

Table 17. Total Energy Consumption, Projected vs. Actual

| Projected | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| (quadrillion Btu) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
| AEO 1994 | 88.0 | 89.5 | 90.7 | 91.7 | 92.7 | 93.6 | 94.6 | 95.7 | 96.7 | 97.7 | 98.9 | 99.9 | 100.7 | 101.6 | 102.4 | 103.3 | 103.9 | 104.7 | | | | | | | | | |
| AEO 1995 | | 89.2 | 90.0 | 90.6 | 91.9 | 93.0 | 93.8 | 94.6 | 95.3 | 96.2 | 97.2 | 98.3 | 99.3 | 100.2 | 100.9 | 101.8 | 102.5 | 103.4 | | | | | | | | | |
| AEO 1996 | | | 90.6 | 91.3 | 92.5 | 93.5 | 94.3 | 95.1 | 95.9 | 96.9 | 98.0 | 99.1 | 100.3 | 101.3 | 101.8 | 102.8 | 103.4 | 104.2 | 105.0 | 106.0 | 106.8 | 107.2 | 107.7 | | | | |
| AEO 1997 | | | | 92.6 | 93.6 | 95.1 | 96.6 | 97.9 | 98.8 | 99.9 | 101.2 | 102.3 | 103.3 | 104.6 | 105.5 | 106.3 | 106.8 | 107.4 | 108.1 | 108.9 | 109.6 | 110.1 | 110.5 | | | | |
| AEO 1998 | | | | | 94.7 | 96.7 | 98.6 | 99.8 | 101.3 | 102.4 | 103.4 | 104.4 | 105.7 | 107.2 | 108.3 | 109.5 | 110.7 | 111.7 | 112.6 | 113.6 | 114.3 | 114.8 | 115.4 | 115.9 | 116.5 | 117.1 | 117.7 |
| AEO 1999 | | | | | | 94.6 | 97.0 | 99.2 | 100.9 | 102.0 | 102.8 | 103.5 | 104.6 | 105.8 | 106.9 | 108.1 | 109.3 | 110.3 | 111.3 | 112.2 | 113.3 | 114.2 | 115.2 | 116.0 | 116.9 | 117.8 | 118.6 |
| AEO 2000 | | | | | | | 96.4 | 98.1 | 99.4 | 100.9 | 102.4 | 103.7 | 105.2 | 106.5 | 107.6 | 108.8 | 109.8 | 110.8 | 111.6 | 112.7 | 113.9 | 115.1 | 116.3 | 117.0 | 117.9 | 118.7 | 119.6 |
| AEO 2001 | | | | | | | | 97.6 | 99.9 | 102.2 | 104.1 | 105.6 | 107.0 | 108.4 | 109.8 | 111.1 | 112.3 | 113.6 | 114.8 | 116.1 | 117.6 | 118.9 | 120.4 | 121.6 | 122.9 | 124.0 | 125.3 |
| AEO 2002 | | | | | | | | | 98.3 | 101.0 | 104.0 | 105.8 | 107.5 | 109.2 | 110.5 | 111.9 | 113.4 | 115.1 | 117.0 | 118.6 | 120.4 | 121.8 | 123.3 | 124.7 | 126.1 | 127.6 | 129.1 |
| AEO 2003 | | | | | | | | | | 97.5 | 99.9 | 101.6 | 103.1 | 105.0 | 107.0 | 108.9 | 110.7 | 112.8 | 114.7 | 116.6 | 118.4 | 120.0 | 121.5 | 123.1 | 124.6 | 126.2 | 128.0 |
| AEO 2004 | | | | | | | | | | | 98.1 | 100.1 | 102.7 | 104.8 | 106.5 | 108.2 | 109.5 | 111.3 | 113.0 | 114.7 | 116.6 | 118.0 | 119.4 | 120.9 | 122.5 | 124.2 | 125.9 |
| AEO 2005 | | | | | | | | | | | | 99.8 | 101.8 | 103.5 | 105.3 | 107.5 | 109.3 | 110.8 | 112.3 | 113.8 | 115.2 | 116.7 | 117.9 | 119.3 | 120.9 | 122.4 | 123.8 |
| AEO 2006 | | | | | | | | | | | | | 100.4 | 101.2 | 103.1 | 104.6 | 105.9 | 107.4 | 108.6 | 110.1 | 111.4 | 112.5 | 113.8 | 115.2 | 116.5 | 117.8 | 119.0 |
| AEO 2007 | | | | | | | | | | | | | | 100.6 | 102.1 | 103.4 | 104.6 | 106.0 | 107.2 | 108.4 | 109.7 | 110.9 | 111.9 | 113.1 | 114.1 | 115.2 | 116.5 |
| AEO 2008 | | | | | | | | | | | | | | | 101.1 | 102.0 | 101.8 | 102.8 | 104.1 | 105.0 | 105.4 | 106.1 | 106.9 | 107.7 | 108.4 | 109.1 | 109.7 |
| AEO 2009 | | | | | | | | | | | | | | | | 100.2 | 97.6 | 98.6 | 100.0 | 101.1 | 101.8 | 101.8 | 101.7 | 102.0 | 102.4 | 102.9 | 103.5 |
| AEO 2010 | | | | | | | | | | | | | | | | | 95.2 | 96.1 | 96.0 | 99.5 | 100.2 | 100.9 | 101.2 | 101.8 | 102.4 | 103.0 | 103.9 |
| AEO 2011 | | | | | | | | | | | | | | | | | | 97.3 | 97.8 | 98.9 | 100.4 | 100.7 | 101.7 | 102.2 | 102.7 | 103.2 | 103.8 |
| AEO 2012 | | | | | | | | | | | | | | | | | | | 97.8 | 97.4 | 96.3 | 96.8 | 97.1 | 97.5 | 97.7 | 98.0 | 98.5 |
| AEO 2013 | | | | | | | | | | | | | | | | | | | | 95.5 | 95.9 | 96.2 | 97.4 | 98.0 | 98.8 | 99.5 | 100.3 |
| AEO 2014 | | | | | | | | | | | | | | | | | | | | | 96.1 | 96.3 | 97.4 | 98.1 | 99.0 | 99.6 | 100.1 |
| AEO 2015 | | | | | | | | | | | | | | | | | | | | | | 98.5 | 97.8 | 98.7 | 99.0 | 99.7 | 100.5 |
| AEO 2016 | | | | | | | | | | | | | | | | | | | | | | | 96.7 | 97.6 | 98.7 | 99.4 | 100.2 |
| AEO 2017 | | | | | | | | | | | | | | | | | | | | | | | | 96.5 | 97.3 | 98.6 | 99.5 |
| AEO 2018 | | | | | | | | | | | | | | | | | | | | | | | | | 97.3 | 99.0 | 99.9 |
| AEO 2019 | | | | | | | | | | | | | | | | | | | | | | | | | | 100.1 | 100.3 |
| AEO 2020 | | | | | | | | | | | | | | | | | | | | | | | | | | | 100.0 |
| Actual | 87.4 | 89.1 | 91.0 | 94.0 | 94.6 | 95.0 | 96.7 | 98.8 | 96.2 | 97.6 | 97.9 | 100.1 | 100.2 | 99.5 | 101.0 | 98.9 | 94.1 | 97.5 | 96.9 | 94.5 | 97.2 | 98.5 | 97.5 | 97.6 | 97.7 | 101.1 | 100.3 |
| Average Absolute Difference | 0.7 | 0.3 | 0.6 | 2.5 | 1.5 | 1.2 | 1.4 | 1.9 | 2.6 | 2.5 | 3.1 | 2.5 | 3.1 | 4.8 | 4.3 | 7.2 | 12.1 | 9.6 | 11.0 | 13.8 | 11.7 | 11.0 | 11.7 | 11.9 | 12.0 | 10.4 | 10.6 |

Table 17. Total Energy Consumption, Projected vs. Actual (continued)

Projected vs. Actual

(percent difference)

| | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | |
|-------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| AEO 1994 | | 0.7 | 0.5 | -0.3 | -2.4 | -2.0 | -1.5 | -2.2 | -3.1 | 0.5 | 0.0 | 1.0 | -0.1 | 0.5 | 2.1 | 1.4 | 4.4 | 10.3 | 7.4 | | | | | | | | | |
| AEO 1995 | | 0.1 | -1.2 | -3.7 | -2.8 | -2.1 | -2.9 | -4.3 | -0.9 | -1.5 | -0.8 | -1.8 | -0.9 | 0.7 | -0.1 | 2.9 | 8.9 | 6.1 | | | | | | | | | | |
| AEO 1996 | | | -0.5 | -2.9 | -2.2 | -1.6 | -2.5 | -3.8 | -0.2 | -0.7 | 0.0 | -0.9 | 0.1 | 1.8 | 0.8 | 3.9 | 9.8 | 6.9 | 8.3 | 12.1 | 9.9 | 8.9 | 10.4 | | | | | |
| AEO 1997 | | | | -1.5 | -1.1 | 0.1 | -0.1 | -1.0 | 2.7 | 2.3 | 3.3 | 2.3 | 3.1 | 5.1 | 4.5 | 7.4 | 13.4 | 10.2 | 11.5 | 15.2 | 12.7 | 11.9 | 13.3 | | | | | |
| AEO 1998 | | | | | 0.1 | 1.8 | 2.0 | 1.0 | 5.3 | 4.9 | 5.6 | 4.3 | 5.5 | 7.7 | 7.2 | 10.7 | 17.5 | 14.6 | 16.2 | 20.2 | 17.6 | 16.6 | 18.3 | 18.8 | 19.2 | 15.8 | 17.4 | |
| AEO 1999 | | | | | | -0.4 | 0.3 | 0.4 | 4.9 | 4.5 | 5.0 | 3.4 | 4.4 | 6.4 | 5.8 | 9.3 | 16.1 | 13.2 | 14.8 | 18.8 | 16.5 | 16.0 | 18.1 | 18.9 | 19.6 | 16.5 | 18.3 | |
| AEO 2000 | | | | | | | -0.3 | -0.7 | 3.3 | 3.3 | 4.6 | 3.6 | 5.0 | 7.1 | 6.6 | 10.0 | 16.6 | 13.6 | 15.2 | 19.3 | 17.2 | 16.9 | 19.2 | 19.9 | 20.6 | 17.4 | 19.2 | |
| AEO 2001 | | | | | | | | -1.2 | 3.9 | 4.7 | 6.3 | 5.5 | 6.7 | 8.9 | 8.7 | 12.3 | 19.3 | 16.6 | 18.5 | 22.8 | 20.9 | 20.8 | 23.4 | 24.7 | 25.8 | 22.7 | 24.9 | |
| AEO 2002 | | | | | | | | | 2.2 | 3.5 | 6.2 | 5.7 | 7.3 | 9.7 | 9.4 | 13.1 | 20.5 | 18.1 | 20.8 | 25.6 | 23.8 | 23.7 | 26.4 | 27.9 | 29.1 | 26.2 | 28.7 | |
| AEO 2003 | | | | | | | | | | -0.1 | 2.0 | 1.5 | 2.9 | 5.5 | 5.9 | 10.1 | 17.6 | 15.7 | 18.4 | 23.4 | 21.7 | 21.9 | 24.6 | 26.1 | 27.5 | 24.8 | 27.6 | |
| AEO 2004 | | | | | | | | | | | 0.1 | 0.1 | 2.5 | 5.3 | 5.4 | 9.4 | 16.3 | 14.2 | 16.6 | 21.4 | 19.9 | 19.8 | 22.4 | 23.9 | 25.4 | 22.8 | 25.5 | |
| AEO 2005 | | | | | | | | | | | | -0.3 | 1.6 | 4.0 | 4.2 | 8.7 | 16.1 | 13.6 | 15.9 | 20.4 | 18.5 | 18.6 | 20.9 | 22.3 | 23.7 | 21.1 | 23.5 | |
| AEO 2006 | | | | | | | | | | | | | 0.2 | 1.7 | 2.0 | 5.7 | 12.5 | 10.1 | 12.1 | 16.5 | 14.5 | 14.3 | 16.7 | 18.1 | 19.2 | 16.5 | 18.6 | |
| AEO 2007 | | | | | | | | | | | | | | 1.1 | 1.1 | 4.5 | 11.2 | 8.7 | 10.6 | 14.8 | 12.8 | 12.6 | 14.8 | 16.0 | 16.8 | 14.0 | 16.1 | |
| AEO 2008 | | | | | | | | | | | | | | | 0.1 | 3.1 | 8.1 | 5.5 | 7.4 | 11.1 | 8.4 | 7.8 | 9.6 | 10.4 | 10.9 | 7.9 | 9.4 | |
| AEO 2009 | | | | | | | | | | | | | | | | 1.3 | 3.7 | 1.1 | 3.2 | 7.0 | 4.7 | 3.4 | 4.3 | 4.6 | 4.8 | 1.8 | 3.2 | |
| AEO 2010 | | | | | | | | | | | | | | | | | 1.1 | -1.4 | 1.2 | 5.4 | 3.1 | 2.5 | 3.8 | 4.3 | 4.8 | 1.9 | 3.5 | |
| AEO 2011 | | | | | | | | | | | | | | | | | | -0.2 | 0.9 | 4.7 | 3.3 | 2.3 | 4.2 | 4.8 | 5.1 | 2.1 | 3.5 | |
| AEO 2012 | | | | | | | | | | | | | | | | | | | 1.0 | 3.1 | -1.0 | -1.6 | -0.5 | -0.1 | -0.1 | -3.1 | -1.8 | |
| AEO 2013 | | | | | | | | | | | | | | | | | | | | 1.1 | -1.4 | -2.3 | -0.2 | 0.4 | 1.1 | -1.5 | 0.0 | |
| AEO 2014 | | | | | | | | | | | | | | | | | | | | | -1.1 | -2.2 | -0.2 | 0.6 | 1.3 | -1.5 | -0.3 | |
| AEO 2015 | | | | | | | | | | | | | | | | | | | | | 0.0 | 0.3 | 1.2 | 1.3 | -1.4 | 0.1 | | |
| AEO 2016 | | | | | | | | | | | | | | | | | | | | | | -0.8 | 0.0 | 1.0 | -1.7 | -0.1 | | |
| AEO 2017 | | | | | | | | | | | | | | | | | | | | | | | -1.1 | -0.4 | -2.5 | -0.8 | | |
| AEO 2018 | | | | | | | | | | | | | | | | | | | | | | | | -0.4 | -2.1 | -0.4 | | |
| AEO 2019 | | | | | | | | | | | | | | | | | | | | | | | | | | -1.0 | -0.1 | |
| AEO 2020 | | | | | | | | | | | | | | | | | | | | | | | | | | | -0.3 | |
| Average Absolute Percent Difference | | 0.7 | 0.3 | 0.7 | 2.6 | 1.6 | 1.3 | 1.5 | 1.9 | 2.7 | 2.5 | 3.2 | 2.5 | 3.1 | 4.8 | 4.2 | 7.3 | 12.9 | 9.8 | 11.3 | 14.6 | 12.1 | 11.2 | 12.0 | 12.2 | 12.3 | 10.3 | 10.6 |

Sources: Projections: *Annual Energy Outlook*, Reference Case Projections, Various Editions.

Historical Data: U.S. Energy Information Administration open data API (<http://www.eia.gov/opendata/>) (Washington, DC). Retrieved September 24, 2020. Series: TOTAL.TETCBUS.A. Shading indicates overestimation (blue) or underestimation (green).