2012 E85 prices derived from monthly prices in the Clean Cities Alternative Fuel Price Report. 2012 wholesale ethanol prices derived from Bloomberg U.S. average rack price. **Projections:** EIA, AEO2014 National Energy Modeling System runs LOWPRICE.D120613A, REF2014.D102413A, and HIGHPRICE.D120613A.

Table C6. International petroleum and other liquids supply, disposition, and prices
(million barrels per day, unless otherwise noted)

| Supply, disposition, and prices | 2012 | Projections | | | | | | | | |
|--|--------------|---------------|--------------|----------------|---------------|---------------|----------------|---------------|---------------|----------------|
| | | 2020 | | | 2030 | | | 2040 | | |
| | | Low oil price | Reference | High oil price | Low oil price | Reference | High oil price | Low oil price | Reference | High oil price |
| Crude oil spot prices | | | | | | | | | | |
| (2012 dollars per barrel) | | | | | | | | | | |
| Brent | 111.65 | 68.90 | 96.57 | 150.28 | 71.90 | 118.99 | 173.69 | 74.90 | 141.46 | 204.24 |
| West Texas Intermediate | 94.12 | 66.90 | 94.57 | 148.28 | 69.90 | 116.99 | 171.69 | 72.90 | 139.46 | 202.24 |
| (nominal dollars per barrel) | | | | | | | | | | |
| Brent | 111.65 | 77.64 | 109.37 | 171.98 | 94.64 | 160.19 | 243.19 | 119.51 | 234.53 | 351.41 |
| West Texas Intermediate | 94.12 | 75.39 | 107.11 | 169.69 | 92.01 | 157.49 | 240.39 | 116.32 | 231.22 | 347.97 |
| Petroleum and other liquids consumption¹ | | | | | | | | | | |
| OECD | | | | | | | | | | |
| United States (50 states) | 18.21 | 19.61 | 19.23 | 18.55 | 19.35 | 18.63 | 17.43 | 19.76 | 18.42 | 17.18 |
| United States territories | 0.25 | 0.31 | 0.29 | 0.28 | 0.35 | 0.33 | 0.32 | 0.39 | 0.37 | 0.36 |
| Canada | 2.26 | 2.35 | 2.24 | 2.15 | 2.36 | 2.18 | 2.13 | 2.46 | 2.30 | 2.31 |
| Mexico and Chile | 2.51 | 2.78 | 2.71 | 2.61 | 3.32 | 3.08 | 3.02 | 4.00 | 3.63 | 3.60 |
| OECD Europe ² | 14.21 | 14.47 | 13.85 | 13.30 | 15.06 | 13.94 | 13.49 | 15.80 | 14.32 | 13.93 |
| Japan | 4.75 | 4.75 | 4.50 | 4.28 | 4.69 | 4.29 | 4.13 | 4.49 | 4.05 | 3.90 |
| South Korea | 2.65 | 2.74 | 2.76 | 2.65 | 2.97 | 2.68 | 2.58 | 3.18 | 2.76 | 2.68 |
| Australia and New Zealand | 1.28 | 1.22 | 1.23 | 1.18 | 1.28 | 1.21 | 1.19 | 1.40 | 1.30 | 1.28 |
| Total OECD consumption | 46.13 | 48.23 | 46.82 | 45.01 | 49.39 | 46.37 | 44.30 | 51.47 | 47.15 | 45.22 |
| Non-OECD | | | | | | | | | | |
| Russia | 3.20 | 3.77 | 3.55 | 3.43 | 4.14 | 3.81 | 3.72 | 4.29 | 3.92 | 3.85 |
| Other Europe and Eurasia ³ | 1.99 | 2.52 | 2.32 | 2.25 | 2.88 | 2.62 | 2.54 | 3.45 | 3.08 | 3.00 |
| China | 10.36 | 13.90 | 13.91 | 13.63 | 16.49 | 17.04 | 17.73 | 18.78 | 20.48 | 22.98 |
| India | 3.68 | 4.58 | 4.50 | 4.38 | 6.52 | 6.11 | 6.19 | 8.89 | 8.33 | 8.94 |
| Other Asia ⁴ | 6.97 | 8.14 | 7.99 | 7.71 | 9.47 | 9.35 | 9.28 | 11.01 | 11.16 | 11.36 |
| Middle East | 7.67 | 8.64 | 8.81 | 8.54 | 9.15 | 9.22 | 9.22 | 10.00 | 10.38 | 10.74 |
| Africa | 3.47 | 3.79 | 3.70 | 3.55 | 4.16 | 4.03 | 3.93 | 4.52 | 4.58 | 4.54 |
| Brazil | 2.83 | 3.18 | 3.12 | 2.96 | 3.50 | 3.32 | 3.25 | 3.88 | 3.85 | 3.94 |
| Other Central and South America | 2.77 | 3.53 | 3.29 | 3.16 | 3.95 | 3.76 | 3.62 | 4.38 | 4.13 | 4.00 |
| Total non-OECD consumption | 42.94 | 52.06 | 51.19 | 49.60 | 60.26 | 59.24 | 59.48 | 69.20 | 69.90 | 73.35 |
| Total consumption | 89.07 | 100.29 | 98.01 | 94.61 | 109.65 | 105.61 | 103.78 | 120.68 | 117.05 | 118.57 |
| Petroleum and other liquids production | | | | | | | | | | |
| OPEC ⁵ | | | | | | | | | | |
| Middle East | 25.84 | 29.62 | 28.28 | 23.24 | 35.30 | 32.35 | 27.29 | 44.28 | 38.85 | 32.84 |
| North Africa | 3.36 | 3.74 | 3.19 | 2.95 | 3.99 | 3.43 | 3.25 | 4.62 | 3.96 | 3.69 |
| West Africa | 4.40 | 5.79 | 4.99 | 4.71 | 6.46 | 5.26 | 5.15 | 7.06 | 5.52 | 5.38 |
| South America | 2.99 | 3.56 | 3.10 | 2.98 | 4.13 | 3.01 | 2.98 | 5.10 | 3.31 | 3.24 |
| Total OPEC production | 36.59 | 42.71 | 39.57 | 33.88 | 49.87 | 44.04 | 38.68 | 61.06 | 51.64 | 45.15 |
| Non-OPEC | | | | | | | | | | |
| OECD | | | | | | | | | | |
| United States (50 states) | 10.84 | 13.63 | 14.25 | 15.30 | 11.73 | 13.23 | 14.19 | 10.63 | 12.42 | 13.52 |
| Canada | 4.00 | 5.18 | 5.10 | 6.00 | 6.15 | 5.92 | 7.24 | 5.77 | 6.21 | 7.81 |
| Mexico and Chile | 2.97 | 1.93 | 2.13 | 1.92 | 1.75 | 2.11 | 1.95 | 1.68 | 2.27 | 2.15 |
| OECD Europe ² | 3.93 | 3.24 | 3.26 | 3.24 | 2.86 | 2.78 | 2.73 | 3.74 | 3.63 | 3.72 |
| Japan and South Korea | 0.18 | 0.18 | 0.16 | 0.17 | 0.20 | 0.18 | 0.18 | 0.21 | 0.19 | 0.19 |
| Australia and New Zealand | 0.57 | 0.53 | 0.54 | 0.52 | 0.56 | 0.56 | 0.55 | 0.83 | 0.92 | 0.93 |
| Total OECD production | 22.48 | 24.69 | 25.44 | 27.15 | 23.25 | 24.78 | 26.84 | 22.85 | 25.64 | 28.31 |
| Non-OECD | | | | | | | | | | |
| Russia | 10.40 | 10.22 | 10.74 | 10.76 | 10.81 | 11.44 | 11.41 | 10.86 | 11.68 | 11.98 |
| Other Europe and Eurasia ³ | 3.19 | 3.86 | 3.73 | 3.89 | 4.02 | 4.44 | 4.50 | 3.56 | 5.44 | 5.54 |
| China | 4.37 | 4.49 | 4.91 | 4.56 | 5.51 | 5.50 | 5.80 | 5.63 | 5.62 | 8.43 |
| Other Asia ⁴ | 3.82 | 3.41 | 3.63 | 3.41 | 3.04 | 3.20 | 2.96 | 3.10 | 3.31 | 3.11 |
| Middle East | 1.31 | 1.19 | 0.98 | 1.18 | 1.07 | 0.77 | 1.03 | 0.95 | 0.71 | 0.95 |
| Africa | 2.34 | 2.91 | 2.61 | 2.95 | 2.97 | 2.57 | 2.96 | 3.32 | 2.91 | 3.41 |
| Brazil | 2.49 | 4.81 | 4.00 | 4.80 | 7.03 | 6.36 | 7.46 | 6.65 | 7.03 | 8.95 |
| Other Central and South America | 2.16 | 2.23 | 2.38 | 2.26 | 2.32 | 2.44 | 2.32 | 2.90 | 3.06 | 3.00 |
| Total non-OECD production | 30.08 | 33.13 | 32.98 | 33.81 | 36.77 | 36.73 | 38.43 | 36.97 | 39.75 | 45.37 |
| Total petroleum and other liquids production | 89.15 | 100.53 | 97.99 | 94.84 | 109.89 | 105.55 | 103.95 | 120.89 | 117.03 | 118.83 |
| OPEC market share (percent) | 41.0 | 42.5 | 40.4 | 35.7 | 45.4 | 41.7 | 37.2 | 50.5 | 44.1 | 38.0 |

Table C6. International petroleum and other liquids supply, disposition, and prices (continued)
(million barrels per day, unless otherwise noted)

| Supply, disposition, and prices | 2012 | Projections | | | | | | | | |
|---|--------------|---------------|--------------|----------------|---------------|---------------|----------------|---------------|---------------|----------------|
| | | 2020 | | | 2030 | | | 2040 | | |
| | | Low oil price | Reference | High oil price | Low oil price | Reference | High oil price | Low oil price | Reference | High oil price |
| Selected world production subtotals: | | | | | | | | | | |
| Petroleum | | | | | | | | | | |
| Crude oil and equivalents ⁶ | 75.78 | 85.10 | 82.35 | 79.06 | 91.71 | 87.58 | 85.40 | 99.82 | 96.56 | 95.06 |
| Tight oil..... | 2.40 | 5.28 | 5.81 | 6.78 | 5.79 | 6.88 | 7.42 | 6.04 | 7.28 | 9.00 |
| Bitumen ⁷ | 1.94 | 3.18 | 3.00 | 3.87 | 4.29 | 3.95 | 5.19 | 3.99 | 4.26 | 5.71 |
| Refinery processing gain ⁸ | 2.37 | 2.40 | 2.26 | 2.11 | 2.70 | 2.52 | 2.32 | 3.00 | 2.86 | 2.52 |
| Liquids from renewable sources ⁹ | 1.34 | 1.83 | 1.68 | 1.91 | 2.79 | 2.09 | 2.52 | 4.10 | 2.48 | 4.21 |
| Liquids from coal ¹⁰ | 0.19 | 0.36 | 0.40 | 0.53 | 0.82 | 0.91 | 1.15 | 0.98 | 1.12 | 2.78 |
| Liquids from natural gas..... | 9.21 | 10.36 | 10.78 | 10.76 | 11.56 | 12.19 | 12.39 | 12.37 | 13.29 | 13.56 |
| Natural gas plant liquids..... | 9.05 | 10.06 | 10.46 | 10.47 | 11.24 | 11.84 | 12.07 | 12.05 | 12.93 | 13.10 |
| Gas-to-liquids ¹¹ | 0.16 | 0.30 | 0.31 | 0.29 | 0.32 | 0.35 | 0.32 | 0.31 | 0.35 | 0.46 |
| Liquids from kerogen ¹² | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Petroleum production¹³ | | | | | | | | | | |
| OPEC ⁵ | | | | | | | | | | |
| Middle East..... | 25.74 | 29.42 | 28.07 | 23.06 | 35.07 | 32.10 | 27.07 | 44.06 | 38.61 | 32.62 |
| North Africa..... | 3.36 | 3.74 | 3.19 | 2.95 | 3.99 | 3.43 | 3.25 | 4.62 | 3.96 | 3.69 |
| West Africa..... | 4.40 | 5.76 | 4.96 | 4.68 | 6.42 | 5.22 | 5.12 | 7.03 | 5.49 | 5.35 |
| South America..... | 2.99 | 3.56 | 3.10 | 2.98 | 4.13 | 3.01 | 2.98 | 5.10 | 3.31 | 3.24 |
| Total OPEC production..... | 36.50 | 42.48 | 39.33 | 33.67 | 49.62 | 43.77 | 38.44 | 60.81 | 51.37 | 44.90 |
| Non-OPEC | | | | | | | | | | |
| OECD | | | | | | | | | | |
| United States (50 states)..... | 10.00 | 12.66 | 13.28 | 14.37 | 10.75 | 12.24 | 13.24 | 9.64 | 11.42 | 12.15 |
| Canada..... | 3.97 | 5.15 | 5.08 | 5.97 | 6.09 | 5.88 | 7.19 | 5.69 | 6.17 | 7.73 |
| Mexico and Chile..... | 2.97 | 1.93 | 2.13 | 1.92 | 1.75 | 2.11 | 1.95 | 1.68 | 2.27 | 2.15 |
| OECD Europe ² | 3.71 | 3.02 | 3.03 | 3.00 | 2.55 | 2.53 | 2.45 | 3.31 | 3.35 | 3.27 |
| Japan and South Korea..... | 0.17 | 0.18 | 0.15 | 0.16 | 0.19 | 0.17 | 0.17 | 0.19 | 0.18 | 0.18 |
| Australia and New Zealand..... | 0.56 | 0.52 | 0.53 | 0.51 | 0.54 | 0.55 | 0.54 | 0.81 | 0.91 | 0.91 |
| Total OECD production..... | 21.39 | 23.46 | 24.21 | 25.93 | 21.87 | 23.49 | 25.55 | 21.32 | 24.30 | 26.39 |
| Non-OECD | | | | | | | | | | |
| Russia..... | 10.40 | 10.22 | 10.74 | 10.76 | 10.81 | 11.44 | 11.41 | 10.86 | 11.68 | 11.98 |
| Other Europe and Eurasia ³ | 3.19 | 3.85 | 3.73 | 3.89 | 4.01 | 4.44 | 4.49 | 3.55 | 5.43 | 5.53 |
| China..... | 4.32 | 4.35 | 4.77 | 4.27 | 4.76 | 4.82 | 4.83 | 4.60 | 4.72 | 6.04 |
| Other Asia ⁴ | 3.75 | 3.29 | 3.51 | 3.27 | 2.82 | 2.99 | 2.73 | 2.85 | 3.10 | 2.82 |
| Middle East..... | 1.31 | 1.19 | 0.98 | 1.18 | 1.07 | 0.77 | 1.03 | 0.95 | 0.71 | 0.95 |
| Africa..... | 2.13 | 2.61 | 2.28 | 2.61 | 2.66 | 2.22 | 2.58 | 3.02 | 2.55 | 3.01 |
| Brazil..... | 2.20 | 4.19 | 3.50 | 4.13 | 5.88 | 5.65 | 6.46 | 4.53 | 6.00 | 6.78 |
| Other Central and South America..... | 2.06 | 2.15 | 2.30 | 2.18 | 2.21 | 2.36 | 2.22 | 2.74 | 2.97 | 2.84 |
| Total non-OECD production..... | 29.35 | 31.85 | 31.81 | 32.29 | 34.22 | 34.69 | 35.76 | 33.10 | 37.15 | 39.94 |
| Total petroleum production¹³..... | 87.24 | 97.79 | 95.34 | 91.90 | 105.71 | 101.95 | 99.75 | 115.23 | 112.82 | 111.23 |
| OPEC market share (percent)..... | 41.8 | 43.4 | 41.2 | 36.6 | 46.9 | 42.9 | 38.5 | 52.8 | 45.5 | 40.4 |

¹Estimated consumption. Includes both OPEC and non-OPEC consumers in the regional breakdown.

²OECD Europe - Austria, Belgium, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

³Other Europe and Eurasia = Albania, Armenia, Azerbaijan, Belarus, Bosnia and Herzegovina, Bulgaria, Croatia, Georgia, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, Macedonia, Malta, Moldova, Montenegro, Romania, Serbia, Tajikistan, Turkmenistan, Ukraine, and Uzbekistan.

⁴Other Asia = Afghanistan, Bangladesh, Bhutan, Brunei, Cambodia (Kampuchea), Fiji, French Polynesia, Guam, Hong Kong, India (for production), Indonesia, Kiribati, Laos, Malaysia, Macau, Maldives, Mongolia, Myanmar (Burma), Nauru, Nepal, New Caledonia, Niue, North Korea, Pakistan, Papua New Guinea, Philippines, Samoa, Singapore, Solomon Islands, Sri Lanka, Taiwan, Thailand, Tonga, Vanuatu, and Vietnam.

⁵OPEC = Organization of the Petroleum Exporting Countries - Algeria, Angola, Ecuador, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, the United Arab Emirates, and Venezuela.

⁶Includes crude oil, lease condensate, tight oil (shale oil), extra-heavy oil, and bitumen (oil sands).

⁷Includes diluted and upgraded/synthetic bitumen (syncrude).

⁸The volumetric amount by which total output is greater than input due to the processing of crude oil into products which, in total, have a lower specific gravity than the crude oil processed.

⁹Includes liquids produced from energy crops.

¹⁰Includes liquids converted from coal via the Fischer-Tropsch coal-to-liquids process.

¹¹Includes liquids converted from natural gas via the Fischer-Tropsch natural-gas-to-liquids process.

¹²Includes liquids produced from kerogen (oil shale, not to be confused with tight oil (shale oil)).

¹³Includes production of crude oil (including lease condensate, tight oil (shale oil), extra-heavy oil, and bitumen (oil sands)), natural gas plant liquids, refinery gains, and other hydrogen and hydrocarbons for refinery feedstocks.

OECD = Organization for Economic Cooperation and Development.

Note: Ethanol is represented in motor gasoline equivalent barrels. Totals may not equal sum of components due to independent rounding. Data for 2012 are model results and may differ from official EIA data reports.

Sources: 2012 Brent and West Texas Intermediate crude oil spot prices: Thomson Reuters. 2012 quantities and projections: Energy Information Administration (EIA), AEO2014 National Energy Modeling System runs LOWPRICE.D120613A, REF2014.D102413A, and HIGHPRICE.D120613A and EIA, Generate World Oil Balance Model.