

**Table ET1. Primary Energy, Electricity, and Total Energy Price and Expenditure Estimates, Selected Years, 1970-2021, Pennsylvania**

| Year                              | Primary Energy |            |         |                          |                                  |                  |                       |                             |                   |                    |            |              |         | Electric Power Sector <sup>i,k,l</sup> | Electricity <sup>m</sup> | Total Energy <sup>h,i,j</sup> |                          |
|-----------------------------------|----------------|------------|---------|--------------------------|----------------------------------|------------------|-----------------------|-----------------------------|-------------------|--------------------|------------|--------------|---------|--|--------------------------|-------------------------------|--------------------------|
|                                   | Coal           |            |         | Natural Gas <sup>a</sup> | Petroleum                        |                  |                       |                             |                   |                    |            | Nuclear Fuel | Biomass |  |                          |                               | Total <sup>h,i,j,k</sup> |
|                                   | Coking Coal    | Steam Coal | Total   |                          | Distillate Fuel Oil <sup>b</sup> | HGL <sup>c</sup> | Jet Fuel <sup>d</sup> | Motor Gasoline <sup>e</sup> | Residual Fuel Oil | Other <sup>f</sup> | Total      |              |         |  |                          |                               |                          |
| Prices in Dollars per Million Btu |                |            |         |                          |                                  |                  |                       |                             |                   |                    |            |              |         |  |                          |                               |                          |
| 1970                              | 0.44           | 0.35       | 0.39    | 0.87                     | 1.17                             | 1.78             | 0.72                  | 2.92                        | 0.47              | 2.01               | 1.73       | 0.21         | 0.96    | 0.97                                   | 0.34                     | 5.23                          | 1.47                     |
| 1975                              | 1.52           | 1.02       | 1.20    | 1.53                     | 2.65                             | 3.40             | 2.01                  | 4.72                        | 2.02              | 3.51               | 3.47       | 0.25         | 1.19    | 2.02                                   | 0.93                     | 10.37                         | 3.25                     |
| 1980                              | 2.20           | 1.34       | 1.58    | 3.37                     | 6.70                             | 6.22             | 6.27                  | 9.71                        | 4.30              | 8.14               | 7.73       | 0.42         | 1.84    | 4.00                                   | 1.55                     | 15.17                         | 6.37                     |
| 1985                              | 1.88           | 1.57       | 1.63    | 5.74                     | 7.68                             | 10.32            | 5.84                  | 9.01                        | 4.38              | 9.30               | 8.08       | 0.92         | 1.95    | 4.44                                   | 1.61                     | 21.24                         | 8.40                     |
| 1990                              | 1.71           | 1.52       | 1.56    | 5.28                     | 7.66                             | 11.90            | 5.59                  | 9.35                        | 3.20              | 7.94               | 8.02       | 0.83         | 1.75    | 4.03                                   | 1.35                     | 22.43                         | 8.56                     |
| 1995                              | 1.72           | 1.36       | 1.43    | 5.35                     | 6.83                             | 11.25            | 3.87                  | 9.73                        | 2.63              | 8.16               | 7.96       | 0.56         | 1.28    | 3.86                                   | 1.09                     | 23.25                         | 8.79                     |
| 2000                              | 1.66           | 1.17       | 1.23    | 6.81                     | 10.17                            | 14.90            | 6.81                  | 12.12                       | 3.64              | 10.66              | 10.58      | 0.48         | 1.34    | 4.82                                   | 1.00                     | 22.43                         | 10.70                    |
| 2005                              | 3.01           | 1.62       | 1.79    | 12.19                    | 16.38                            | 20.07            | 12.64                 | 18.23                       | 6.84              | 13.11              | 16.24      | 0.37         | 3.02    | 7.69                                   | 1.61                     | 24.33                         | 15.66                    |
| 2006                              | 3.33           | 1.75       | 1.94    | 12.89                    | 18.63                            | 22.39            | 14.56                 | 20.91                       | 7.87              | 16.68              | 19.07      | 0.40         | 3.09    | 8.59                                   | 1.56                     | 25.50                         | 17.57                    |
| 2007                              | 3.49           | 1.79       | 1.98    | 11.45                    | 20.00                            | 25.34            | 15.79                 | 22.70                       | 8.08              | 19.04              | 20.79      | 0.44         | 3.28    | 8.89                                   | 1.73                     | 26.69                         | 18.34                    |
| 2008                              | 4.41           | 2.14       | 2.41    | 13.09                    | 26.23                            | 30.24            | 23.07                 | 26.65                       | 12.19             | 22.02              | 25.77      | 0.47         | 3.85    | 10.92                                  | 2.10                     | 27.44                         | 21.41                    |
| 2009                              | 5.18           | 2.33       | 2.56    | 9.75                     | 18.01                            | 25.61            | 12.59                 | 19.61                       | 8.49              | 22.77              | 18.97      | 0.57         | 3.42    | 8.35                                   | 1.89                     | 28.25                         | 18.13                    |
| 2010                              | 5.47           | 2.44       | 2.75    | 8.73                     | 21.52                            | 28.93            | 16.10                 | 23.21                       | 12.02             | 22.53              | 22.41      | 0.65         | 3.77    | 9.08                                   | 2.12                     | 30.29                         | 19.61                    |
| 2011                              | 6.60           | 2.60       | 3.04    | 8.51                     | 27.45                            | 33.89            | 22.71                 | 29.48                       | 17.16             | 26.66              | 28.43      | 0.69         | 3.99    | 10.94                                  | 2.23                     | 30.73                         | 22.72                    |
| 2012                              | 6.32           | 2.49       | 3.00    | 7.09                     | 29.00                            | 38.31            | 23.18                 | 30.58                       | 17.37             | 27.12              | 29.27      | 0.75         | 3.88    | 10.95                                  | 1.97                     | 29.12                         | 22.76                    |
| 2013                              | 5.47           | 2.51       | 2.98    | 7.63                     | 28.20                            | 29.18            | 22.10                 | 29.70                       | 16.58             | 27.11              | 28.52      | 0.82         | 4.00    | 10.75                                  | 2.16                     | 28.82                         | 21.53                    |
| 2014                              | 4.47           | 2.55       | 2.89    | 8.19                     | 27.53                            | 30.91            | 20.90                 | 28.73                       | 16.07             | 26.40              | 27.76      | 0.78         | 4.41    | 10.88                                  | 2.36                     | 30.20                         | 21.29                    |
| 2015                              | 3.92           | 2.34       | 2.65    | 6.38                     | 19.55                            | R 21.13          | 11.99                 | 20.81                       | 8.52              | 22.59              | 19.98      | 0.71         | 3.81    | 8.25                                   | 1.70                     | 30.33                         | 17.74                    |
| 2016                              | 3.49           | 1.96       | 2.23    | 5.26                     | 16.47                            | R 19.79          | 9.49                  | 18.81                       | 6.60              | 19.09              | 17.56      | 0.68         | 3.27    | 7.15                                   | 1.39                     | 29.96                         | 16.63                    |
| 2017                              | 3.83           | 1.93       | 2.35    | 6.09                     | 19.05                            | R 24.31          | 12.04                 | 21.48                       | 8.69              | 19.82              | 20.14      | 0.74         | 3.34    | 8.27                                   | 1.59                     | 29.79                         | 17.94                    |
| 2018                              | 4.11           | 2.13       | 2.63    | 6.55                     | 22.00                            | R 26.28          | 15.86                 | 23.52                       | 10.62             | R 23.56            | 22.64      | 0.73         | R 3.67  | 9.22                                   | 1.81                     | 29.70                         | 18.96                    |
| 2019                              | 4.63           | 1.93       | 2.68    | 5.85                     | 21.53                            | R 20.99          | 14.64                 | 22.19                       | 10.15             | R 23.63            | R 21.47    | 0.68         | R 3.72  | R 8.66                                 | 1.54                     | 28.84                         | 18.32                    |
| 2020                              | 3.96           | 1.80       | 2.41    | 4.75                     | 18.41                            | R 18.13          | 8.97                  | 19.17                       | 7.68              | R 23.00            | R 18.60    | 0.64         | R 2.97  | 7.22                                   | 1.24                     | 28.46                         | R 17.08                  |
| 2021                              | 3.70           | 2.91       | 3.16    | 5.98                     | 22.25                            | 28.51            | 14.28                 | 25.62                       | 11.36             | 25.28              | 24.04      | 0.63         | 3.68    | 9.35                                   | 2.18                     | 29.26                         | 19.49                    |
| Expenditures in Million Dollars   |                |            |         |                          |                                  |                  |                       |                             |                   |                    |            |              |         |  |                          |                               |                          |
| 1970                              | 317.5          | 339.6      | 657.1   | 653.4                    | 429.1                            | 31.5             | 36.9                  | 1,559.6                     | 157.4             | 221.2              | 2,435.7    | 1.1          | 10.9    | 3,758.2                                | -296.5                   | 1,329.8                       | 4,791.6                  |
| 1975                              | 913.7          | 1,063.9    | 1,977.6 | 964.8                    | 1,039.9                          | 75.7             | 97.3                  | 2,695.2                     | 441.3             | 342.6              | 4,691.9    | 44.3         | 14.4    | 7,692.9                                | -1,047.7                 | 3,060.5                       | 9,705.8                  |
| 1980                              | 1,005.0        | 1,574.0    | 2,579.0 | 2,489.5                  | 2,665.1                          | 162.7            | 360.1                 | 5,507.0                     | 798.1             | 803.8              | 10,296.9   | 55.4         | 52.2    | 15,472.9                               | -1,997.2                 | 5,096.8                       | 18,572.5                 |
| 1985                              | 492.9          | 1,804.1    | 2,297.0 | 3,444.8                  | 2,583.3                          | 276.2            | 334.6                 | 4,827.1                     | 483.8             | 897.7              | 9,402.8    | 257.5        | 57.2    | 15,459.3                               | -2,228.4                 | 7,202.9                       | 20,433.8                 |
| 1990                              | 480.0          | 1,812.2    | 2,292.2 | 3,325.7                  | 2,660.7                          | 263.8            | 380.7                 | 5,277.2                     | 360.8             | 850.3              | 9,793.6    | 506.8        | 65.6    | 15,983.9                               | -2,369.5                 | 8,722.9                       | 22,337.3                 |
| 1995                              | 500.7          | 1,623.8    | 2,124.5 | 3,793.5                  | 2,446.3                          | 227.6            | 269.9                 | 5,685.0                     | 212.9             | 910.9              | 9,752.6    | 387.6        | 86.1    | 16,144.8                               | -2,044.5                 | 9,923.4                       | 24,023.6                 |
| 2000                              | 319.8          | 1,534.1    | 1,853.9 | 4,529.2                  | 4,052.0                          | 393.8            | 734.5                 | 7,441.1                     | 261.0             | 1,137.9            | 14,020.3   | 371.0        | 83.4    | 20,857.7                               | -2,068.0                 | 10,158.8                      | 28,948.6                 |
| 2005                              | 549.4          | 2,124.3    | 2,673.7 | 8,051.5                  | 6,824.6                          | 844.8            | 1,205.6               | 11,715.4                    | 583.5             | 1,445.1            | 22,619.0   | 298.5        | 163.7   | 33,808.2                               | -3,519.9                 | 12,118.5                      | 42,406.8                 |
| 2006                              | 589.6          | 2,314.4    | 2,904.1 | 8,134.5                  | 7,702.6                          | 1,032.9          | 1,359.5               | 13,301.2                    | 334.6             | 1,724.1            | 25,454.9   | 316.0        | 165.4   | 36,976.8                               | -3,387.8                 | 12,560.4                      | 46,149.4                 |
| 2007                              | 606.4          | 2,353.2    | 2,959.6 | 8,284.3                  | 8,123.6                          | 1,204.2          | 1,387.6               | 14,469.5                    | 325.5             | 1,757.7            | 27,268.1   | 356.5        | 181.4   | 39,059.8                               | -3,879.6                 | 13,618.7                      | 48,798.9                 |
| 2008                              | 743.9          | 2,677.3    | 3,421.1 | 9,383.5                  | 11,623.2                         | 1,693.8          | 1,888.5               | 16,418.4                    | 416.3             | 1,818.1            | 33,858.2   | 382.3        | 227.0   | 47,327.6                               | -4,622.3                 | 13,880.5                      | 56,585.9                 |
| 2009                              | 510.1          | 2,622.5    | 3,132.6 | 7,444.7                  | 6,070.3                          | 1,413.4          | 890.3                 | 12,185.8                    | 219.0             | 1,729.5            | 22,508.2   | 457.6        | 208.7   | 33,777.3                               | -4,044.6                 | 13,643.6                      | 43,376.3                 |
| 2010                              | 738.0          | 2,869.2    | 3,607.2 | 7,209.8                  | 7,650.8                          | 1,658.6          | 1,120.2               | 14,424.0                    | 146.0             | 1,547.0            | 26,546.6   | 528.1        | 256.6   | 38,183.2                               | -4,717.7                 | 15,222.4                      | 48,687.8                 |
| 2011                              | 875.5          | 2,809.9    | 3,685.4 | 7,437.4                  | 9,956.7                          | 1,985.5          | 1,556.3               | 17,871.8                    | 151.6             | 1,622.9            | 33,144.8   | 549.2        | 296.9   | 45,139.9                               | -4,862.2                 | 15,382.9                      | 55,660.6                 |
| 2012                              | 927.2          | 2,355.4    | 3,282.6 | 6,576.7                  | 10,352.8                         | 1,273.3          | 1,574.0               | 18,359.0                    | 166.3             | 1,542.1            | 33,267.5   | 594.4        | 276.3   | 44,041.6                               | -4,215.3                 | 14,218.8                      | 54,045.0                 |
| 2013                              | 976.9          | 2,381.7    | 3,358.6 | 7,570.5                  | 10,344.1                         | 1,383.7          | 1,547.2               | 17,947.3                    | 129.1             | 1,646.8            | 32,998.4   | 672.7        | 330.5   | 44,975.5                               | -4,617.7                 | 14,242.2                      | 54,600.0                 |
| 2014                              | 826.9          | 2,179.5    | 3,006.4 | 8,819.4                  | 10,870.5                         | 1,539.1          | 1,450.1               | 17,071.2                    | 89.4              | 1,859.6            | 32,879.8   | 639.3        | 343.0   | R 45,714.2                             | -4,897.7                 | 14,984.4                      | 55,800.9                 |
| 2015                              | 674.7          | 1,650.9    | 2,325.6 | 6,841.7                  | 7,368.9                          | R 993.2          | 830.7                 | 12,318.2                    | 21.9              | 1,684.9            | R 23,217.8 | 601.7        | 311.3   | R 33,318.5                             | -3,410.7                 | 14,979.7                      | R 44,887.5               |
| 2016                              | 456.5          | 1,184.0    | 1,640.5 | 5,786.0                  | 5,381.6                          | R 919.1          | 667.6                 | 11,211.1                    | 23.4              | 1,366.3            | R 19,569.0 | 588.2        | 258.7   | R 27,851.8                             | -2,763.3                 | 14,702.2                      | R 39,790.6               |
| 2017                              | 574.0          | 1,001.8    | 1,575.8 | 6,942.5                  | 6,332.9                          | R 1,125.4        | 874.4                 | 12,899.2                    | 15.6              | R 1,417.0          | R 22,664.5 | 647.7        | 264.3   | R 32,095.9                             | -3,094.4                 | 14,376.2                      | R 43,377.7               |
| 2018                              | 666.8          | 1,024.9    | 1,691.7 | 7,979.5                  | 8,102.9                          | R 1,332.1        | R 1,183.2             | 13,727.4                    | 19.3              | R 1,557.3          | R 25,922.3 | 635.1        | R 295.8 | R 36,526.5                             | -3,502.3                 | 14,937.3                      | R 47,961.5               |
| 2019                              | 733.2          | 793.6      | 1,526.8 | 7,914.0                  | 7,475.4                          | R 1,106.6        | R 1,139.2             | 13,001.5                    | 23.2              | R 1,574.7          | R 24,320.7 | 588.4        | R 275.6 | R 34,625.5                             | -3,059.7                 | 14,203.0                      | R 45,768.8               |
| 2020                              | 418.6          | 484.5      | 903.1   | R 6,919.8                | 5,704.5                          | R 881.3          | R 404.8               | 9,586.0                     | 10.7              | R 1,296.9          | R 17,884.2 | 513.3        | R 205.8 | R 26,426.1                             | R -2,406.0               | 13,516.5                      | R 37,536.6               |
| 2021                              | 565.7          | 965.7      | 1,531.3 | 9,070.8                  | 7,583.8                          | 1,427.3          | 752.5                 | 13,888.7                    | 22.7              | 1,550.6            | 25,225.5   | 502.1        | 243.7   | 36,573.4                               | -4,400.6                 | 14,250.4                      | 46,423.2                 |

<sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.  
<sup>b</sup> Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Beginning in 2021, includes biodiesel and renewable diesel product supplied.  
<sup>c</sup> Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.  
<sup>d</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>e</sup> Beginning in 1993, includes fuel ethanol blended into motor gasoline.  
<sup>f</sup> Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.  
<sup>g</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.  
<sup>h</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>i</sup> There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.  
<sup>j</sup> For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.  
<sup>k</sup> Electricity imports are included in total primary energy and electric power sector but are not shown separately.  
<sup>l</sup> Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double-counting.  
<sup>m</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Where shown, R = Revised data and (s) = Value less than 0.05 million dollars. Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the Technical Notes.  
Note: 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>.  
Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. <http://www.eia.gov/state/seds/>