

**UNITED STATES**  
**Table ET2. Total End-Use Energy Price and Expenditure Estimates, Selected Years, 1970-2017, United States**

| Year                              | Primary Energy |         |         |                          |                     |                  |                       |                             |                   |                    |         |                        |                               | Electricity Retail Sales | Total Energy <sup>g,h,i</sup> |
|-----------------------------------|----------------|---------|---------|--------------------------|---------------------|------------------|-----------------------|-----------------------------|-------------------|--------------------|---------|------------------------|-------------------------------|--------------------------|-------------------------------|
|                                   | Coal Coke      |         |         | Natural Gas <sup>a</sup> | Petroleum           |                  |                       |                             |                   |                    | Biomass | Total <sup>g,h,i</sup> |                               |                          |                               |
|                                   | Coal           | Exports | Imports |                          | Distillate Fuel Oil | HGL <sup>b</sup> | Jet Fuel <sup>c</sup> | Motor Gasoline <sup>d</sup> | Residual Fuel Oil | Other <sup>e</sup> | Total   |                        | Wood and Waste <sup>f,g</sup> |                          |                               |
| Prices in Dollars per Million Btu |                |         |         |                          |                     |                  |                       |                             |                   |                    |         |                        |                               |                          |                               |
| 1970                              | 0.48           | 1.27    | 0.93    | 0.68                     | 1.18                | R 1.45           | 0.73                  | 2.85                        | 0.44              | 1.39               | 1.82    | 1.35                   | 1.31                          | 4.98                     | 1.65                          |
| 1975                              | 1.51           | 2.37    | 3.47    | 1.28                     | 2.62                | R 3.02           | 2.05                  | 4.65                        | 1.86              | 2.94               | 3.50    | 1.55                   | 2.65                          | 8.61                     | 3.33                          |
| 1980                              | 1.87           | 2.54    | 3.19    | 3.05                     | 6.72                | R 5.78           | 6.36                  | 9.84                        | 3.60              | 7.04               | R 7.68  | 2.26                   | 5.84                          | 13.95                    | 6.89                          |
| 1985                              | 1.84           | 2.76    | 2.99    | 4.91                     | 7.24                | R 6.82           | 5.91                  | 9.01                        | 4.33              | 7.63               | R 7.78  | 2.51                   | R 6.50                        | 19.05                    | R 8.38                        |
| 1990                              | 1.63           | 3.53    | 3.80    | 4.17                     | 7.72                | R 7.00           | 5.68                  | 9.12                        | 3.07              | 6.53               | R 7.73  | 1.58                   | 6.19                          | 19.32                    | R 8.29                        |
| 1995                              | 1.58           | 2.71    | 3.43    | 4.20                     | 7.03                | R 6.67           | 4.00                  | R 9.24                      | 2.41              | 6.11               | R 7.44  | 1.47                   | R 5.96                        | 20.29                    | R 8.31                        |
| 1996                              | 1.57           | 2.20    | 3.87    | 4.62                     | 7.92                | R 8.18           | 4.82                  | R 9.86                      | 2.69              | 6.49               | R 8.18  | 1.38                   | R 6.54                        | 20.16                    | R 8.77                        |
| 1997                              | 1.58           | 2.64    | 3.25    | 4.96                     | 7.72                | R 7.57           | 4.53                  | R 9.83                      | 3.00              | R 6.42             | R 8.07  | 1.31                   | R 6.59                        | 20.13                    | R 8.83                        |
| 1998                              | 1.54           | 3.73    | 3.07    | 4.64                     | 6.64                | R 6.09           | 3.35                  | R 8.47                      | 2.21              | 5.39               | R 6.86  | 1.44                   | R 5.81                        | 19.80                    | R 8.22                        |
| 1999                              | 1.53           | 3.88    | 2.83    | 4.65                     | 7.25                | R 6.77           | 4.01                  | R 9.32                      | 2.62              | 6.04               | R 7.59  | 1.57                   | R 6.31                        | 19.52                    | R 8.58                        |
| 2000                              | 1.50           | 3.64    | 2.66    | 5.97                     | 9.94                | R 9.79           | 6.64                  | R 11.91                     | 4.48              | R 7.75             | R 10.09 | 1.83                   | R 8.29                        | 20.03                    | R 10.33                       |
| 2001                              | 1.59           | 3.27    | 3.04    | 7.49                     | 9.26                | R 9.77           | 5.72                  | R 11.36                     | 4.24              | 7.10               | R 9.60  | 2.27                   | R 8.48                        | 21.41                    | R 10.78                       |
| 2002                              | 1.69           | 3.25    | 3.04    | 5.97                     | 8.69                | R 8.30           | 5.33                  | R 10.71                     | 3.99              | 7.37               | R 9.05  | 2.33                   | R 7.71                        | 21.15                    | R 10.10                       |
| 2003                              | 1.67           | 3.88    | 3.49    | 7.65                     | 10.09               | R 10.57          | 6.46                  | R 12.36                     | 5.04              | 8.19               | R 10.56 | 2.06                   | R 9.17                        | 21.85                    | R 11.44                       |
| 2004                              | 1.92           | 3.28    | 7.23    | 8.64                     | 12.30               | R 12.56          | 8.93                  | R 14.72                     | 5.19              | 9.11               | R 12.60 | 2.34                   | R 10.86                       | 22.38                    | R 12.90                       |
| 2005                              | 2.46           | 3.39    | 8.92    | 10.64                    | 16.49               | R 14.95          | 12.86                 | R 17.98                     | 6.51              | 11.41              | R 15.90 | 3.30                   | R 13.69                       | 23.92                    | R 15.57                       |
| 2006                              | 2.71           | 3.19    | 6.31    | 10.92                    | 18.66               | R 17.32          | 14.80                 | R 20.40                     | 7.87              | 13.95              | R 18.21 | 3.27                   | R 15.40                       | 26.15                    | R 17.40                       |
| 2007                              | 2.81           | 3.66    | 7.84    | 10.40                    | 20.05               | R 19.31          | 16.01                 | R 22.34                     | 8.44              | 15.59              | R 19.89 | 3.37                   | R 16.37                       | 26.84                    | R 18.34                       |
| 2008                              | 3.39           | 4.33    | 18.76   | 11.68                    | 26.52               | R 23.92          | 22.56                 | R 26.09                     | 12.44             | R 20.09            | R 24.72 | 4.07                   | R 19.84                       | 28.62                    | R 21.53                       |
| 2009                              | 3.71           | 4.17    | 10.82   | 9.12                     | R 17.16             | R 16.76          | 12.61                 | R 18.97                     | 9.81              | 17.14              | R 17.43 | 3.75                   | R 14.41                       | 28.90                    | R 17.26                       |
| 2010                              | 3.92           | 6.74    | 13.37   | 8.54                     | R 21.05             | R 19.10          | 16.28                 | R 22.64                     | 11.67             | 21.27              | R 20.97 | R 3.86                 | R 16.46                       | 28.92                    | R 18.92                       |
| 2011                              | 4.53           | 8.75    | 15.71   | 8.21                     | R 27.08             | R 22.73          | 22.60                 | R 28.59                     | 15.37             | 26.31              | R 26.66 | R 4.19                 | R 20.06                       | 29.12                    | R 21.86                       |
| 2012                              | 4.59           | 8.65    | 13.64   | 7.28                     | R 27.99             | R 17.12          | 23.00                 | R 29.42                     | 16.97             | 26.16              | R 26.91 | R 4.00                 | R 20.04                       | 28.98                    | R 21.83                       |
| 2013                              | 4.10           | 8.91    | 8.55    | 7.57                     | R 27.64             | R 16.54          | 22.09                 | R 28.61                     | 16.16             | 26.55              | R 26.27 | R 4.21                 | R 19.42                       | 29.64                    | R 21.42                       |
| 2014                              | 3.75           | 9.94    | 4.73    | 8.33                     | R 26.76             | R 17.67          | 20.52                 | R 27.49                     | 14.58             | 26.25              | R 25.52 | R 4.63                 | R 19.06                       | 30.74                    | R 21.33                       |
| 2015                              | 3.54           | 9.28    | 5.90    | 7.14                     | R 18.64             | R 10.69          | 12.05                 | R 20.22                     | 8.92              | 20.17              | R 18.02 | R 3.86                 | R 14.08                       | 30.66                    | R 17.30                       |
| 2016                              | 3.18           | 8.75    | 5.78    | R 6.55                   | R 15.85             | R 10.15          | 9.74                  | R 18.04                     | 6.70              | 17.50              | R 15.75 | R 3.41                 | R 12.48                       | 30.26                    | R 15.94                       |
| 2017                              | 3.40           | 9.32    | 7.11    | 7.19                     | 18.29               | 12.73            | 12.04                 | 20.26                       | 8.83              | 18.64              | 17.95   | 3.53                   | 14.09                         | 30.88                    | 17.30                         |

  

| Expenditures in Million Dollars |       |     |       |          |           |          |        |         |        |          |           |         |             |         |             |
|---------------------------------|-------|-----|-------|----------|-----------|----------|--------|---------|--------|----------|-----------|---------|-------------|---------|-------------|
| 1970                            | 2,393 | 78  | 4     | 9,741    | 6,173     | 2,395    | 1,441  | 31,596  | 1,249  | 4,166    | 47,021    | 450     | 59,530      | 23,345  | 82,875      |
| 1975                            | 5,843 | 75  | 156   | 17,639   | 15,222    | R 5,224  | 4,150  | 59,446  | 4,532  | 8,491    | R 97,064  | 546     | R 121,174   | 50,680  | R 171,854   |
| 1980                            | 6,157 | 130 | 52    | 42,705   | 39,893    | R 10,929 | 13,856 | 124,408 | 11,127 | 26,035   | R 226,248 | 1,224   | R 276,255   | 98,095  | R 374,350   |
| 1985                            | 5,431 | 77  | 43    | 62,119   | 43,470    | R 13,755 | 14,747 | 118,048 | 7,262  | 22,263   | R 219,546 | 1,585   | R 289,111   | 149,233 | R 438,343   |
| 1990                            | 4,748 | 50  | 72    | 57,469   | 48,794    | R 13,845 | 17,784 | 126,558 | 4,879  | 21,408   | R 233,268 | 1,889   | R 297,961   | 176,691 | R 474,652   |
| 1995                            | 4,160 | 91  | 325   | 66,251   | 47,083    | 16,197   | 12,526 | 136,647 | 3,211  | R 19,978 | R 235,641 | 2,461   | R 308,747   | 205,876 | R 514,624   |
| 1996                            | 4,049 | 88  | 244   | 76,517   | 55,905    | 21,086   | 15,770 | 148,344 | 3,414  | R 21,607 | R 266,125 | 2,340   | R 349,187   | 211,005 | R 560,293   |
| 1997                            | 4,007 | 83  | 253   | 81,793   | 55,421    | 19,781   | 15,000 | 149,668 | 3,192  | R 22,896 | R 265,958 | 2,190   | R 354,118   | 213,843 | R 567,962   |
| 1998                            | 3,635 | 104 | 292   | 72,096   | 47,880    | 15,241   | 11,239 | 132,730 | 2,097  | R 20,634 | R 229,820 | 2,183   | R 307,921   | 218,361 | R 526,283   |
| 1999                            | 3,528 | 86  | 226   | 72,057   | 53,988    | 19,038   | 13,878 | 149,260 | 2,382  | R 23,544 | R 262,090 | 2,399   | R 340,214   | 218,413 | R 558,627   |
| 2000                            | 3,535 | 103 | 249   | 94,990   | 77,009    | 27,970   | 23,781 | 192,153 | 5,308  | R 26,374 | R 354,595 | 2,667   | R 456,133   | 231,577 | R 687,711   |
| 2001                            | 3,636 | 109 | 191   | 110,770  | 73,984    | 25,543   | 19,602 | 185,752 | 3,475  | R 24,862 | R 333,218 | 3,055   | R 450,759   | 245,483 | R 696,242   |
| 2002                            | 3,590 | 64  | 244   | 90,697   | 68,559    | 22,980   | 17,802 | 179,796 | 3,657  | R 25,729 | R 318,523 | 3,376   | R 416,366   | 247,598 | R 663,964   |
| 2003                            | 3,570 | 70  | 239   | 115,983  | 82,514    | R 28,168 | 21,096 | 209,493 | 4,441  | R 28,707 | R 374,419 | 2,938   | R 497,078   | 257,992 | R 755,070   |
| 2004                            | 4,154 | 107 | 1,232 | 129,410  | 104,845   | 34,408   | 30,219 | 254,873 | 5,693  | 35,277   | R 465,315 | 3,074   | R 603,077   | 268,133 | R 871,210   |
| 2005                            | 5,060 | 147 | 780   | 150,548  | 142,282   | 38,874   | 44,679 | 312,047 | 7,942  | R 42,912 | R 588,736 | 4,965   | R 749,943   | 295,787 | R 1,045,730 |
| 2006                            | 5,371 | 128 | 636   | 146,374  | 163,345   | 45,355   | 50,007 | 357,286 | 9,504  | R 52,054 | R 677,552 | 5,053   | R 834,858   | 323,962 | R 1,158,821 |
| 2007                            | 5,447 | 131 | 478   | 146,962  | 175,783   | 51,081   | 53,754 | 389,282 | 10,566 | R 54,667 | R 892,944 | 5,054   | R 892,944   | 340,925 | R 1,233,869 |
| 2008                            | 6,352 | 210 | 1,676 | 168,530  | 219,381   | R 59,610 | 72,046 | 438,237 | 14,709 | R 62,029 | R 866,011 | 5,947   | R 1,048,305 | 360,454 | R 1,408,759 |
| 2009                            | 5,447 | 135 | 93    | 125,401  | 130,174   | 43,052   | 36,354 | 317,082 | 9,658  | R 44,411 | R 580,731 | R 4,321 | R 715,858   | 350,435 | R 1,066,293 |
| 2010                            | 6,648 | 245 | 403   | 122,312  | R 166,859 | R 54,920 | 48,243 | 376,491 | 12,461 | R 54,345 | 713,318   | R 5,686 | R 848,122   | 365,913 | R 1,214,034 |
| 2011                            | 7,377 | 210 | 552   | 118,510  | 220,538   | R 63,516 | 66,680 | 462,435 | 14,755 | R 63,170 | R 891,094 | R 6,364 | R 1,023,686 | 368,009 | R 1,391,696 |
| 2012                            | 7,150 | 209 | 384   | 100,466  | 219,526   | R 49,412 | 66,736 | 473,216 | 13,041 | R 58,355 | R 880,285 | R 6,086 | R 994,161   | 360,863 | R 1,355,024 |
| 2013                            | 6,509 | 186 | 29    | 114,638  | 220,922   | R 52,272 | 65,564 | 467,328 | 10,524 | R 59,590 | R 876,201 | R 6,874 | R 1,004,066 | 372,068 | R 1,376,134 |
| 2014                            | 5,879 | 233 | 9     | 131,984  | 225,011   | R 54,022 | 62,421 | 452,821 | 7,188  | R 58,354 | R 859,817 | R 7,590 | R 1,005,046 | 389,872 | R 1,394,918 |
| 2015                            | 4,993 | 197 | 20    | 107,674  | 155,237   | R 34,329 | 38,596 | 342,578 | 4,448  | R 45,848 | R 621,036 | R 6,193 | R 739,718   | 388,344 | R 1,128,062 |
| 2016                            | 3,907 | 217 | 33    | R 97,544 | 128,551   | R 32,168 | 32,639 | 310,961 | 4,544  | R 39,101 | R 547,962 | R 5,324 | R 654,554   | 383,567 | R 1,038,120 |
| 2017                            | 4,134 | 280 | 10    | 109,606  | 150,118   | 41,631   | 41,904 | 348,456 | 6,330  | 41,664   | 630,104   | 5,699   | 749,274     | 387,222 | 1,136,496   |

<sup>a</sup> Natural gas as it is consumed; includes supplemental gaseous fuels that are commingled with natural gas.  
<sup>b</sup> Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.  
<sup>c</sup> Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other Petroleum."  
<sup>d</sup> Beginning in 1993, includes fuel ethanol blended into motor gasoline.  
<sup>e</sup> Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category.  
<sup>f</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.  
<sup>g</sup> There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass

waste beginning in 1989.  
<sup>h</sup> There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.  
<sup>i</sup> For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.  
Where shown, R = Revised data.  
Notes: Price estimates are weighted averages of price estimates, and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. Expenditure totals may not equal sum of components due to independent rounding.  
Web Page: All data are available at <https://www.eia.gov/state/seds/seds-data-complete.php>.  
Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.