

## Annual Energy Outlook Retrospective Review, 2018

Variable	Average absolute percent differences	Percent of projections overestimated
<b>Gross domestic product</b>		
Real gross domestic product (average cumulative growth) <sup>1</sup> (Table 2)	0.9	55.7
<b>Petroleum</b>		
Imported refiner acquisition cost of crude Oil (constant \$) (Table 3a)	41.5	25.1
Imported refiner acquisition cost of crude Oil (nominal \$) (Table 3b)	40.8	26.4
Total petroleum consumption (Table 4)	9.5	72.6
Crude oil production (Table 5)	14.3	38.8
Petroleum net imports (Table 6)	59.5	79.2
<b>Natural gas</b>		
Natural gas price, electric power sector (constant \$) <sup>2</sup> (Table 7a)	36.0	47.6
Natural gas price, electric power sector (nominal \$) <sup>2</sup> (Table 7b)	36.9	49.8
Total natural gas consumption (Table 8)	8.4	62.5
Natural gas production (Table 9)	8.6	48.9
Natural gas net imports (Table 10) <sup>3</sup>	292.4	73.6
<b>Coal</b>		
Coal prices to electric generating plants (constant \$) <sup>4</sup> (Table 11a)	20.0	35.8
Coal prices to electric generating plants (nominal \$) <sup>4</sup> (Table 11b)	19.9	39.1
Total coal consumption (Table 12)	19.6	75.6
Coal production (Table 13)	16.3	76.5
<b>Electricity</b>		
Average electricity prices (constant \$) (Table 14a)	10.4	28.3
Average electricity prices (nominal \$) (Table 14b)	11.2	34.2
Total electricity sales (Table 15)	6.2	64.2
<b>Total energy, carbon and intensity</b>		
Total energy consumption (Table 16)	8.2	82.1
Delivered residential energy consumption (Table 17)	6.6	73.6
Delivered commercial energy consumption (Table 18)	6.8	55.7
Delivered industrial energy consumption (Table 19)	11.6	83.4
Delivered transportation energy consumption (Table 20)	9.7	79.8
Total energy related carbon dioxide emissions (Table 21)	11.8	76.2
Energy intensity (energy consumption / real \$ GDP) (Table 22)	9.1	84.4

### AEO - Annual Energy Outlook

Source: These statistics summarize the calculations in Tables 2 through 22. The data in Tables 2 through 22 are based on the 1994 through 2018 AEO Reference case projections. Historical Data are from the U.S. Energy Information Administration open data API (<http://www.eia.gov/opa/data/>) (Washington, DC, July 2018), with the series listed under each appendix table, except for GDP data which are from the Bureau of Economic Analysis, U.S. Dept. of Commerce, September 2014, <http://www.bea.gov/national/xls/gdplev.xlsx>

1 The basis for GDP comparison is the projection differences in the cumulative average growth rate of real GDP from the first year shown for each AEO. The summary information for projection differences given for GDP growth rates is absolute percentage point differences; for all other AEO concepts, the comparison basis is absolute percent differences.

2 As of 2013, the wellhead price of natural gas was no longer reported by EIA. With the 2015 edition of the Retrospective, the natural gas price to the electric power sector replaced the wellhead price.

3 As natural gas net imports have approached zero, the average absolute percent difference has increased significantly.

4 Beginning in AEO2003, EIA electric generating projections incorporated combined heat and power (CHP) electricity generation in electricity generating plants. Before AEO2003, coal price projections reflected data collected, estimated, and reported to electric utilities and excluded CHP power generation.