

## Price case comparisons

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

| Supply, disposition, and prices                | 2010         | Projections   |              |                |               |               |                |               |               |                |
|------------------------------------------------|--------------|---------------|--------------|----------------|---------------|---------------|----------------|---------------|---------------|----------------|
|                                                |              | 2015          |              |                | 2025          |               |                | 2035          |               |                |
|                                                |              | Low oil price | Reference    | High oil price | Low oil price | Reference     | High oil price | Low oil price | Reference     | High oil price |
| <b>Production</b>                              |              |               |              |                |               |               |                |               |               |                |
| Crude oil and lease condensate                 | 11.59        | 12.66         | 13.23        | 13.79          | 11.57         | 13.77         | 15.60          | 10.29         | 12.89         | 14.37          |
| Natural gas plant liquids                      | 2.78         | 3.15          | 3.33         | 3.34           | 3.84          | 3.93          | 4.01           | 3.80          | 3.94          | 4.00           |
| Dry natural gas                                | 22.10        | 24.02         | 24.22        | 24.44          | 26.20         | 26.91         | 27.65          | 27.80         | 28.60         | 29.38          |
| Coal <sup>1</sup>                              | 22.06        | 20.76         | 20.24        | 19.80          | 22.39         | 22.25         | 23.45          | 23.59         | 24.14         | 27.73          |
| Nuclear / uranium <sup>2</sup>                 | 8.44         | 8.68          | 8.68         | 8.68           | 9.60          | 9.60          | 9.60           | 9.42          | 9.28          | 9.26           |
| Hydropower                                     | 2.51         | 2.90          | 2.90         | 2.90           | 2.99          | 2.99          | 2.98           | 3.05          | 3.04          | 3.04           |
| Biomass <sup>3</sup>                           | 4.05         | 4.52          | 4.45         | 4.67           | 6.14          | 6.26          | 7.14           | 7.92          | 9.07          | 11.33          |
| Other renewable energy <sup>4</sup>            | 1.34         | 1.94          | 1.99         | 2.02           | 2.18          | 2.22          | 2.19           | 2.87          | 2.81          | 2.66           |
| Other <sup>5</sup>                             | 0.64         | 0.54          | 0.60         | 0.82           | 0.55          | 0.69          | 0.77           | 0.68          | 0.91          | 0.90           |
| <b>Total</b>                                   | <b>75.50</b> | <b>79.18</b>  | <b>79.64</b> | <b>80.46</b>   | <b>85.46</b>  | <b>88.61</b>  | <b>93.38</b>   | <b>89.43</b>  | <b>94.67</b>  | <b>102.65</b>  |
| <b>Imports</b>                                 |              |               |              |                |               |               |                |               |               |                |
| Crude oil                                      | 20.14        | 21.26         | 18.87        | 17.01          | 21.30         | 16.23         | 12.08          | 23.88         | 16.90         | 11.22          |
| Liquid fuels and other petroleum <sup>6</sup>  | 5.02         | 4.97          | 4.32         | 3.89           | 5.08          | 4.08          | 3.43           | 5.40          | 4.14          | 3.26           |
| Natural gas <sup>7</sup>                       | 3.81         | 3.87          | 3.73         | 3.69           | 3.16          | 2.75          | 2.55           | 3.28          | 2.84          | 2.57           |
| Other imports <sup>8</sup>                     | 0.52         | 0.47          | 0.44         | 0.40           | 0.83          | 1.07          | 0.81           | 0.87          | 0.81          | 0.76           |
| <b>Total</b>                                   | <b>29.49</b> | <b>30.58</b>  | <b>27.37</b> | <b>24.98</b>   | <b>30.37</b>  | <b>24.14</b>  | <b>18.88</b>   | <b>33.42</b>  | <b>24.69</b>  | <b>17.82</b>   |
| <b>Exports</b>                                 |              |               |              |                |               |               |                |               |               |                |
| Liquid fuels and other petroleum <sup>9</sup>  | 4.81         | 5.16          | 5.00         | 4.95           | 4.51          | 4.46          | 4.58           | 4.89          | 4.95          | 5.02           |
| Natural gas <sup>10</sup>                      | 1.15         | 1.93          | 1.93         | 1.93           | 3.51          | 3.51          | 3.52           | 4.17          | 4.17          | 4.18           |
| Coal                                           | 2.10         | 2.73          | 2.73         | 2.73           | 2.82          | 2.82          | 2.67           | 3.22          | 3.13          | 3.13           |
| <b>Total</b>                                   | <b>8.06</b>  | <b>9.82</b>   | <b>9.66</b>  | <b>9.62</b>    | <b>10.84</b>  | <b>10.79</b>  | <b>10.76</b>   | <b>12.28</b>  | <b>12.25</b>  | <b>12.33</b>   |
| <b>Discrepancy<sup>11</sup></b>                | <b>-1.23</b> | <b>0.04</b>   | <b>-0.08</b> | <b>0.01</b>    | <b>0.09</b>   | <b>-0.03</b>  | <b>-0.01</b>   | <b>0.23</b>   | <b>0.18</b>   | <b>0.27</b>    |
| <b>Consumption</b>                             |              |               |              |                |               |               |                |               |               |                |
| Liquid fuels and other petroleum <sup>12</sup> | 37.25        | 38.73         | 36.72        | 35.31          | 39.70         | 36.58         | 35.03          | 41.86         | 37.70         | 35.86          |
| Natural gas                                    | 24.71        | 25.93         | 26.00        | 26.18          | 25.80         | 26.14         | 26.57          | 26.86         | 27.26         | 27.67          |
| Coal <sup>13</sup>                             | 20.76        | 18.35         | 17.80        | 17.30          | 20.17         | 20.02         | 20.39          | 21.05         | 21.15         | 22.69          |
| Nuclear / uranium <sup>2</sup>                 | 8.44         | 8.68          | 8.68         | 8.68           | 9.60          | 9.60          | 9.60           | 9.42          | 9.28          | 9.26           |
| Hydropower                                     | 2.51         | 2.90          | 2.90         | 2.90           | 2.99          | 2.99          | 2.98           | 3.05          | 3.04          | 3.04           |
| Biomass <sup>14</sup>                          | 2.88         | 3.06          | 3.04         | 3.13           | 4.19          | 4.17          | 4.48           | 4.98          | 5.44          | 6.45           |
| Other renewable energy <sup>4</sup>            | 1.34         | 1.94          | 1.99         | 2.02           | 2.18          | 2.22          | 2.19           | 2.87          | 2.81          | 2.66           |
| Other <sup>15</sup>                            | 0.29         | 0.30          | 0.30         | 0.30           | 0.28          | 0.28          | 0.28           | 0.24          | 0.24          | 0.24           |
| <b>Total</b>                                   | <b>98.16</b> | <b>99.89</b>  | <b>97.43</b> | <b>95.82</b>   | <b>104.90</b> | <b>101.99</b> | <b>101.52</b>  | <b>110.34</b> | <b>106.93</b> | <b>107.87</b>  |
| <b>Prices (2010 dollars per unit)</b>          |              |               |              |                |               |               |                |               |               |                |
| Petroleum (dollars per barrel)                 |              |               |              |                |               |               |                |               |               |                |
| Low sulfur light crude oil <sup>16</sup>       | 79.39        | 58.36         | 116.91       | 182.10         | 59.41         | 132.56        | 193.48         | 62.38         | 144.98        | 200.36         |
| Imported crude oil <sup>16</sup>               | 75.87        | 55.41         | 113.97       | 179.16         | 48.84         | 121.21        | 180.29         | 53.10         | 132.95        | 187.04         |
| Natural gas (dollars per million Btu)          |              |               |              |                |               |               |                |               |               |                |
| at Henry hub                                   | 4.39         | 4.21          | 4.29         | 4.26           | 5.61          | 5.63          | 5.60           | 7.36          | 7.37          | 7.17           |
| at the wellhead <sup>17</sup>                  | 4.06         | 3.78          | 3.84         | 3.81           | 4.98          | 5.00          | 4.97           | 6.47          | 6.48          | 6.31           |
| Natural gas (dollars per thousand cubic feet)  |              |               |              |                |               |               |                |               |               |                |
| at the wellhead <sup>17</sup>                  | 4.16         | 3.87          | 3.94         | 3.91           | 5.10          | 5.12          | 5.09           | 6.63          | 6.64          | 6.46           |
| Coal (dollars per ton)                         |              |               |              |                |               |               |                |               |               |                |
| at the minemouth <sup>18</sup>                 | 35.61        | 39.93         | 42.08        | 44.26          | 41.50         | 44.05         | 45.62          | 47.24         | 50.52         | 51.12          |
| Coal (dollars per million Btu)                 |              |               |              |                |               |               |                |               |               |                |
| at the minemouth <sup>18</sup>                 | 1.76         | 1.98          | 2.08         | 2.18           | 2.10          | 2.23          | 2.31           | 2.40          | 2.56          | 2.62           |
| Average end-use <sup>19</sup>                  | 2.38         | 2.42          | 2.56         | 2.68           | 2.51          | 2.70          | 2.81           | 2.73          | 2.94          | 3.07           |
| Average electricity (cents per kilowatthour)   | 9.8          | 9.5           | 9.7          | 9.9            | 9.5           | 9.7           | 9.9            | 10.0          | 10.1          | 10.2           |

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

| Supply, disposition, and prices               | 2010  | Projections   |           |                |               |           |                |               |           |                |
|-----------------------------------------------|-------|---------------|-----------|----------------|---------------|-----------|----------------|---------------|-----------|----------------|
|                                               |       | 2015          |           |                | 2025          |           |                | 2035          |           |                |
|                                               |       | Low oil price | Reference | High oil price | Low oil price | Reference | High oil price | Low oil price | Reference | High oil price |
| <b>Prices (nominal dollars per unit)</b>      |       |               |           |                |               |           |                |               |           |                |
| Petroleum (dollars per barrel)                |       |               |           |                |               |           |                |               |           |                |
| Low sulfur light crude oil <sup>16</sup>      | 79.39 | 62.81         | 125.97    | 195.67         | 77.32         | 170.09    | 245.37         | 98.91         | 229.55    | 314.93         |
| Imported crude oil <sup>16</sup>              | 75.87 | 59.64         | 122.81    | 192.52         | 63.56         | 155.52    | 228.64         | 84.19         | 210.51    | 294.00         |
| Natural gas (dollars per million Btu)         |       |               |           |                |               |           |                |               |           |                |
| at Henry hub                                  | 4.39  | 4.54          | 4.62      | 4.57           | 7.30          | 7.23      | 7.10           | 11.67         | 11.67     | 11.26          |
| at the wellhead <sup>17</sup>                 | 4.06  | 4.07          | 4.14      | 4.10           | 6.48          | 6.42      | 6.30           | 10.26         | 10.26     | 9.91           |
| Natural gas (dollars per thousand cubic feet) |       |               |           |                |               |           |                |               |           |                |
| at the wellhead <sup>17</sup>                 | 4.16  | 4.16          | 4.24      | 4.20           | 6.64          | 6.57      | 6.46           | 10.51         | 10.51     | 10.15          |
| Coal (dollars per ton)                        |       |               |           |                |               |           |                |               |           |                |
| at the minemouth <sup>18</sup>                | 35.61 | 42.97         | 45.34     | 47.56          | 54.01         | 56.52     | 57.86          | 74.91         | 80.00     | 80.35          |
| Coal (dollars per million Btu)                |       |               |           |                |               |           |                |               |           |                |
| at the minemouth <sup>18</sup>                | 1.76  | 2.13          | 2.24      | 2.34           | 2.74          | 2.86      | 2.93           | 3.81          | 4.05      | 4.12           |
| Average end-use <sup>19</sup>                 | 2.38  | 2.61          | 2.76      | 2.88           | 3.27          | 3.47      | 3.56           | 4.33          | 4.66      | 4.83           |
| Average electricity (cents per kilowatthour)  | 9.8   | 10.2          | 10.4      | 10.6           | 12.4          | 12.5      | 12.6           | 15.9          | 16.0      | 16.0           |

<sup>1</sup>Includes waste coal.

<sup>2</sup>These 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.

<sup>3</sup>Includes 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.

<sup>4</sup>Includes 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.

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

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

<sup>7</sup>Includes imports of liquefied natural gas that is later re-exported.

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

<sup>9</sup>Includes crude oil, petroleum products, ethanol, and biodiesel.

<sup>10</sup>Includes re-exported liquefied natural gas and natural gas used for liquefaction at export terminals.

<sup>11</sup>Balancing item. Includes unaccounted for supply, losses, gains, and net storage withdrawals.

<sup>12</sup>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.

<sup>13</sup>Excludes coal converted to coal-based synthetic liquids and natural gas.

<sup>14</sup>Includes 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.

<sup>15</sup>Includes non-biogenic municipal waste, liquid hydrogen, and net electricity imports.

<sup>16</sup>Weighted average price delivered to U.S. refiners.

<sup>17</sup>Represents lower 48 onshore and offshore supplies.

<sup>18</sup>Includes reported prices for both open market and captive mines.

<sup>19</sup>Prices weighted by consumption; weighted average excludes residential and commercial prices, and 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 2010 are model results and may differ slightly from official EIA data reports.

Sources: 2010 natural gas supply values and natural gas wellhead price: U.S. Energy Information Administration (EIA), *Natural Gas Monthly*, DOE/EIA-0130(2011/07) (Washington, DC, July 2011). 2010 coal minemouth and delivered coal prices: EIA, *Annual Energy Review 2010*, DOE/EIA-0384(2010) (Washington, DC, October 2011). 2010 petroleum supply values: EIA, *Petroleum Supply Annual 2010*, DOE/EIA-0340(2010)/1 (Washington, DC, July 2011). 2010 low sulfur light crude oil price: EIA, Form EIA-856, "Monthly Foreign Crude Oil Acquisition Report." Other 2010 coal values: *Quarterly Coal Report, October-December 2010*, DOE/EIA-0121(2010/4Q) (Washington, DC, May 2011). Other 2010 values: EIA, *Annual Energy Review 2010*, DOE/EIA-0384(2010) (Washington, DC, October 2011). Projections: EIA, AEO2012 National Energy Modeling System runs LP2012.D022112A, REF2012.D020112C, and HP2012.D022112A.

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

| Sector and source                         | 2010         | Projections   |              |                |               |              |                |               |              |                |
|-------------------------------------------|--------------|---------------|--------------|----------------|---------------|--------------|----------------|---------------|--------------|----------------|
|                                           |              | 2015          |              |                | 2025          |              |                | 2035          |              |                |
|                                           |              | Low oil price | Reference    | High oil price | Low oil price | Reference    | High oil price | Low oil price | Reference    | High oil price |
| <b>Energy consumption</b>                 |              |               |              |                |               |              |                |               |              |                |
| <b>Residential</b>                        |              |               |              |                |               |              |                |               |              |                |
| Liquefied petroleum gases                 | 0.56         | 0.54          | 0.51         | 0.49           | 0.55          | 0.50         | 0.48           | 0.55          | 0.51         | 0.48           |
| Kerosene                                  | 0.03         | 0.03          | 0.02         | 0.02           | 0.03          | 0.02         | 0.02           | 0.02          | 0.02         | 0.02           |
| Distillate fuel oil                       | 0.63         | 0.61          | 0.55         | 0.51           | 0.49          | 0.43         | 0.40           | 0.41          | 0.35         | 0.33           |
| Liquid fuels and other petroleum subtotal | 1.22         | 1.17          | 1.08         | 1.02           | 1.07          | 0.95         | 0.90           | 0.99          | 0.87         | 0.82           |
| Natural gas                               | 5.06         | 4.98          | 4.97         | 4.98           | 4.88          | 4.88         | 4.90           | 4.74          | 4.76         | 4.78           |
| Coal                                      | 0.01         | 0.01          | 0.01         | 0.01           | 0.01          | 0.01         | 0.01           | 0.01          | 0.01         | 0.01           |
| Renewable energy <sup>1</sup>             | 0.42         | 0.37          | 0.43         | 0.48           | 0.36          | 0.43         | 0.48           | 0.35          | 0.43         | 0.47           |
| Electricity                               | 4.95         | 4.78          | 4.75         | 4.71           | 5.27          | 5.23         | 5.20           | 5.90          | 5.86         | 5.83           |
| <b>Delivered energy</b>                   | <b>11.66</b> | <b>11.31</b>  | <b>11.24</b> | <b>11.19</b>   | <b>11.58</b>  | <b>11.51</b> | <b>11.48</b>   | <b>11.98</b>  | <b>11.93</b> | <b>11.91</b>   |
| Electricity related losses                | 10.39        | 9.68          | 9.58         | 9.47           | 10.66         | 10.52        | 10.34          | 11.58         | 11.35        | 11.02          |
| <b>Total</b>                              | <b>22.05</b> | <b>20.99</b>  | <b>20.81</b> | <b>20.66</b>   | <b>22.24</b>  | <b>22.02</b> | <b>21.82</b>   | <b>23.56</b>  | <b>23.28</b> | <b>22.93</b>   |
| <b>Commercial</b>                         |              |               |              |                |               |              |                |               |              |                |
| Liquefied petroleum gases                 | 0.14         | 0.16          | 0.14         | 0.12           | 0.18          | 0.15         | 0.13           | 0.19          | 0.16         | 0.14           |
| Motor gasoline <sup>2</sup>               | 0.05         | 0.06          | 0.05         | 0.04           | 0.06          | 0.05         | 0.05           | 0.07          | 0.06         | 0.06           |
| Kerosene                                  | 0.00         | 0.01          | 0.00         | 0.00           | 0.01          | 0.00         | 0.00           | 0.01          | 0.01         | 0.01           |
| Distillate fuel oil                       | 0.43         | 0.41          | 0.35         | 0.32           | 0.41          | 0.33         | 0.30           | 0.41          | 0.32         | 0.30           |
| Residual fuel oil                         | 0.08         | 0.13          | 0.08         | 0.06           | 0.14          | 0.08         | 0.06           | 0.14          | 0.08         | 0.07           |
| Liquid fuels and other petroleum subtotal | 0.72         | 0.76          | 0.62         | 0.55           | 0.79          | 0.62         | 0.56           | 0.81          | 0.62         | 0.57           |
| Natural gas                               | 3.28         | 3.42          | 3.41         | 3.42           | 3.51          | 3.53         | 3.55           | 3.64          | 3.69         | 3.72           |
| Coal                                      | 0.06         | 0.06          | 0.06         | 0.06           | 0.06          | 0.06         | 0.06           | 0.06          | 0.06         | 0.06           |
| Renewable energy <sup>3</sup>             | 0.11         | 0.11          | 0.11         | 0.11           | 0.11          | 0.11         | 0.11           | 0.11          | 0.11         | 0.11           |
| Electricity                               | 4.54         | 4.61          | 4.59         | 4.57           | 5.19          | 5.16         | 5.14           | 5.81          | 5.80         | 5.77           |
| <b>Delivered energy</b>                   | <b>8.70</b>  | <b>8.96</b>   | <b>8.80</b>  | <b>8.70</b>    | <b>9.66</b>   | <b>9.48</b>  | <b>9.41</b>    | <b>10.43</b>  | <b>10.28</b> | <b>10.23</b>   |
| Electricity related losses                | 9.52         | 9.34          | 9.27         | 9.18           | 10.50         | 10.38        | 10.21          | 11.41         | 11.23        | 10.90          |
| <b>Total</b>                              | <b>18.22</b> | <b>18.30</b>  | <b>18.06</b> | <b>17.89</b>   | <b>20.16</b>  | <b>19.86</b> | <b>19.62</b>   | <b>21.84</b>  | <b>21.50</b> | <b>21.13</b>   |
| <b>Industrial<sup>4</sup></b>             |              |               |              |                |               |              |                |               |              |                |
| Liquefied petroleum gases                 | 2.00         | 1.86          | 1.83         | 1.80           | 2.22          | 2.17         | 2.13           | 2.23          | 2.15         | 2.11           |
| Motor gasoline <sup>2</sup>               | 0.25         | 0.28          | 0.28         | 0.28           | 0.31          | 0.30         | 0.30           | 0.32          | 0.30         | 0.29           |
| Distillate fuel oil                       | 1.16         | 1.28          | 1.25         | 1.24           | 1.25          | 1.19         | 1.17           | 1.29          | 1.18         | 1.16           |
| Residual fuel oil                         | 0.12         | 0.12          | 0.09         | 0.09           | 0.13          | 0.08         | 0.07           | 0.14          | 0.08         | 0.07           |
| Petrochemical feedstocks                  | 0.94         | 1.01          | 1.01         | 1.01           | 1.30          | 1.29         | 1.28           | 1.32          | 1.30         | 1.29           |
| Other petroleum <sup>5</sup>              | 3.59         | 3.82          | 3.44         | 3.23           | 3.82          | 3.11         | 2.89           | 4.10          | 3.19         | 2.83           |
| Liquid fuels and other petroleum subtotal | 8.05         | 8.39          | 7.89         | 7.65           | 9.03          | 8.13         | 7.83           | 9.40          | 8.21         | 7.76           |
| Natural gas                               | 6.76         | 7.17          | 7.19         | 7.21           | 7.19          | 7.32         | 7.38           | 7.18          | 7.18         | 7.29           |
| Natural-gas-to-liquids heat and power     | 0.00         | 0.00          | 0.00         | 0.00           | 0.00          | 0.00         | 0.07           | 0.00          | 0.00         | 0.07           |
| Lease and plant fuel <sup>6</sup>         | 1.37         | 1.42          | 1.43         | 1.44           | 1.53          | 1.57         | 1.63           | 1.54          | 1.63         | 1.71           |
| Natural gas subtotal                      | 8.14         | 8.59          | 8.62         | 8.65           | 8.72          | 8.89         | 9.09           | 8.71          | 8.81         | 9.07           |
| Metallurgical coal                        | 0.55         | 0.58          | 0.57         | 0.56           | 0.48          | 0.49         | 0.49           | 0.44          | 0.43         | 0.43           |
| Other industrial coal                     | 1.01         | 1.03          | 1.03         | 1.02           | 1.04          | 1.08         | 1.08           | 1.05          | 1.08         | 1.09           |
| Coal-to-liquids heat and power            | 0.00         | 0.00          | 0.00         | 0.00           | 0.10          | 0.36         | 1.12           | 0.10          | 0.60         | 2.74           |
| Net coal coke imports                     | -0.01        | -0.00         | -0.01        | -0.01          | -0.03         | -0.03        | -0.03          | -0.06         | -0.06        | -0.06          |
| Coal subtotal                             | 1.56         | 1.60          | 1.59         | 1.58           | 1.60          | 1.90         | 2.67           | 1.54          | 2.06         | 4.21           |
| Biofuels heat and coproducts              | 0.84         | 0.85          | 0.81         | 0.86           | 1.19          | 1.27         | 1.73           | 1.99          | 2.57         | 3.63           |
| Renewable energy <sup>7</sup>             | 1.50         | 1.63          | 1.61         | 1.63           | 1.90          | 1.82         | 1.75           | 2.10          | 1.95         | 1.87           |
| Electricity                               | 3.28         | 3.52          | 3.44         | 3.40           | 3.57          | 3.52         | 3.51           | 3.40          | 3.33         | 3.32           |
| <b>Delivered energy</b>                   | <b>23.37</b> | <b>24.57</b>  | <b>23.96</b> | <b>23.76</b>   | <b>26.02</b>  | <b>25.53</b> | <b>26.58</b>   | <b>27.14</b>  | <b>26.94</b> | <b>29.85</b>   |
| Electricity related losses                | 6.89         | 7.11          | 6.94         | 6.84           | 7.21          | 7.09         | 6.98           | 6.68          | 6.46         | 6.27           |
| <b>Total</b>                              | <b>30.26</b> | <b>31.69</b>  | <b>30.90</b> | <b>30.60</b>   | <b>33.24</b>  | <b>32.61</b> | <b>33.56</b>   | <b>33.82</b>  | <b>33.39</b> | <b>36.12</b>   |

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

| Sector and source                                   | 2010         | Projections   |              |                |               |               |                |               |               |                |
|-----------------------------------------------------|--------------|---------------|--------------|----------------|---------------|---------------|----------------|---------------|---------------|----------------|
|                                                     |              | 2015          |              |                | 2025          |               |                | 2035          |               |                |
|                                                     |              | Low oil price | Reference    | High oil price | Low oil price | Reference     | High oil price | Low oil price | Reference     | High oil price |
| <b>Transportation</b>                               |              |               |              |                |               |               |                |               |               |                |
| Liquefied petroleum gases                           | 0.04         | 0.04          | 0.04         | 0.05           | 0.04          | 0.04          | 0.05           | 0.05          | 0.05          | 0.05           |
| E85 <sup>8</sup>                                    | 0.00         | 0.01          | 0.01         | 0.37           | 0.02          | 0.30          | 1.49           | 0.20          | 1.22          | 2.63           |
| Motor gasoline <sup>2</sup>                         | 16.91        | 17.23         | 16.13        | 14.85          | 17.02         | 14.90         | 12.48          | 17.96         | 14.53         | 11.70          |
| Jet fuel <sup>9</sup>                               | 3.07         | 3.04          | 3.03         | 3.01           | 3.20          | 3.19          | 3.18           | 3.34          | 3.33          | 3.32           |
| Distillate fuel oil <sup>10</sup>                   | 5.77         | 6.71          | 6.55         | 6.45           | 7.08          | 7.03          | 7.14           | 7.58          | 7.44          | 7.57           |
| Residual fuel oil                                   | 0.90         | 0.91          | 0.91         | 0.91           | 0.92          | 0.93          | 0.93           | 0.94          | 0.94          | 0.94           |
| Other petroleum <sup>11</sup>                       | 0.17         | 0.17          | 0.17         | 0.17           | 0.17          | 0.17          | 0.17           | 0.17          | 0.17          | 0.17           |
| Liquid fuels and other petroleum subtotal           | 26.88        | 28.11         | 26.83        | 25.81          | 28.45         | 26.57         | 25.44          | 30.24         | 27.67         | 26.40          |
| Pipeline fuel natural gas                           | 0.65         | 0.68          | 0.68         | 0.69           | 0.66          | 0.67          | 0.69           | 0.67          | 0.69          | 0.69           |
| Compressed / liquefied natural gas                  | 0.04         | 0.05          | 0.06         | 0.08           | 0.06          | 0.11          | 0.21           | 0.07          | 0.16          | 0.30           |
| 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           | 0.03          | 0.04          | 0.06           | 0.05          | 0.07          | 0.11           |
| <b>Delivered energy</b>                             | <b>27.59</b> | <b>28.86</b>  | <b>27.60</b> | <b>26.61</b>   | <b>29.20</b>  | <b>27.40</b>  | <b>26.40</b>   | <b>31.03</b>  | <b>28.60</b>  | <b>27.49</b>   |
| Electricity related losses                          | 0.05         | 0.05          | 0.05         | 0.06           | 0.07          | 0.08          | 0.12           | 0.10          | 0.14          | 0.20           |
| <b>Total</b>                                        | <b>27.63</b> | <b>28.92</b>  | <b>27.65</b> | <b>26.67</b>   | <b>29.27</b>  | <b>27.49</b>  | <b>26.52</b>   | <b>31.12</b>  | <b>28.75</b>  | <b>27.69</b>   |
| <b>Delivered energy consumption for all sectors</b> |              |               |              |                |               |               |                |               |               |                |
| Liquefied petroleum gases                           | 2.75         | 2.60          | 2.51         | 2.46           | 2.98          | 2.86          | 2.79           | 3.02          | 2.86          | 2.79           |
| E85 <sup>8</sup>                                    | 0.00         | 0.01          | 0.01         | 0.37           | 0.02          | 0.30          | 1.49           | 0.20          | 1.22          | 2.63           |
| Motor gasoline <sup>2</sup>                         | 17.21        | 17.57         | 16.46        | 15.17          | 17.39         | 15.25         | 12.82          | 18.35         | 14.88         | 12.05          |
| Jet fuel <sup>9</sup>                               | 3.07         | 3.04          | 3.03         | 3.01           | 3.20          | 3.19          | 3.18           | 3.34          | 3.33          | 3.32           |
| Kerosene                                            | 0.04         | 0.04          | 0.03         | 0.03           | 0.04          | 0.03          | 0.03           | 0.04          | 0.03          | 0.03           |
| Distillate fuel oil                                 | 7.99         | 9.01          | 8.69         | 8.52           | 9.24          | 8.99          | 9.02           | 9.69          | 9.29          | 9.36           |
| Residual fuel oil                                   | 1.11         | 1.16          | 1.08         | 1.06           | 1.19          | 1.09          | 1.06           | 1.21          | 1.11          | 1.08           |
| Petrochemical feedstocks                            | 0.94         | 1.01          | 1.01         | 1.01           | 1.30          | 1.29          | 1.28           | 1.32          | 1.30          | 1.29           |
| Other petroleum <sup>12</sup>                       | 3.76         | 3.98          | 3.61         | 3.39           | 3.98          | 3.27          | 3.05           | 4.27          | 3.36          | 3.00           |
| Liquid fuels and other petroleum subtotal           | 36.87        | 38.42         | 36.43        | 35.02          | 39.35         | 36.28         | 34.73          | 41.44         | 37.38         | 35.55          |
| Natural gas                                         | 15.15        | 15.62         | 15.64        | 15.68          | 15.63         | 15.85         | 16.04          | 15.62         | 15.79         | 16.08          |
| Natural-gas-to-liquids heat and power               | 0.00         | 0.00          | 0.00         | 0.00           | 0.00          | 0.00          | 0.07           | 0.00          | 0.00          | 0.07           |
| Lease and plant fuel <sup>6</sup>                   | 1.37         | 1.42          | 1.43         | 1.44           | 1.53          | 1.57          | 1.63           | 1.54          | 1.63          | 1.71           |
| Pipeline natural gas                                | 0.65         | 0.68          | 0.68         | 0.69           | 0.66          | 0.67          | 0.69           | 0.67          | 0.69          | 0.69           |
| Natural gas subtotal                                | 17.17        | 17.72         | 17.75        | 17.81          | 17.82         | 18.09         | 18.43          | 17.83         | 18.11         | 18.55          |
| Metallurgical coal                                  | 0.55         | 0.58          | 0.57         | 0.56           | 0.48          | 0.49          | 0.49           | 0.44          | 0.43          | 0.43           |
| Other coal                                          | 1.08         | 1.09          | 1.09         | 1.08           | 1.11          | 1.14          | 1.15           | 1.11          | 1.15          | 1.16           |
| Coal-to-liquids heat and power                      | 0.00         | 0.00          | 0.00         | 0.00           | 0.10          | 0.36          | 1.12           | 0.10          | 0.60          | 2.74           |
| Net coal coke imports                               | -0.01        | -0.00         | -0.01        | -0.01          | -0.03         | -0.03         | -0.03          | -0.06         | -0.06         | -0.06          |
| Coal subtotal                                       | 1.62         | 1.67          | 1.65         | 1.64           | 1.67          | 1.96          | 2.74           | 1.60          | 2.12          | 4.28           |
| Biofuels heat and coproducts                        | 0.84         | 0.85          | 0.81         | 0.86           | 1.19          | 1.27          | 1.73           | 1.99          | 2.57          | 3.63           |
| Renewable energy <sup>13</sup>                      | 2.03         | 2.10          | 2.15         | 2.22           | 2.37          | 2.36          | 2.34           | 2.56          | 2.50          | 2.45           |
| Liquid hydrogen                                     | 0.00         | 0.00          | 0.00         | 0.00           | 0.00          | 0.00          | 0.00           | 0.00          | 0.00          | 0.00           |
| Electricity                                         | 12.79        | 12.94         | 12.81        | 12.71          | 14.07         | 13.96         | 13.91          | 15.16         | 15.06         | 15.02          |
| <b>Delivered energy</b>                             | <b>71.32</b> | <b>73.71</b>  | <b>71.59</b> | <b>70.26</b>   | <b>76.47</b>  | <b>73.92</b>  | <b>73.87</b>   | <b>80.58</b>  | <b>77.75</b>  | <b>79.48</b>   |
| Electricity related losses                          | 26.84        | 26.19         | 25.84        | 25.55          | 28.44         | 28.07         | 27.65          | 29.76         | 29.18         | 28.39          |
| <b>Total</b>                                        | <b>98.16</b> | <b>99.89</b>  | <b>97.43</b> | <b>95.82</b>   | <b>104.90</b> | <b>101.99</b> | <b>101.52</b>  | <b>110.34</b> | <b>106.93</b> | <b>107.87</b>  |
| <b>Electric power<sup>14</sup></b>                  |              |               |              |                |               |               |                |               |               |                |
| Distillate fuel oil                                 | 0.08         | 0.09          | 0.08         | 0.08           | 0.09          | 0.09          | 0.09           | 0.09          | 0.09          | 0.09           |
| Residual fuel oil                                   | 0.30         | 0.22          | 0.21         | 0.21           | 0.27          | 0.22          | 0.22           | 0.33          | 0.23          | 0.23           |
| Liquid fuels and other petroleum subtotal           | 0.38         | 0.30          | 0.29         | 0.29           | 0.36          | 0.31          | 0.31           | 0.42          | 0.32          | 0.32           |
| Natural gas                                         | 7.54         | 8.22          | 8.25         | 8.37           | 7.97          | 8.04          | 8.14           | 9.03          | 9.16          | 9.12           |
| Steam coal                                          | 19.13        | 16.68         | 16.15        | 15.66          | 18.50         | 18.06         | 17.65          | 19.45         | 19.03         | 18.41          |
| Nuclear / uranium <sup>15</sup>                     | 8.44         | 8.68          | 8.68         | 8.68           | 9.60          | 9.60          | 9.60           | 9.42          | 9.28          | 9.26           |
| Renewable energy <sup>16</sup>                      | 3.85         | 4.94          | 4.96         | 4.96           | 5.80          | 5.75          | 5.59           | 6.34          | 6.22          | 6.07           |
| Electricity imports                                 | 0.09         | 0.10          | 0.10         | 0.10           | 0.08          | 0.08          | 0.08           | 0.04          | 0.04          | 0.04           |
| <b>Total<sup>17</sup></b>                           | <b>39.63</b> | <b>39.13</b>  | <b>38.64</b> | <b>38.26</b>   | <b>42.50</b>  | <b>42.03</b>  | <b>41.56</b>   | <b>44.91</b>  | <b>44.24</b>  | <b>43.41</b>   |

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

| Sector and source                              | 2010         | Projections   |              |                |               |               |                |               |               |                |
|------------------------------------------------|--------------|---------------|--------------|----------------|---------------|---------------|----------------|---------------|---------------|----------------|
|                                                |              | 2015          |              |                | 2025          |               |                | 2035          |               |                |
|                                                |              | Low oil price | Reference    | High oil price | Low oil price | Reference     | High oil price | Low oil price | Reference     | High oil price |
| <b>Total energy consumption</b>                |              |               |              |                |               |               |                |               |               |                |
| Liquefied petroleum gases                      | 2.75         | 2.60          | 2.51         | 2.46           | 2.98          | 2.86          | 2.79           | 3.02          | 2.86          | 2.79           |
| E85 <sup>8</sup>                               | 0.00         | 0.01          | 0.01         | 0.37           | 0.02          | 0.30          | 1.49           | 0.20          | 1.22          | 2.63           |
| Motor gasoline <sup>2</sup>                    | 17.21        | 17.57         | 16.46        | 15.17          | 17.39         | 15.25         | 12.82          | 18.35         | 14.88         | 12.05          |
| Jet fuel <sup>9</sup>                          | 3.07         | 3.04          | 3.03         | 3.01           | 3.20          | 3.19          | 3.18           | 3.34          | 3.33          | 3.32           |
| Kerosene                                       | 0.04         | 0.04          | 0.03         | 0.03           | 0.04          | 0.03          | 0.03           | 0.04          | 0.03          | 0.03           |
| Distillate fuel oil                            | 8.07         | 9.10          | 8.78         | 8.60           | 9.33          | 9.07          | 9.10           | 9.78          | 9.38          | 9.45           |
| Residual fuel oil                              | 1.41         | 1.38          | 1.29         | 1.27           | 1.46          | 1.31          | 1.28           | 1.55          | 1.34          | 1.31           |
| Petrochemical feedstocks                       | 0.94         | 1.01          | 1.01         | 1.01           | 1.30          | 1.29          | 1.28           | 1.32          | 1.30          | 1.29           |
| Other petroleum <sup>12</sup>                  | 3.76         | 3.98          | 3.61         | 3.39           | 3.98          | 3.27          | 3.05           | 4.27          | 3.36          | 3.00           |
| Liquid fuels and other petroleum subtotal      | 37.25        | 38.73         | 36.72        | 35.31          | 39.70         | 36.58         | 35.03          | 41.86         | 37.70         | 35.86          |
| Natural gas                                    | 22.69        | 23.84         | 23.89        | 24.05          | 23.60         | 23.89         | 24.17          | 24.65         | 24.94         | 25.20          |
| Natural-gas-to-liquids heat and power          | 0.00         | 0.00          | 0.00         | 0.00           | 0.00          | 0.00          | 0.07           | 0.00          | 0.00          | 0.07           |
| Lease and plant fuel <sup>6</sup>              | 1.37         | 1.42          | 1.43         | 1.44           | 1.53          | 1.57          | 1.63           | 1.54          | 1.63          | 1.71           |
| Pipeline natural gas                           | 0.65         | 0.68          | 0.68         | 0.69           | 0.66          | 0.67          | 0.69           | 0.67          | 0.69          | 0.69           |
| Natural gas subtotal                           | 24.71        | 25.93         | 26.00        | 26.18          | 25.80         | 26.14         | 26.57          | 26.86         | 27.26         | 27.67          |
| Metallurgical coal                             | 0.55         | 0.58          | 0.57         | 0.56           | 0.48          | 0.49          | 0.49           | 0.44          | 0.43          | 0.43           |
| Other coal                                     | 20.21        | 17.77         | 17.24        | 16.74          | 19.61         | 19.20         | 18.80          | 20.56         | 20.18         | 19.57          |
| Coal-to-liquids heat and power                 | 0.00         | 0.00          | 0.00         | 0.00           | 0.10          | 0.36          | 1.12           | 0.10          | 0.60          | 2.74           |
| Net coal coke imports                          | -0.01        | -0.00         | -0.01        | -0.01          | -0.03         | -0.03         | -0.03          | -0.06         | -0.06         | -0.06          |
| Coal subtotal                                  | 20.76        | 18.35         | 17.80        | 17.30          | 20.17         | 20.02         | 20.39          | 21.05         | 21.15         | 22.69          |
| Nuclear / uranium <sup>15</sup>                | 8.44         | 8.68          | 8.68         | 8.68           | 9.60          | 9.60          | 9.60           | 9.42          | 9.28          | 9.26           |
| Biofuels heat and coproducts                   | 0.84         | 0.85          | 0.81         | 0.86           | 1.19          | 1.27          | 1.73           | 1.99          | 2.57          | 3.63           |
| Renewable energy <sup>18</sup>                 | 5.88         | 7.05          | 7.11         | 7.18           | 8.16          | 8.11          | 7.93           | 8.91          | 8.71          | 8.52           |
| Liquid hydrogen                                | 0.00         | 0.00          | 0.00         | 0.00           | 0.00          | 0.00          | 0.00           | 0.00          | 0.00          | 0.00           |
| Electricity imports                            | 0.09         | 0.10          | 0.10         | 0.10           | 0.08          | 0.08          | 0.08           | 0.04          | 0.04          | 0.04           |
| <b>Total</b>                                   | <b>98.16</b> | <b>99.89</b>  | <b>97.43</b> | <b>95.82</b>   | <b>104.90</b> | <b>101.99</b> | <b>101.52</b>  | <b>110.34</b> | <b>106.93</b> | <b>107.87</b>  |
| <b>Energy use and related statistics</b>       |              |               |              |                |               |               |                |               |               |                |
| Delivered energy use                           | 71.32        | 73.71         | 71.59        | 70.26          | 76.47         | 73.92         | 73.87          | 80.58         | 77.75         | 79.48          |
| Total energy use                               | 98.16        | 99.89         | 97.43        | 95.82          | 104.90        | 101.99        | 101.52         | 110.34        | 106.93        | 107.87         |
| Ethanol consumed in motor gasoline and E85     | 1.11         | 1.30          | 1.22         | 1.36           | 1.56          | 1.55          | 2.14           | 1.77          | 2.15          | 2.80           |
| Population (millions)                          | 310.83       | 326.16        | 326.16       | 326.16         | 358.06        | 358.06        | 358.06         | 390.09        | 390.09        | 390.09         |
| Gross domestic product (billion 2005 dollars)  | 13088        | 14990         | 14803        | 14666          | 19146         | 19185         | 19380          | 24596         | 24539         | 24703          |
| Carbon dioxide emissions (million metric tons) | 5633.6       | 5592.8        | 5407.2       | 5251.2         | 5770.9        | 5552.5        | 5450.8         | 6049.1        | 5757.9        | 5737.1         |

<sup>1</sup>Includes 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.

<sup>2</sup>Includes ethanol (blends of 15 percent or less) and ethers blended into gasoline.

<sup>3</sup>Excludes 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.

<sup>4</sup>Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public.

<sup>5</sup>Includes petroleum coke, asphalt, road oil, lubricants, still gas, and miscellaneous petroleum products.

<sup>6</sup>Represents natural gas used in well, field, and lease operations, and in natural gas processing plant machinery.

<sup>7</sup>Includes consumption of energy produced from hydroelectric, wood and wood waste, municipal waste, and other biomass sources. Excludes ethanol blends (15 percent or less) in motor gasoline.

<sup>8</sup>E85 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.

<sup>9</sup>Includes only kerosene type.

<sup>10</sup>Diesel fuel for on- and off- road use.

<sup>11</sup>Includes aviation gasoline and lubricants.

<sup>12</sup>Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, still gas, asphalt, road oil, petroleum coke, and miscellaneous petroleum products.

<sup>13</sup>Includes 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.

<sup>14</sup>Includes consumption of energy by electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

<sup>15</sup>These 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.

<sup>16</sup>Includes conventional hydroelectric, geothermal, wood and wood waste, biogenic municipal waste, other biomass, wind, photovoltaic, and solar thermal sources. Excludes net electricity imports.

<sup>17</sup>Includes non-biogenic municipal waste not included above.

<sup>18</sup>Includes 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: Totals may not equal sum of components due to independent rounding. Data for 2010 are model results and may differ slightly from official EIA data reports.

Sources: 2010 consumption based on: U.S. Energy Information Administration (EIA), *Annual Energy Review 2010*, DOE/EIA-0384(2010) (Washington, DC, October 2011). 2010 population and gross domestic product: IHS Global Insight Industry and Employment models, August 2011. 2010 carbon dioxide emissions: EIA, *Monthly Energy Review, October 2011* DOE/EIA-0035(2011/10) (Washington, DC, October 2011). Projections: EIA, AEO2012 National Energy Modeling System runs LP2012.D022112A, REF2012.D020112C, and HP2012.D022112A.

**Table C3. Energy prices by sector and source**  
(2010 dollars per million Btu, unless otherwise noted)

| Sector and source                                                         | 2010           | Projections    |                |                |                |                |                |                |                |                |
|---------------------------------------------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
|                                                                           |                | 2015           |                |                | 2025           |                |                | 2035           |                |                |
|                                                                           |                | Low oil price  | Reference      | High oil price | Low oil price  | Reference      | High oil price | Low oil price  | Reference      | High oil price |
| <b>Residential</b>                                                        |                |                |                |                |                |                |                |                |                |                |
| Liquefied petroleum gases                                                 | 27.02          | 22.54          | 30.70          | 39.69          | 22.18          | 32.27          | 40.42          | 23.49          | 34.64          | 42.03          |
| Distillate fuel oil                                                       | 21.21          | 16.55          | 27.26          | 38.29          | 17.27          | 30.15          | 39.23          | 18.46          | 32.73          | 40.00          |
| Natural gas                                                               | 11.08          | 10.22          | 10.31          | 10.30          | 11.96          | 12.03          | 12.02          | 13.97          | 13.98          | 13.86          |
| Electricity                                                               | 33.69          | 34.06          | 34.59          | 35.24          | 33.37          | 34.08          | 34.73          | 34.31          | 34.58          | 35.00          |
| <b>Commercial</b>                                                         |                |                |                |                |                |                |                |                |                |                |
| Liquefied petroleum gases                                                 | 23.52          | 19.33          | 27.42          | 36.38          | 19.00          | 28.97          | 37.09          | 20.30          | 31.30          | 38.66          |
| Distillate fuel oil                                                       | 20.77          | 13.91          | 23.98          | 34.68          | 14.39          | 26.86          | 35.89          | 15.51          | 29.18          | 36.36          |
| Residual fuel oil                                                         | 11.07          | 5.99           | 16.18          | 27.80          | 6.25           | 18.24          | 28.32          | 6.90           | 18.90          | 28.11          |
| Natural gas                                                               | 9.10           | 8.52           | 8.60           | 8.59           | 9.98           | 10.02          | 10.01          | 11.66          | 11.64          | 11.49          |
| Electricity                                                               | 29.73          | 28.52          | 29.03          | 29.65          | 28.32          | 29.00          | 29.71          | 29.30          | 29.48          | 29.84          |
| <b>Industrial<sup>1</sup></b>                                             |                |                |                |                |                |                |                |                |                |                |
| Liquefied petroleum gases                                                 | 21.80          | 16.98          | 27.43          | 38.87          | 16.33          | 29.24          | 39.62          | 17.95          | 32.18          | 41.60          |
| Distillate fuel oil                                                       | 21.32          | 14.50          | 24.20          | 34.82          | 14.95          | 27.22          | 36.32          | 16.19          | 29.53          | 36.60          |
| Residual fuel oil                                                         | 10.92          | 9.51           | 19.21          | 30.20          | 9.60           | 21.23          | 30.43          | 9.97           | 21.65          | 30.61          |
| Natural gas <sup>2</sup>                                                  | 5.51           | 4.78           | 4.88           | 4.88           | 5.99           | 6.04           | 6.01           | 7.52           | 7.54           | 7.38           |
| Metallurgical coal                                                        | 5.84           | 7.04           | 7.22           | 7.35           | 7.86           | 8.11           | 8.24           | 8.85           | 9.11           | 9.23           |
| Other industrial coal                                                     | 2.71           | 3.11           | 3.27           | 3.38           | 3.18           | 3.38           | 3.52           | 3.38           | 3.64           | 3.86           |
| Coal to liquids                                                           | --             | 1.17           | 1.26           | 1.32           | 2.02           | 2.08           | 2.26           | 2.26           | 2.38           | 2.64           |
| Electricity                                                               | 19.63          | 18.58          | 18.91          | 19.26          | 19.11          | 19.60          | 19.96          | 20.61          | 20.78          | 20.97          |
| <b>Transportation</b>                                                     |                |                |                |                |                |                |                |                |                |                |
| Liquefied petroleum gases <sup>3</sup>                                    | 26.88          | 23.86          | 31.93          | 40.71          | 23.47          | 33.38          | 41.43          | 24.77          | 35.74          | 43.04          |
| E85 <sup>4</sup>                                                          | 25.21          | 18.16          | 29.03          | 38.11          | 17.18          | 28.81          | 41.93          | 16.59          | 31.96          | 39.01          |
| Motor gasoline <sup>5</sup>                                               | 22.70          | 18.53          | 29.26          | 41.14          | 18.20          | 32.10          | 43.26          | 18.49          | 33.61          | 42.09          |
| Jet fuel <sup>6</sup>                                                     | 16.22          | 12.62          | 23.74          | 35.26          | 12.80          | 26.45          | 35.89          | 13.96          | 29.13          | 36.89          |
| Diesel fuel (distillate fuel oil) <sup>7</sup>                            | 21.87          | 17.99          | 27.56          | 38.22          | 18.14          | 30.42          | 39.66          | 19.15          | 32.40          | 39.63          |
| Residual fuel oil                                                         | 10.42          | 8.64           | 18.32          | 29.02          | 8.67           | 20.62          | 29.37          | 8.76           | 20.95          | 29.86          |
| Natural gas <sup>8</sup>                                                  | 13.20          | 12.28          | 12.40          | 12.45          | 13.05          | 13.29          | 13.41          | 14.26          | 14.51          | 14.47          |
| Electricity                                                               | 32.99          | 30.37          | 30.50          | 30.24          | 30.91          | 31.53          | 33.04          | 33.26          | 33.82          | 34.36          |
| <b>Electric power<sup>9</sup></b>                                         |                |                |                |                |                |                |                |                |                |                |
| Distillate fuel oil                                                       | 18.73          | 12.06          | 22.77          | 33.56          | 12.54          | 25.35          | 34.16          | 13.56          | 27.80          | 35.05          |
| Residual fuel oil                                                         | 11.89          | 13.08          | 23.00          | 33.74          | 12.12          | 25.40          | 34.30          | 11.20          | 25.72          | 34.59          |
| Natural gas                                                               | 5.14           | 4.46           | 4.55           | 4.54           | 5.58           | 5.60           | 5.59           | 7.18           | 7.21           | 7.04           |
| Steam coal                                                                | 2.26           | 2.22           | 2.35           | 2.47           | 2.34           | 2.54           | 2.68           | 2.56           | 2.80           | 3.00           |
| <b>Average price to all users<sup>10</sup></b>                            |                |                |                |                |                |                |                |                |                |                |
| Liquefied petroleum gases                                                 | 17.28          | 14.64          | 22.99          | 32.23          | 13.90          | 24.19          | 32.57          | 15.28          | 26.63          | 34.20          |
| E85 <sup>4</sup>                                                          | 25.21          | 18.16          | 29.03          | 38.11          | 17.18          | 28.81          | 41.93          | 16.59          | 31.96          | 39.01          |
| Motor gasoline <sup>5</sup>                                               | 22.59          | 18.53          | 29.26          | 41.14          | 18.19          | 32.10          | 43.26          | 18.49          | 33.61          | 42.09          |
| Jet fuel                                                                  | 16.22          | 12.62          | 23.74          | 35.26          | 12.80          | 26.45          | 35.89          | 13.96          | 29.13          | 36.89          |
| Distillate fuel oil                                                       | 21.65          | 17.16          | 26.87          | 37.56          | 17.45          | 29.81          | 39.04          | 18.54          | 31.91          | 39.12          |
| Residual fuel oil                                                         | 10.82          | 9.17           | 19.01          | 29.82          | 9.16           | 21.31          | 30.21          | 9.22           | 21.68          | 30.63          |
| Natural gas                                                               | 7.16           | 6.36           | 6.45           | 6.43           | 7.70           | 7.74           | 7.74           | 9.26           | 9.30           | 9.18           |
| Metallurgical coal                                                        | 5.84           | 7.04           | 7.22           | 7.35           | 7.86           | 8.11           | 8.24           | 8.85           | 9.11           | 9.23           |
| Other coal                                                                | 2.29           | 2.28           | 2.41           | 2.53           | 2.39           | 2.59           | 2.73           | 2.61           | 2.85           | 3.06           |
| Coal to liquids                                                           | --             | 1.17           | 1.26           | 1.32           | 2.02           | 2.08           | 2.26           | 2.26           | 2.38           | 2.64           |
| Electricity                                                               | 28.68          | 27.87          | 28.38          | 28.94          | 27.88          | 28.54          | 29.14          | 29.31          | 29.56          | 29.92          |
| <b>Non-renewable energy expenditures by sector (billion 2010 dollars)</b> |                |                |                |                |                |                |                |                |                |                |
| Residential                                                               | 251.69         | 236.40         | 246.72         | 256.77         | 255.31         | 266.75         | 275.38         | 289.49         | 298.72         | 304.24         |
| Commercial                                                                | 179.08         | 171.63         | 177.92         | 184.03         | 193.67         | 201.89         | 208.38         | 225.40         | 231.98         | 235.90         |
| Industrial                                                                | 198.98         | 175.07         | 223.88         | 279.09         | 194.55         | 261.92         | 313.03         | 212.90         | 282.31         | 323.54         |
| Transportation                                                            | 573.78         | 489.96         | 746.84         | 998.67         | 491.22         | 803.52         | 976.23         | 537.61         | 856.65         | 958.30         |
| Total non-renewable expenditures                                          | 1203.54        | 1073.06        | 1395.36        | 1718.56        | 1134.76        | 1534.08        | 1773.02        | 1265.39        | 1669.66        | 1821.97        |
| Transportation renewable expenditures                                     | 0.08           | 0.18           | 0.25           | 14.01          | 0.39           | 8.74           | 62.29          | 3.32           | 38.86          | 102.69         |
| <b>Total expenditures</b>                                                 | <b>1203.62</b> | <b>1073.25</b> | <b>1395.61</b> | <b>1732.58</b> | <b>1135.15</b> | <b>1542.81</b> | <b>1835.31</b> | <b>1268.71</b> | <b>1708.52</b> | <b>1924.66</b> |

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

| Sector and source                              | 2010  | Projections   |           |                |               |           |                |               |           |                |
|------------------------------------------------|-------|---------------|-----------|----------------|---------------|-----------|----------------|---------------|-----------|----------------|
|                                                |       | 2015          |           |                | 2025          |           |                | 2035          |           |                |
|                                                |       | Low oil price | Reference | High oil price | Low oil price | Reference | High oil price | Low oil price | Reference | High oil price |
| <b>Residential</b>                             |       |               |           |                |               |           |                |               |           |                |
| Liquefied petroleum gases                      | 27.02 | 24.26         | 33.08     | 42.65          | 28.87         | 41.41     | 51.27          | 37.25         | 54.86     | 66.07          |
| Distillate fuel oil                            | 21.21 | 17.81         | 29.38     | 41.14          | 22.48         | 38.68     | 49.75          | 29.27         | 51.82     | 62.87          |
| Natural gas                                    | 11.08 | 11.00         | 11.11     | 11.06          | 15.57         | 15.43     | 15.25          | 22.15         | 22.14     | 21.78          |
| Electricity                                    | 33.69 | 36.66         | 37.27     | 37.86          | 43.43         | 43.72     | 44.05          | 54.40         | 54.76     | 55.02          |
| <b>Commercial</b>                              |       |               |           |                |               |           |                |               |           |                |
| Liquefied petroleum gases                      | 23.52 | 20.80         | 29.54     | 39.09          | 24.73         | 37.17     | 47.04          | 32.18         | 49.56     | 60.77          |
| Distillate fuel oil                            | 20.77 | 14.97         | 25.83     | 37.27          | 18.73         | 34.47     | 45.51          | 24.59         | 46.20     | 57.15          |
| Residual fuel oil                              | 11.07 | 6.44          | 17.43     | 29.87          | 8.13          | 23.41     | 35.92          | 10.94         | 29.93     | 44.18          |
| Natural gas                                    | 9.10  | 9.17          | 9.27      | 9.23           | 12.99         | 12.86     | 12.69          | 18.48         | 18.43     | 18.06          |
| Electricity                                    | 29.73 | 30.70         | 31.28     | 31.86          | 36.86         | 37.21     | 37.68          | 46.46         | 46.67     | 46.91          |
| <b>Industrial<sup>1</sup></b>                  |       |               |           |                |               |           |                |               |           |                |
| Liquefied petroleum gases                      | 21.80 | 18.28         | 29.56     | 41.77          | 21.25         | 37.51     | 50.25          | 28.46         | 50.95     | 65.39          |
| Distillate fuel oil                            | 21.32 | 15.61         | 26.08     | 37.41          | 19.46         | 34.93     | 46.06          | 25.67         | 46.76     | 57.53          |
| Residual fuel oil                              | 10.92 | 10.23         | 20.70     | 32.45          | 12.49         | 27.24     | 38.59          | 15.80         | 34.28     | 48.11          |
| Natural gas <sup>2</sup>                       | 5.51  | 5.14          | 5.26      | 5.24           | 7.80          | 7.75      | 7.63           | 11.92         | 11.93     | 11.60          |
| Metallurgical coal                             | 5.84  | 7.57          | 7.78      | 7.90           | 10.23         | 10.40     | 10.45          | 14.04         | 14.42     | 14.51          |
| Other industrial coal                          | 2.71  | 3.35          | 3.52      | 3.63           | 4.13          | 4.34      | 4.46           | 5.36          | 5.77      | 6.06           |
| Coal to liquids                                | --    | 1.26          | 1.36      | 1.42           | 2.63          | 2.67      | 2.86           | 3.58          | 3.78      | 4.14           |
| Electricity                                    | 19.63 | 19.99         | 20.38     | 20.69          | 24.87         | 25.15     | 25.31          | 32.68         | 32.90     | 32.96          |
| <b>Transportation</b>                          |       |               |           |                |               |           |                |               |           |                |
| Liquefied petroleum gases <sup>3</sup>         | 26.88 | 25.68         | 34.41     | 43.74          | 30.54         | 42.83     | 52.54          | 39.27         | 56.59     | 67.66          |
| E85 <sup>4</sup>                               | 25.21 | 19.55         | 31.28     | 40.95          | 22.36         | 36.97     | 53.17          | 26.31         | 50.61     | 61.31          |
| Motor gasoline <sup>5</sup>                    | 22.70 | 19.94         | 31.53     | 44.21          | 23.68         | 41.19     | 54.86          | 29.32         | 53.22     | 66.16          |
| Jet fuel <sup>6</sup>                          | 16.22 | 13.59         | 25.58     | 37.89          | 16.66         | 33.94     | 45.51          | 22.13         | 46.12     | 57.99          |
| Diesel fuel (distillate fuel oil) <sup>7</sup> | 21.87 | 19.36         | 29.69     | 41.07          | 23.61         | 39.03     | 50.30          | 30.37         | 51.29     | 62.29          |
| Residual fuel oil                              | 10.42 | 9.30          | 19.74     | 31.18          | 11.28         | 26.45     | 37.25          | 13.89         | 33.18     | 46.93          |
| Natural gas <sup>8</sup>                       | 13.20 | 13.22         | 13.36     | 13.38          | 16.98         | 17.05     | 17.00          | 22.61         | 22.97     | 22.75          |
| Electricity                                    | 32.99 | 32.69         | 32.86     | 32.50          | 40.22         | 40.46     | 41.90          | 52.74         | 53.55     | 54.01          |
| <b>Electric power<sup>9</sup></b>              |       |               |           |                |               |           |                |               |           |                |
| Distillate fuel oil                            | 18.73 | 12.98         | 24.53     | 36.06          | 16.32         | 32.52     | 43.32          | 21.50         | 44.02     | 55.10          |
| Residual fuel oil                              | 11.89 | 14.07         | 24.78     | 36.26          | 15.77         | 32.59     | 43.50          | 17.77         | 40.73     | 54.38          |
| Natural gas                                    | 5.14  | 4.80          | 4.90      | 4.88           | 7.27          | 7.19      | 7.09           | 11.38         | 11.42     | 11.06          |
| Steam coal                                     | 2.26  | 2.39          | 2.53      | 2.65           | 3.04          | 3.25      | 3.40           | 4.06          | 4.43      | 4.72           |

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

| Sector and source                                                            | 2010           | Projections    |                |                |                |                |                |                |                |                |
|------------------------------------------------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
|                                                                              |                | 2015           |                |                | 2025           |                |                | 2035           |                |                |
|                                                                              |                | Low oil price  | Reference      | High oil price | Low oil price  | Reference      | High oil price | Low oil price  | Reference      | High oil price |
| <b>Average price to all users<sup>10</sup></b>                               |                |                |                |                |                |                |                |                |                |                |
| Liquefied petroleum gases                                                    | 17.28          | 15.75          | 24.78          | 34.64          | 18.08          | 31.04          | 41.30          | 24.23          | 42.17          | 53.76          |
| E85 <sup>4</sup>                                                             | 25.21          | 19.55          | 31.28          | 40.95          | 22.36          | 36.97          | 53.17          | 26.31          | 50.61          | 61.31          |
| Motor gasoline <sup>5</sup>                                                  | 22.59          | 19.94          | 31.53          | 44.21          | 23.68          | 41.19          | 54.86          | 29.31          | 53.22          | 66.16          |
| Jet fuel                                                                     | 16.22          | 13.59          | 25.58          | 37.89          | 16.66          | 33.94          | 45.51          | 22.13          | 46.12          | 57.99          |
| Distillate fuel oil                                                          | 21.65          | 18.47          | 28.96          | 40.36          | 22.71          | 38.24          | 49.51          | 29.39          | 50.52          | 61.50          |
| Residual fuel oil                                                            | 10.82          | 9.87           | 20.48          | 32.04          | 11.92          | 27.34          | 38.32          | 14.63          | 34.33          | 48.14          |
| Natural gas                                                                  | 7.16           | 6.84           | 6.95           | 6.91           | 10.02          | 9.93           | 9.82           | 14.69          | 14.73          | 14.42          |
| Metallurgical coal                                                           | 5.84           | 7.57           | 7.78           | 7.90           | 10.23          | 10.40          | 10.45          | 14.04          | 14.42          | 14.51          |
| Other coal                                                                   | 2.29           | 2.45           | 2.60           | 2.72           | 3.11           | 3.32           | 3.47           | 4.14           | 4.51           | 4.81           |
| Coal to liquids                                                              | --             | 1.26           | 1.36           | 1.42           | 2.63           | 2.67           | 2.86           | 3.58           | 3.78           | 4.14           |
| Electricity                                                                  | 28.68          | 30.00          | 30.58          | 31.10          | 36.28          | 36.62          | 36.96          | 46.48          | 46.80          | 47.03          |
| <b>Non-renewable energy expenditures by sector (billion nominal dollars)</b> |                |                |                |                |                |                |                |                |                |                |
| Residential                                                                  | 251.69         | 254.44         | 265.85         | 275.92         | 332.26         | 342.26         | 349.24         | 459.02         | 472.99         | 478.21         |
| Commercial                                                                   | 179.08         | 184.73         | 191.71         | 197.75         | 252.04         | 259.04         | 264.27         | 357.40         | 367.31         | 370.80         |
| Industrial                                                                   | 198.98         | 188.43         | 241.24         | 299.90         | 253.19         | 336.06         | 396.99         | 337.58         | 447.01         | 508.54         |
| Transportation                                                               | 573.78         | 527.35         | 804.75         | 1073.14        | 639.27         | 1030.98        | 1238.06        | 852.44         | 1356.41        | 1506.27        |
| Total non-renewable expenditures                                             | 1203.54        | 1154.96        | 1503.55        | 1846.71        | 1476.75        | 1968.35        | 2248.56        | 2006.43        | 2643.72        | 2863.82        |
| Transportation renewable expenditures                                        | 0.08           | 0.20           | 0.27           | 15.06          | 0.51           | 11.21          | 78.99          | 5.26           | 61.53          | 161.41         |
| <b>Total expenditures</b>                                                    | <b>1203.62</b> | <b>1155.16</b> | <b>1503.82</b> | <b>1861.77</b> | <b>1477.26</b> | <b>1979.56</b> | <b>2327.55</b> | <b>2011.69</b> | <b>2705.26</b> | <b>3025.22</b> |

<sup>1</sup>Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public.

<sup>2</sup>Excludes use for lease and plant fuel.

<sup>3</sup>Includes Federal and State taxes while excluding county and local taxes.

<sup>4</sup>E85 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.

<sup>5</sup>Sales weighted-average price for all grades. Includes Federal, State and local taxes.

<sup>6</sup>Kerosene-type jet fuel. Includes Federal and State taxes while excluding county and local taxes.

<sup>7</sup>Diesel fuel for on-road use. Includes Federal and State taxes while excluding county and local taxes.

<sup>8</sup>Natural gas used as a vehicle fuel. Includes estimated motor vehicle fuel taxes and estimated dispensing costs or charges.

<sup>9</sup>Includes electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public.

<sup>10</sup>Weighted 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 2010 are model results and may differ slightly from official EIA data reports.

Sources: 2010 prices for motor gasoline, distillate fuel oil, and jet fuel are based on prices in the U.S. Energy Information Administration (EIA), *Petroleum Marketing Annual 2009*, DOE/EIA-0487(2009) (Washington, DC, August 2010). 2010 residential and commercial natural gas delivered prices: EIA, *Natural Gas Monthly*, DOE/EIA-0130(2011/07) (Washington, DC, July 2011). 2010 industrial natural gas delivered prices are estimated based on: EIA, *Manufacturing Energy Consumption Survey* and industrial and wellhead prices from the *Natural Gas Annual 2009*, DOE/EIA-0131(2009) (Washington, DC, December 2010) and the *Natural Gas Monthly*, DOE/EIA-0130(2011/07) (Washington, DC, July 2011). 2010 transportation sector natural gas delivered prices are model results. 2010 electric power sector distillate and residual fuel oil prices: EIA, *Monthly Energy Review*, DOE/EIA-0035(2011/09) (Washington, DC, September 2010). 2010 electric power sector natural gas prices: EIA, *Electric Power Monthly*, DOE/EIA-0226, April 2010 and April 2011, Table 4.2, and EIA, *State Energy Data Report 2009*, DOE/EIA-0214(2009) (Washington, DC, June 2011). 2010 coal prices based on: EIA, *Quarterly Coal Report, October-December 2010*, DOE/EIA-0121(2010/4Q) (Washington, DC, May 2011) and EIA, AEO2012 National Energy Modeling System run REF2012.D020112C. 2010 electricity prices: EIA, *Annual Energy Review 2010*, DOE/EIA-0384(2010) (Washington, DC, October 2011). 2010 E85 prices derived from monthly prices in the Clean Cities Alternative Fuel Price Report. Projections: EIA, AEO2012 National Energy Modeling System runs LP2012.D022112A, REF2012.D020112C, and HP2012.D022112A.

**Table C4. Liquid fuels supply and disposition**  
(million barrels per day, unless otherwise noted)

| Supply and disposition                     | 2010         | Projections   |              |                |               |              |                |               |              |                |
|--------------------------------------------|--------------|---------------|--------------|----------------|---------------|--------------|----------------|---------------|--------------|----------------|
|                                            |              | 2015          |              |                | 2025          |              |                | 2035          |              |                |
|                                            |              | Low oil price | Reference    | High oil price | Low oil price | Reference    | High oil price | Low oil price | Reference    | High oil price |
| <b>Crude oil</b>                           |              |               |              |                |               |              |                |               |              |                |
| Domestic crude production <sup>1</sup>     | 5.47         | 5.88          | 6.15         | 6.41           | 5.38          | 6.40         | 7.25           | 4.79          | 5.99         | 6.68           |
| Alaska                                     | 0.60         | 0.46          | 0.46         | 0.46           | 0.34          | 0.40         | 0.68           | 0.00          | 0.27         | 0.36           |
| Lower 48 states                            | 4.87         | 5.42          | 5.69         | 5.95           | 5.04          | 6.00         | 6.57           | 4.79          | 5.72         | 6.32           |
| Net imports                                | 9.17         | 9.63          | 8.52         | 7.64           | 9.58          | 7.24         | 5.32           | 10.74         | 7.52         | 4.91           |
| Gross imports                              | 9.21         | 9.66          | 8.56         | 7.67           | 9.61          | 7.27         | 5.36           | 10.77         | 7.55         | 4.95           |
| Exports                                    | 0.04         | 0.03          | 0.03         | 0.03           | 0.03          | 0.03         | 0.04           | 0.03          | 0.03         | 0.04           |
| Other crude supply <sup>2</sup>            | 0.08         | 0.00          | 0.00         | 0.00           | 0.00          | 0.00         | 0.00           | 0.00          | 0.00         | 0.00           |
| <b>Total crude supply</b>                  | <b>14.72</b> | <b>15.52</b>  | <b>14.67</b> | <b>14.05</b>   | <b>14.96</b>  | <b>13.64</b> | <b>12.56</b>   | <b>15.53</b>  | <b>13.51</b> | <b>11.59</b>   |
| <b>Other petroleum supply</b>              |              |               |              |                |               |              |                |               |              |                |
| Natural gas plant liquids                  | 2.07         | 2.40          | 2.56         | 2.56           | 2.94          | 3.01         | 3.07           | 2.91          | 3.01         | 3.06           |
| Net product imports                        | 0.39         | -0.01         | -0.25        | -0.50          | 0.33          | -0.12        | -0.62          | 0.31          | -0.34        | -0.94          |
| Gross refined product imports <sup>3</sup> | 1.23         | 0.97          | 0.78         | 0.61           | 1.06          | 0.79         | 0.51           | 1.14          | 0.82         | 0.55           |
| Unfinished oil imports                     | 0.61         | 0.74          | 0.64         | 0.56           | 0.67          | 0.51         | 0.38           | 0.74          | 0.50         | 0.26           |
| Blending component imports                 | 0.74         | 0.69          | 0.66         | 0.63           | 0.71          | 0.65         | 0.61           | 0.73          | 0.66         | 0.61           |
| Exports                                    | 2.19         | 2.41          | 2.32         | 2.30           | 2.12          | 2.07         | 2.13           | 2.31          | 2.31         | 2.36           |
| Refinery processing gain <sup>4</sup>      | 1.07         | 0.94          | 0.95         | 0.92           | 0.95          | 0.91         | 0.84           | 0.91          | 0.85         | 0.69           |
| Product stock withdrawal                   | -0.03        | 0.00          | 0.00         | 0.00           | 0.00          | 0.00         | 0.00           | 0.00          | 0.00         | 0.00           |
| <b>Other non-petroleum supply</b>          | <b>1.00</b>  | <b>1.24</b>   | <b>1.22</b>  | <b>1.46</b>    | <b>1.61</b>   | <b>1.86</b>  | <b>2.84</b>    | <b>2.18</b>   | <b>2.96</b>  | <b>4.87</b>    |
| Supply from renewable sources              | 0.87         | 1.11          | 1.05         | 1.20           | 1.42          | 1.48         | 2.01           | 1.92          | 2.37         | 3.24           |
| Ethanol                                    | 0.85         | 1.00          | 0.94         | 1.05           | 1.20          | 1.19         | 1.64           | 1.36          | 1.65         | 2.15           |
| Domestic production                        | 0.88         | 0.99          | 0.94         | 0.99           | 1.18          | 1.17         | 1.47           | 1.35          | 1.59         | 1.96           |
| Net imports                                | -0.02        | 0.01          | 0.00         | 0.06           | 0.02          | 0.02         | 0.17           | 0.01          | 0.06         | 0.19           |
| Biodiesel                                  | 0.01         | 0.08          | 0.09         | 0.12           | 0.12          | 0.12         | 0.13           | 0.13          | 0.13         | 0.14           |
| Domestic production                        | 0.02         | 0.08          | 0.09         | 0.11           | 0.12          | 0.12         | 0.13           | 0.13          | 0.13         | 0.14           |
| Net imports                                | -0.01        | 0.00          | 0.00         | 0.00           | 0.00          | 0.00         | 0.00           | 0.00          | -0.00        | -0.00          |
| Other biomass-derived liquids <sup>5</sup> | 0.00         | 0.02          | 0.03         | 0.03           | 0.10          | 0.16         | 0.24           | 0.44          | 0.59         | 0.95           |
| Liquids from gas                           | 0.00         | 0.00          | 0.00         | 0.00           | 0.00          | 0.00         | 0.06           | 0.00          | 0.00         | 0.06           |
| Liquids from coal                          | 0.00         | 0.00          | 0.00         | 0.00           | 0.05          | 0.17         | 0.52           | 0.05          | 0.28         | 1.27           |
| Other <sup>6</sup>                         | 0.13         | 0.14          | 0.17         | 0.26           | 0.15          | 0.21         | 0.24           | 0.20          | 0.31         | 0.30           |
| <b>Total primary supply<sup>7</sup></b>    | <b>19.22</b> | <b>20.09</b>  | <b>19.14</b> | <b>18.49</b>   | <b>20.79</b>  | <b>19.29</b> | <b>18.69</b>   | <b>21.84</b>  | <b>19.99</b> | <b>19.27</b>   |
| <b>Liquid fuels consumption</b>            |              |               |              |                |               |              |                |               |              |                |
| <b>by fuel</b>                             |              |               |              |                |               |              |                |               |              |                |
| Liquefied petroleum gases                  | 2.27         | 2.00          | 1.94         | 1.90           | 2.30          | 2.21         | 2.15           | 2.32          | 2.21         | 2.15           |
| E85 <sup>8</sup>                           | 0.00         | 0.01          | 0.01         | 0.25           | 0.02          | 0.21         | 1.02           | 0.14          | 0.83         | 1.80           |
| Motor gasoline <sup>9</sup>                | 8.99         | 9.48          | 8.88         | 8.19           | 9.45          | 8.29         | 6.97           | 9.97          | 8.09         | 6.55           |
| Jet fuel <sup>10</sup>                     | 1.43         | 1.47          | 1.46         | 1.45           | 1.55          | 1.54         | 1.54           | 1.61          | 1.61         | 1.60           |
| Distillate fuel oil <sup>11</sup>          | 3.80         | 4.34          | 4.19         | 4.10           | 4.45          | 4.33         | 4.34           | 4.67          | 4.48         | 4.51           |
| Diesel                                     | 3.32         | 3.82          | 3.71         | 3.66           | 3.99          | 3.92         | 3.96           | 4.24          | 4.11         | 4.16           |
| Residual fuel oil                          | 0.54         | 0.60          | 0.56         | 0.55           | 0.63          | 0.57         | 0.56           | 0.67          | 0.58         | 0.57           |
| Other <sup>12</sup>                        | 2.14         | 2.23          | 2.06         | 1.97           | 2.38          | 2.06         | 1.95           | 2.51          | 2.10         | 1.94           |
| <b>by sector</b>                           |              |               |              |                |               |              |                |               |              |                |
| Residential and commercial                 | 1.12         | 1.12          | 1.00         | 0.92           | 1.09          | 0.94         | 0.87           | 1.07          | 0.91         | 0.84           |
| Industrial <sup>13</sup>                   | 4.31         | 4.41          | 4.17         | 4.05           | 4.83          | 4.41         | 4.26           | 5.00          | 4.44         | 4.22           |
| Transportation                             | 13.82        | 14.47         | 13.80        | 13.31          | 14.69         | 13.71        | 13.26          | 15.64         | 14.41        | 13.90          |
| Electric power <sup>14</sup>               | 0.17         | 0.14          | 0.13         | 0.13           | 0.16          | 0.14         | 0.14           | 0.19          | 0.14         | 0.14           |
| <b>Total</b>                               | <b>19.17</b> | <b>20.14</b>  | <b>19.10</b> | <b>18.41</b>   | <b>20.77</b>  | <b>19.20</b> | <b>18.53</b>   | <b>21.90</b>  | <b>19.90</b> | <b>19.12</b>   |
| <b>Discrepancy<sup>15</sup></b>            | <b>0.05</b>  | <b>-0.05</b>  | <b>0.05</b>  | <b>0.08</b>    | <b>0.01</b>   | <b>0.10</b>  | <b>0.16</b>    | <b>-0.06</b>  | <b>0.09</b>  | <b>0.15</b>    |

**Table C4. Liquid fuels supply and disposition (continued)**  
(million barrels per day, unless otherwise noted)

| Supply and disposition                                                                          | 2010   | Projections   |           |                |               |           |                |               |           |                |
|-------------------------------------------------------------------------------------------------|--------|---------------|-----------|----------------|---------------|-----------|----------------|---------------|-----------|----------------|
|                                                                                                 |        | 2015          |           |                | 2025          |           |                | 2035          |           |                |
|                                                                                                 |        | 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 <sup>16</sup> . . . . .                                 | 17.6   | 17.6          | 17.5      | 17.1           | 16.8          | 15.5      | 14.6           | 17.1          | 15.2      | 13.8           |
| Capacity utilization rate (percent) <sup>17</sup> . . . . .                                     | 86.0   | 90.3          | 85.9      | 84.0           | 91.0          | 90.1      | 88.0           | 93.0          | 90.8      | 85.7           |
| Net import share of product supplied (percent)                                                  | 49.6   | 47.9          | 43.2      | 38.9           | 47.8          | 37.0      | 26.0           | 50.7          | 36.2      | 21.6           |
| Net expenditures for imported crude oil and petroleum products (billion 2010 dollars) . . . . . | 243.07 | 207.99        | 373.00    | 523.15         | 189.41        | 344.58    | 384.81         | 226.36        | 389.97    | 363.97         |

<sup>1</sup>Includes lease condensate.

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

<sup>3</sup>Includes other hydrocarbons and alcohols.

<sup>4</sup>The 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.

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

<sup>6</sup>Includes domestic sources of other blending components, other hydrocarbons, and ethers.

<sup>7</sup>Total crude supply plus other petroleum supply plus other non-petroleum supply.

<sup>8</sup>E85 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.

<sup>9</sup>Includes ethanol and ethers blended into gasoline.

<sup>10</sup>Includes only kerosene type.

<sup>11</sup>Includes distillate fuel oil and kerosene from petroleum and biomass feedstocks.

<sup>12</sup>Includes aviation gasoline, petrochemical feedstocks, lubricants, waxes, asphalt, road oil, still gas, special naphthas, petroleum coke, crude oil product supplied, methanol, and miscellaneous petroleum products.

<sup>13</sup>Includes consumption for combined heat and power, which produces electricity and other useful thermal energy.

<sup>14</sup>Includes consumption of energy by electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public.

Includes small power producers and exempt wholesale generators.

<sup>15</sup>Balancing item. Includes unaccounted for supply, losses, and gains.

<sup>16</sup>End-of-year operable capacity.

<sup>17</sup>Rate 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 2010 are model results and may differ slightly from official EIA data reports.

Sources: 2010 product supplied based on: U.S. Energy Information Administration (EIA), *Annual Energy Review 2010*, DOE/EIA-0384(2010) (Washington, DC, October 2011). Other 2010 data: EIA, *Petroleum Supply Annual 2010*, DOE/EIA-0340(2010)/1 (Washington, DC, July 2011). Projections: EIA, AEO2012 National Energy Modeling System runs LP2012.D022112A, REF2012.D020112C, and HP2012.D022112A.

**Table C5. Petroleum product prices**  
(2010 dollars per gallon, unless otherwise noted)

| Sector and fuel                                      | 2010         | Projections   |              |                |               |              |                |               |              |                |
|------------------------------------------------------|--------------|---------------|--------------|----------------|---------------|--------------|----------------|---------------|--------------|----------------|
|                                                      |              | 2015          |              |                | 2025          |              |                | 2035          |              |                |
|                                                      |              | Low oil price | Reference    | High oil price | Low oil price | Reference    | High oil price | Low oil price | Reference    | High oil price |
| <b>Crude oil prices (2010 dollars per barrel)</b>    |              |               |              |                |               |              |                |               |              |                |
| Low sulfur light .....                               | 79.39        | 58.36         | 116.91       | 182.10         | 59.41         | 132.56       | 193.48         | 62.38         | 144.98       | 200.36         |
| Imported crude oil <sup>1</sup> .....                | 75.87        | 55.41         | 113.97       | 179.16         | 48.84         | 121.21       | 180.29         | 53.10         | 132.95       | 187.04         |
| <b>Delivered sector product prices</b>               |              |               |              |                |               |              |                |               |              |                |
| <b>Residential</b>                                   |              |               |              |                |               |              |                |               |              |                |
| Liquefied petroleum gases .....                      | 2.288        | 1.909         | 2.600        | 3.361          | 1.878         | 2.733        | 3.423          | 1.989         | 2.934        | 3.560          |
| Distillate fuel oil .....                            | 2.941        | 2.295         | 3.781        | 5.310          | 2.395         | 4.181        | 5.441          | 2.560         | 4.539        | 5.547          |
| <b>Commercial</b>                                    |              |               |              |                |               |              |                |               |              |                |
| Distillate fuel oil .....                            | 2.866        | 1.917         | 3.303        | 4.778          | 1.982         | 3.699        | 4.942          | 2.136         | 4.019        | 5.008          |
| Residual fuel oil .....                              | 1.657        | 0.896         | 2.421        | 4.161          | 0.935         | 2.731        | 4.240          | 1.033         | 2.830        | 4.207          |
| Residual fuel oil (2010 dollars per barrel) ...      | 69.58        | 37.63         | 101.70       | 174.76         | 39.28         | 114.70       | 178.07         | 43.37         | 118.85       | 176.71         |
| <b>Industrial<sup>2</sup></b>                        |              |               |              |                |               |              |                |               |              |                |
| Liquefied petroleum gases .....                      | 1.846        | 1.438         | 2.323        | 3.292          | 1.383         | 2.476        | 3.355          | 1.520         | 2.725        | 3.523          |
| Distillate fuel oil .....                            | 2.932        | 1.991         | 3.322        | 4.780          | 2.053         | 3.737        | 4.986          | 2.223         | 4.054        | 5.025          |
| Residual fuel oil .....                              | 1.634        | 1.423         | 2.876        | 4.521          | 1.436         | 3.178        | 4.554          | 1.492         | 3.241        | 4.582          |
| Residual fuel oil (2010 dollars per barrel) ...      | 68.62        | 59.77         | 120.80       | 189.87         | 60.33         | 133.47       | 191.28         | 62.65         | 136.12       | 192.45         |
| <b>Transportation</b>                                |              |               |              |                |               |              |                |               |              |                |
| Liquefied petroleum gases .....                      | 2.276        | 2.021         | 2.704        | 3.447          | 1.987         | 2.827        | 3.508          | 2.097         | 3.026        | 3.645          |
| Ethanol (E85) <sup>3</sup> .....                     | 2.402        | 1.731         | 2.766        | 3.631          | 1.638         | 2.746        | 3.996          | 1.581         | 3.046        | 3.717          |
| Ethanol wholesale price .....                        | 1.712        | 2.356         | 2.228        | 2.622          | 2.215         | 2.333        | 2.741          | 1.985         | 2.159        | 2.571          |
| Motor gasoline <sup>4</sup> .....                    | 2.756        | 2.240         | 3.538        | 4.974          | 2.185         | 3.855        | 5.196          | 2.219         | 4.034        | 5.053          |
| Jet fuel <sup>5</sup> .....                          | 2.190        | 1.704         | 3.205        | 4.760          | 1.728         | 3.571        | 4.845          | 1.884         | 3.932        | 4.981          |
| Diesel fuel (distillate fuel oil) <sup>6</sup> ..... | 2.998        | 2.465         | 3.776        | 5.237          | 2.486         | 4.168        | 5.435          | 2.624         | 4.439        | 5.430          |
| Residual fuel oil .....                              | 1.560        | 1.294         | 2.742        | 4.344          | 1.298         | 3.086        | 4.397          | 1.311         | 3.136        | 4.469          |
| Residual fuel oil (2010 dollars per barrel) ...      | 65.53        | 54.33         | 115.15       | 182.43         | 54.50         | 129.62       | 184.67         | 55.06         | 131.73       | 187.70         |
| <b>Electric power<sup>7</sup></b>                    |              |               |              |                |               |              |                |               |              |                |
| Distillate fuel oil .....                            | 2.598        | 1.673         | 3.157        | 4.655          | 1.739         | 3.515        | 4.737          | 1.880         | 3.856        | 4.861          |
| Residual fuel oil .....                              | 1.780        | 1.957         | 3.443        | 5.051          | 1.814         | 3.802        | 5.135          | 1.677         | 3.850        | 5.178          |
| Residual fuel oil (2010 dollars per barrel) ...      | 74.77        | 82.21         | 144.60       | 212.13         | 76.19         | 159.70       | 215.65         | 70.44         | 161.71       | 217.49         |
| <b>Refined petroleum product prices<sup>8</sup></b>  |              |               |              |                |               |              |                |               |              |                |
| Liquefied petroleum gases .....                      | 1.464        | 1.239         | 1.947        | 2.729          | 1.177         | 2.049        | 2.758          | 1.294         | 2.255        | 2.896          |
| Motor gasoline <sup>4</sup> .....                    | 2.743        | 2.240         | 3.538        | 4.974          | 2.185         | 3.855        | 5.196          | 2.219         | 4.034        | 5.053          |
| Jet fuel <sup>5</sup> .....                          | 2.190        | 1.704         | 3.205        | 4.760          | 1.728         | 3.571        | 4.845          | 1.884         | 3.932        | 4.981          |
| Distillate fuel oil .....                            | 2.975        | 2.355         | 3.687        | 5.153          | 2.394         | 4.089        | 5.355          | 2.543         | 4.376        | 5.366          |
| Residual fuel oil .....                              | 1.619        | 1.372         | 2.845        | 4.464          | 1.371         | 3.189        | 4.523          | 1.381         | 3.246        | 4.585          |
| Residual fuel oil (2010 dollars per barrel) ...      | 68.00        | 57.63         | 119.50       | 187.48         | 57.57         | 133.95       | 189.96         | 57.99         | 136.32       | 192.56         |
| <b>Average</b> .....                                 | <b>2.528</b> | <b>2.059</b>  | <b>3.316</b> | <b>4.691</b>   | <b>2.015</b>  | <b>3.600</b> | <b>4.808</b>   | <b>2.101</b>  | <b>3.830</b> | <b>4.785</b>   |

**Table C5. Petroleum product prices (continued)**  
(nominal dollars per gallon, unless otherwise noted)

| Sector and fuel                                      | 2010         | Projections   |              |                |               |              |                |               |              |                |
|------------------------------------------------------|--------------|---------------|--------------|----------------|---------------|--------------|----------------|---------------|--------------|----------------|
|                                                      |              | 2015          |              |                | 2025          |              |                | 2035          |              |                |
|                                                      |              | Low oil price | Reference    | High oil price | Low oil price | Reference    | High oil price | Low oil price | Reference    | High oil price |
| <b>Crude oil prices (nominal dollars per barrel)</b> |              |               |              |                |               |              |                |               |              |                |
| Low sulfur light                                     | 79.39        | 62.81         | 125.97       | 195.67         | 77.32         | 170.09       | 245.37         | 98.91         | 229.55       | 314.93         |
| Imported crude oil <sup>1</sup>                      | 75.87        | 59.64         | 122.81       | 192.52         | 63.56         | 155.52       | 228.64         | 84.19         | 210.51       | 294.00         |
| <b>Delivered sector product prices</b>               |              |               |              |                |               |              |                |               |              |                |
| <b>Residential</b>                                   |              |               |              |                |               |              |                |               |              |                |
| Liquefied petroleum gases                            | 2.288        | 2.054         | 2.801        | 3.612          | 2.445         | 3.507        | 4.341          | 3.154         | 4.645        | 5.595          |
| Distillate fuel oil                                  | 2.941        | 2.470         | 4.074        | 5.706          | 3.117         | 5.365        | 6.901          | 4.060         | 7.188        | 8.719          |
| <b>Commercial</b>                                    |              |               |              |                |               |              |                |               |              |                |
| Distillate fuel oil                                  | 2.866        | 2.063         | 3.559        | 5.135          | 2.580         | 4.747        | 6.268          | 3.387         | 6.364        | 7.872          |
| Residual fuel oil                                    | 1.657        | 0.964         | 2.609        | 4.471          | 1.217         | 3.504        | 5.377          | 1.637         | 4.481        | 6.613          |
| <b>Industrial<sup>2</sup></b>                        |              |               |              |                |               |              |                |               |              |                |
| Liquefied petroleum gases                            | 1.846        | 1.548         | 2.503        | 3.537          | 1.800         | 3.177        | 4.255          | 2.410         | 4.315        | 5.537          |
| Distillate fuel oil                                  | 2.932        | 2.143         | 3.580        | 5.136          | 2.671         | 4.795        | 6.323          | 3.524         | 6.419        | 7.898          |
| Residual fuel oil                                    | 1.634        | 1.532         | 3.099        | 4.858          | 1.869         | 4.077        | 5.776          | 2.365         | 5.132        | 7.202          |
| <b>Transportation</b>                                |              |               |              |                |               |              |                |               |              |                |
| Liquefied petroleum gases                            | 2.276        | 2.175         | 2.914        | 3.704          | 2.586         | 3.627        | 4.449          | 3.326         | 4.792        | 5.729          |
| Ethanol (E85) <sup>3</sup>                           | 2.402        | 1.863         | 2.981        | 3.902          | 2.131         | 3.523        | 5.067          | 2.507         | 4.823        | 5.843          |
| Ethanol wholesale price                              | 1.712        | 2.535         | 2.400        | 2.818          | 2.883         | 2.994        | 3.477          | 3.147         | 3.419        | 4.041          |
| Motor gasoline <sup>4</sup>                          | 2.756        | 2.411         | 3.812        | 5.345          | 2.843         | 4.946        | 6.589          | 3.519         | 6.388        | 7.943          |
| Jet fuel <sup>5</sup>                                | 2.190        | 1.834         | 3.454        | 5.115          | 2.249         | 4.582        | 6.144          | 2.988         | 6.226        | 7.829          |
| Diesel fuel (distillate fuel oil) <sup>6</sup>       | 2.998        | 2.653         | 4.069        | 5.628          | 3.235         | 5.348        | 6.893          | 4.161         | 7.029        | 8.535          |
| Residual fuel oil                                    | 1.560        | 1.392         | 2.954        | 4.668          | 1.689         | 3.960        | 5.576          | 2.079         | 4.966        | 7.025          |
| <b>Electric power<sup>7</sup></b>                    |              |               |              |                |               |              |                |               |              |                |
| Distillate fuel oil                                  | 2.598        | 1.801         | 3.402        | 5.002          | 2.263         | 4.510        | 6.008          | 2.982         | 6.105        | 7.641          |
| Residual fuel oil                                    | 1.780        | 2.107         | 3.710        | 5.427          | 2.361         | 4.879        | 6.512          | 2.659         | 6.096        | 8.140          |
| <b>Refined petroleum product prices<sup>8</sup></b>  |              |               |              |                |               |              |                |               |              |                |
| Liquefied petroleum gases                            | 1.464        | 1.334         | 2.098        | 2.933          | 1.531         | 2.629        | 3.498          | 2.052         | 3.571        | 4.552          |
| Motor gasoline <sup>4</sup>                          | 2.743        | 2.411         | 3.812        | 5.345          | 2.843         | 4.946        | 6.589          | 3.519         | 6.387        | 7.942          |
| Jet fuel <sup>5</sup>                                | 2.190        | 1.834         | 3.454        | 5.115          | 2.249         | 4.582        | 6.144          | 2.988         | 6.226        | 7.829          |
| Distillate fuel oil                                  | 2.975        | 2.534         | 3.973        | 5.537          | 3.115         | 5.246        | 6.791          | 4.032         | 6.930        | 8.434          |
| Residual fuel oil (nominal dollars per barrel)       | 68.00        | 62.03         | 128.77       | 201.46         | 74.93         | 171.87       | 240.90         | 91.95         | 215.84       | 302.67         |
| <b>Average</b>                                       | <b>2.528</b> | <b>2.216</b>  | <b>3.573</b> | <b>5.041</b>   | <b>2.623</b>  | <b>4.620</b> | <b>6.097</b>   | <b>3.331</b>  | <b>6.064</b> | <b>7.520</b>   |

<sup>1</sup>Weighted average price delivered to U.S. refiners.

<sup>2</sup>Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public.

<sup>3</sup>E85 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.

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

<sup>5</sup>Includes only kerosene type.

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

<sup>7</sup>Includes electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

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

Note: Data for 2010 are model results and may differ slightly from official EIA data reports.

Sources: 2010 low sulfur light crude oil price: U.S. Energy Information Administration (EIA), Form EIA-856, "Monthly Foreign Crude Oil Acquisition Report." 2010 imported crude oil price: EIA, *Annual Energy Review 2010*, DOE/EIA-0384(2010) (Washington, DC, October 2011). 2010 prices for motor gasoline, distillate fuel oil, and jet fuel are based on: EIA, *Petroleum Marketing Annual 2009*, DOE/EIA-0487(2009) (Washington, DC, August 2010). 2010 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." 2010 electric power prices based on: *Monthly Energy Review*, DOE/EIA-0035(2011/09) (Washington, DC, September 2011). 2010 E85 prices derived from monthly prices in the Clean Cities Alternative Fuel Price Report. 2010 wholesale ethanol prices derived from Bloomberg U.S. average rack price. Projections: EIA, AEO2012 National Energy Modeling System runs LP2012.D022112A, REF2012.D020112C, and HP2012.D022112A.

**Table C6. International liquids supply and disposition summary**  
(million barrels per day, unless otherwise noted)

| Supply and disposition                                           | 2010         | Projections   |              |                |               |               |                |               |               |                |
|------------------------------------------------------------------|--------------|---------------|--------------|----------------|---------------|---------------|----------------|---------------|---------------|----------------|
|                                                                  |              | 2015          |              |                | 2025          |               |                | 2035          |               |                |
|                                                                  |              | Low oil price | Reference    | High oil price | Low oil price | Reference     | High oil price | Low oil price | Reference     | High oil price |
| <b>Crude oil prices (2010 dollars per barrel)</b>                |              |               |              |                |               |               |                |               |               |                |
| Low sulfur light .....                                           | 79.39        | 58.36         | 116.91       | 182.10         | 59.41         | 132.56        | 193.48         | 62.38         | 144.98        | 200.36         |
| Imported crude oil <sup>1</sup> .....                            | 75.87        | 55.41         | 113.97       | 179.16         | 48.84         | 121.21        | 180.29         | 53.10         | 132.95        | 187.04         |
| <b>Crude oil prices (nominal dollars per barrel)<sup>1</sup></b> |              |               |              |                |               |               |                |               |               |                |
| Low sulfur light .....                                           | 79.39        | 62.81         | 125.97       | 195.67         | 77.32         | 170.09        | 245.37         | 98.91         | 229.55        | 314.93         |
| Imported crude oil <sup>1</sup> .....                            | 75.87        | 59.64         | 122.81       | 192.52         | 63.56         | 155.52        | 228.64         | 84.19         | 210.51        | 294.00         |
| <b>Petroleum liquids production<sup>2</sup></b>                  |              |               |              |                |               |               |                |               |               |                |
| OPEC <sup>3</sup>                                                |              |               |              |                |               |               |                |               |               |                |
| Middle East .....                                                | 23.43        | 29.09         | 25.46        | 23.39          | 33.98         | 29.77         | 28.26          | 35.70         | 33.94         | 32.96          |
| North Africa .....                                               | 3.89         | 4.01          | 3.62         | 3.48           | 3.66          | 3.37          | 3.41           | 3.12          | 3.27          | 3.28           |
| West Africa .....                                                | 4.45         | 5.57          | 5.09         | 4.86           | 5.92          | 5.40          | 5.47           | 5.74          | 5.26          | 5.27           |
| South America .....                                              | 2.29         | 2.37          | 2.13         | 2.05           | 2.06          | 1.92          | 1.94           | 1.63          | 1.72          | 1.72           |
| <b>Total OPEC petroleum production</b> ...                       | <b>34.05</b> | <b>41.03</b>  | <b>36.30</b> | <b>33.78</b>   | <b>45.62</b>  | <b>40.46</b>  | <b>39.09</b>   | <b>46.18</b>  | <b>44.19</b>  | <b>43.24</b>   |
| Non-OPEC                                                         |              |               |              |                |               |               |                |               |               |                |
| OECD                                                             |              |               |              |                |               |               |                |               |               |                |
| United States (50 states) .....                                  | 8.79         | 9.36          | 9.82         | 10.15          | 9.42          | 10.53         | 11.40          | 8.81          | 10.15         | 10.72          |
| Canada .....                                                     | 1.91         | 1.79          | 1.79         | 1.82           | 1.77          | 1.82          | 1.85           | 1.75          | 1.78          | 1.87           |
| Mexico .....                                                     | 2.98         | 2.65          | 2.65         | 2.59           | 1.46          | 1.58          | 1.50           | 1.27          | 1.68          | 1.67           |
| OECD Europe <sup>4</sup> .....                                   | 4.36         | 3.72          | 3.70         | 3.63           | 3.03          | 3.15          | 3.01           | 2.79          | 2.83          | 2.82           |
| Japan .....                                                      | 0.13         | 0.15          | 0.14         | 0.14           | 0.15          | 0.15          | 0.15           | 0.15          | 0.16          | 0.16           |
| Australia and New Zealand .....                                  | 0.62         | 0.55          | 0.55         | 0.54           | 0.52          | 0.54          | 0.52           | 0.52          | 0.53          | 0.53           |
| <b>Total OECD petroleum production</b> ...                       | <b>18.80</b> | <b>18.22</b>  | <b>18.65</b> | <b>18.88</b>   | <b>16.34</b>  | <b>17.78</b>  | <b>18.42</b>   | <b>15.29</b>  | <b>17.14</b>  | <b>17.76</b>   |
| Non-OECD                                                         |              |               |              |                |               |               |                |               |               |                |
| Russia .....                                                     | 10.14        | 9.74          | 10.04        | 9.79           | 9.73          | 11.06         | 10.38          | 8.96          | 12.16         | 12.02          |
| Other Europe and Eurasia <sup>5</sup> .....                      | 3.22         | 3.68          | 3.67         | 3.58           | 4.02          | 4.37          | 4.11           | 3.27          | 4.54          | 4.49           |
| China .....                                                      | 4.27         | 4.32          | 4.29         | 4.21           | 4.55          | 4.79          | 4.52           | 4.66          | 4.70          | 4.67           |
| Other Asia <sup>6</sup> .....                                    | 3.77         | 3.80          | 3.79         | 3.73           | 3.23          | 3.38          | 3.22           | 2.97          | 3.00          | 2.99           |
| Middle East .....                                                | 1.58         | 1.43          | 1.43         | 1.40           | 1.12          | 1.18          | 1.11           | 0.97          | 0.97          | 0.97           |
| Africa .....                                                     | 2.41         | 2.41          | 2.40         | 2.36           | 2.55          | 2.68          | 2.54           | 2.67          | 2.68          | 2.67           |
| Brazil .....                                                     | 2.19         | 2.73          | 2.72         | 2.66           | 3.47          | 3.87          | 3.64           | 3.32          | 4.45          | 4.40           |
| Other Central and South America .....                            | 2.01         | 2.30          | 2.29         | 2.26           | 2.36          | 2.47          | 2.35           | 2.64          | 2.65          | 2.63           |
| <b>Total non-OECD petroleum</b>                                  | <b>29.59</b> | <b>30.40</b>  | <b>30.63</b> | <b>29.99</b>   | <b>31.02</b>  | <b>33.80</b>  | <b>31.86</b>   | <b>29.47</b>  | <b>35.15</b>  | <b>34.83</b>   |
| <b>Total petroleum liquids production</b> .....                  | <b>82.44</b> | <b>89.66</b>  | <b>85.58</b> | <b>82.65</b>   | <b>92.98</b>  | <b>92.04</b>  | <b>89.37</b>   | <b>90.93</b>  | <b>96.47</b>  | <b>95.83</b>   |
| <b>Other liquids production<sup>7</sup></b>                      |              |               |              |                |               |               |                |               |               |                |
| United States (50 states) .....                                  | 0.90         | 1.10          | 1.05         | 1.14           | 1.45          | 1.62          | 2.42           | 1.96          | 2.59          | 4.38           |
| Other North America .....                                        | 1.93         | 2.55          | 2.51         | 2.90           | 4.09          | 3.75          | 4.78           | 5.53          | 5.16          | 6.53           |
| OECD Europe <sup>3</sup> .....                                   | 0.22         | 0.28          | 0.23         | 0.27           | 0.37          | 0.26          | 0.30           | 0.45          | 0.28          | 0.32           |
| Middle East .....                                                | 0.01         | 0.13          | 0.17         | 0.14           | 0.23          | 0.24          | 0.21           | 0.22          | 0.24          | 0.22           |
| Africa .....                                                     | 0.21         | 0.27          | 0.28         | 0.28           | 0.42          | 0.38          | 0.39           | 0.53          | 0.40          | 0.41           |
| Central and South America .....                                  | 1.20         | 2.15          | 1.78         | 2.06           | 4.07          | 2.61          | 2.97           | 5.75          | 3.17          | 3.51           |
| Other .....                                                      | 0.13         | 0.21          | 0.16         | 0.24           | 0.81          | 0.61          | 1.15           | 1.75          | 1.18          | 1.69           |
| <b>Total other liquids production</b> .....                      | <b>4.61</b>  | <b>6.70</b>   | <b>6.18</b>  | <b>7.01</b>    | <b>11.43</b>  | <b>9.47</b>   | <b>12.22</b>   | <b>16.19</b>  | <b>13.02</b>  | <b>17.07</b>   |
| <b>Total production</b> .....                                    | <b>87.05</b> | <b>96.36</b>  | <b>91.76</b> | <b>89.67</b>   | <b>104.42</b> | <b>101.51</b> | <b>101.59</b>  | <b>107.13</b> | <b>109.50</b> | <b>112.90</b>  |

**Table C6. International liquids supply and disposition summary (continued)**  
(million barrels per day, unless otherwise noted)

| Supply and disposition                      | 2010         | Projections   |              |                |               |               |                |               |               |                |
|---------------------------------------------|--------------|---------------|--------------|----------------|---------------|---------------|----------------|---------------|---------------|----------------|
|                                             |              | 2015          |              |                | 2025          |               |                | 2035          |               |                |
|                                             |              | Low oil price | Reference    | High oil price | Low oil price | Reference     | High oil price | Low oil price | Reference     | High oil price |
| <b>Liquids consumption<sup>8</sup></b>      |              |               |              |                |               |               |                |               |               |                |
| OECD                                        |              |               |              |                |               |               |                |               |               |                |
| United States (50 states) .....             | 19.17        | 20.14         | 19.10        | 18.41          | 20.77         | 19.20         | 18.53          | 21.90         | 19.90         | 19.12          |
| United States territories .....             | 0.28         | 0.32          | 0.31         | 0.30           | 0.32          | 0.34          | 0.34           | 0.31          | 0.36          | 0.38           |
| Canada .....                                | 2.21         | 2.27          | 2.15         | 2.09           | 2.46          | 2.25          | 2.22           | 2.56          | 2.35          | 2.40           |
| Mexico .....                                | 2.34         | 2.50          | 2.38         | 2.30           | 2.78          | 2.50          | 2.32           | 3.20          | 2.68          | 2.43           |
| OECD Europe <sup>3</sup> .....              | 14.58        | 14.86         | 14.14        | 13.69          | 15.97         | 14.65         | 13.85          | 16.10         | 14.74         | 13.93          |
| Japan .....                                 | 4.45         | 4.80          | 4.51         | 4.35           | 5.14          | 4.62          | 4.33           | 4.92          | 4.42          | 4.14           |
| South Korea .....                           | 2.24         | 2.39          | 2.25         | 2.18           | 2.73          | 2.46          | 2.31           | 2.93          | 2.56          | 2.39           |
| Australia and New Zealand .....             | 1.13         | 1.16          | 1.11         | 1.07           | 1.25          | 1.17          | 1.09           | 1.30          | 1.23          | 1.13           |
| <b>Total OECD consumption .....</b>         | <b>46.40</b> | <b>48.43</b>  | <b>45.95</b> | <b>44.38</b>   | <b>51.42</b>  | <b>47.19</b>  | <b>44.97</b>   | <b>53.23</b>  | <b>48.24</b>  | <b>45.90</b>   |
| Non-OECD                                    |              |               |              |                |               |               |                |               |               |                |
| Russia .....                                | 2.93         | 3.14          | 3.02         | 2.96           | 2.88          | 2.91          | 2.93           | 2.71          | 2.97          | 3.12           |
| Other Europe and Eurasia <sup>5</sup> ..... | 2.08         | 2.37          | 2.30         | 2.26           | 2.35          | 2.45          | 2.44           | 2.32          | 2.63          | 2.69           |
| China .....                                 | 9.19         | 12.64         | 12.10        | 12.06          | 15.65         | 16.03         | 17.21          | 16.35         | 18.50         | 20.87          |
| India .....                                 | 3.18         | 3.88          | 3.70         | 3.64           | 5.22          | 5.40          | 5.78           | 4.93          | 5.80          | 6.54           |
| Other Asia .....                            | 6.73         | 7.56          | 7.28         | 7.19           | 8.44          | 8.85          | 9.15           | 8.48          | 9.89          | 10.78          |
| Middle East .....                           | 7.35         | 8.26          | 7.78         | 7.72           | 8.35          | 8.16          | 8.51           | 9.03          | 9.49          | 10.46          |
| Africa .....                                | 3.34         | 3.44          | 3.30         | 3.24           | 3.43          | 3.57          | 3.57           | 3.47          | 4.09          | 4.21           |
| Brazil .....                                | 2.65         | 3.00          | 2.84         | 2.78           | 3.01          | 3.15          | 3.22           | 3.13          | 3.80          | 4.13           |
| Other Central and South America .....       | 3.19         | 3.63          | 3.49         | 3.42           | 3.67          | 3.81          | 3.82           | 3.49          | 4.09          | 4.21           |
| <b>Total non-OECD consumption .....</b>     | <b>40.65</b> | <b>47.92</b>  | <b>45.82</b> | <b>45.29</b>   | <b>52.99</b>  | <b>54.32</b>  | <b>56.62</b>   | <b>53.90</b>  | <b>61.26</b>  | <b>67.00</b>   |
| <b>Total liquids consumption .....</b>      | <b>87.05</b> | <b>96.36</b>  | <b>91.76</b> | <b>89.67</b>   | <b>104.42</b> | <b>101.51</b> | <b>101.59</b>  | <b>107.13</b> | <b>109.50</b> | <b>112.90</b>  |
| OPEC production <sup>9</sup> .....          | 34.58        | 42.18         | 37.30        | 34.88          | 47.89         | 41.91         | 40.63          | 49.42         | 45.89         | 45.01          |
| Non-OPEC production <sup>9</sup> .....      | 52.47        | 54.18         | 54.46        | 54.79          | 56.52         | 59.60         | 60.97          | 57.71         | 63.61         | 67.89          |
| Net Eurasia exports .....                   | 10.53        | 10.64         | 11.11        | 10.81          | 12.00         | 13.94         | 12.75          | 10.52         | 15.54         | 15.10          |
| OPEC market share (percent) .....           | 39.7         | 43.8          | 40.7         | 38.9           | 45.9          | 41.3          | 40.0           | 46.1          | 41.9          | 39.9           |

<sup>1</sup>Weighted average price delivered to U.S. refiners.

<sup>2</sup>Includes production of crude oil (including lease condensate and shale oil/tight oil), natural gas plant liquids, other hydrogen and hydrocarbons for refinery feedstocks, and refinery gains.

<sup>3</sup>OPEC = Organization of Petroleum Exporting Countries - Algeria, Angola, Ecuador, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, the United Arab Emirates, and Venezuela.

<sup>4</sup>OECD Europe = Organization for Economic Cooperation and Development - Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Poland, Portugal, Slovakia, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

<sup>5</sup>Other Europe and Eurasia = Albania, Armenia, Azerbaijan, Belarus, Bosnia and Herzegovina, Bulgaria, Croatia, Estonia, Georgia, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, Macedonia, Malta, Moldova, Montenegro, Romania, Serbia, Slovenia, Tajikistan, Turkmenistan, Ukraine, and Uzbekistan.

<sup>6</sup>Other Asia = Afghanistan, Bangladesh, Bhutan, Brunei, Cambodia (Kampuchea), Fiji, French Polynesia, Guam, Hong Kong, 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.

<sup>7</sup>Includes liquids produced from energy crops, natural gas, coal, extra-heavy oil, bitumen (oil sands), and kerogen (oil shale, not to be confused with shale oil/tight oil).

Includes both OPEC and non-OPEC producers in the regional breakdown.

<sup>8</sup>Includes both OPEC and non-OPEC consumers in the regional breakdown.

<sup>9</sup>Includes both petroleum and other liquids production.

Note: Totals may not equal sum of components due to independent rounding. Data for 2010 are model results and may differ slightly from official EIA data reports.

Sources: 2010 low sulfur light crude oil price: U.S. Energy Information Administration (EIA), Form EIA-856, "Monthly Foreign Crude Oil Acquisition Report." 2010 imported crude oil price: EIA, *Annual Energy Review 2010*, DOE/EIA-0384(2010) (Washington, DC, October 2011). **2010 quantities and projections:** EIA, AEO2012 National Energy Modeling System runs LP2012.D022112A, REF2012.D020112C, and HP2012.D022112A and EIA, Generate World Oil Balance Model.