

**Table 2.4 Industrial Sector Energy Consumption**  
(Trillion Btu)

|                           | Primary Consumption <sup>a</sup> |                             |                             |                    |  |                 |                    |            |              |              |                  | Elec-<br>tricity<br>Retail<br>Sales <sup>i</sup> | Electrical<br>System<br>Energy<br>Losses <sup>j</sup> | Total <sup>k</sup> |
|---------------------------|----------------------------------|-----------------------------|-----------------------------|--------------------|--|-----------------|--------------------|------------|--------------|--------------|------------------|--|---|--------------------|
|                           | Fossil Fuels <sup>b</sup>        |                             |                             |                    | Renewable Energy <sup>c</sup>            |                 |                    |            |              |              |                  |  |   |                    |
|                           | Coal                             | Natural<br>Gas <sup>d</sup> | Petro-<br>leum <sup>e</sup> | Total <sup>f</sup> | Hydro-<br>electric<br>Power <sup>g</sup> | Geo-<br>thermal | Solar <sup>h</sup> | Wind       | Bio-<br>mass | Total        | Total<br>Primary |  |   |                    |
| <b>1950 Total</b> .....   | 5,781                            | 3,546                       | 3,960                       | 13,288             | 69                                       | NA              | NA                 | NA         | 532          | 602          | 13,890           | 500  | 1,852   | 16,241             |
| <b>1955 Total</b> .....   | 5,620                            | 4,701                       | 5,123                       | 15,434             | 38                                       | NA              | NA                 | NA         | 631          | 669          | 16,103           | 887  | 2,495   | 19,485             |
| <b>1960 Total</b> .....   | 4,543                            | 5,973                       | 5,766                       | 16,277             | 39                                       | NA              | NA                 | NA         | 680          | 719          | 16,996           | 1,107  | 2,739   | 20,842             |
| <b>1965 Total</b> .....   | 5,127                            | 7,339                       | 6,813                       | 19,260             | 33                                       | NA              | NA                 | NA         | 855          | 888          | 20,148           | 1,463  | 3,487   | 25,098             |
| <b>1970 Total</b> .....   | 4,656                            | 9,536                       | 7,776                       | 21,911             | 34                                       | NA              | NA                 | NA         | 1,019        | 1,053        | 22,964           | 1,948  | 4,716   | 29,628             |
| <b>1975 Total</b> .....   | 3,667                            | 8,532                       | 8,127                       | 20,339             | 32                                       | NA              | NA                 | NA         | 1,063        | 1,096        | 21,434           | 2,346  | 5,632   | 29,413             |
| <b>1980 Total</b> .....   | 3,155                            | 8,333                       | 9,509                       | 20,962             | 33                                       | NA              | NA                 | NA         | 1,600        | 1,633        | 22,595           | 2,781  | 6,664   | 32,039             |
| <b>1985 Total</b> .....   | 2,760                            | 7,032                       | 7,714                       | 17,492             | 33                                       | NA              | NA                 | NA         | 1,918        | 1,951        | 19,443           | 2,855  | 6,518   | 28,816             |
| <b>1990 Total</b> .....   | 2,756                            | 8,451                       | 8,251                       | 19,463             | 31                                       | 2               | (s)                | -          | 1,684        | 1,717        | 21,180           | 3,226  | 7,404   | 31,810             |
| <b>1995 Total</b> .....   | 2,488                            | 9,592                       | 8,585                       | 20,726             | 55                                       | 3               | (s)                | -          | 1,934        | 1,992        | 22,718           | 3,455  | 7,796   | 33,970             |
| <b>2000 Total</b> .....   | 2,256                            | 9,500                       | 9,073                       | 20,895             | 42                                       | 4               | (s)                | -          | 1,881        | 1,928        | 22,823           | 3,631  | 8,208   | 34,662             |
| <b>2001 Total</b> .....   | 2,192                            | 8,676                       | 9,177                       | 20,074             | 33                                       | 5               | (s)                | -          | 1,681        | 1,719        | 21,793           | 3,400  | 7,526   | 32,719             |
| <b>2002 Total</b> .....   | 2,019                            | 8,832                       | 9,167                       | 20,078             | 39                                       | 5               | (s)                | -          | 1,676        | 1,720        | 21,798           | 3,379  | 7,484   | 32,661             |
| <b>2003 Total</b> .....   | 2,041                            | 8,488                       | 9,229                       | 19,809             | 43                                       | 3               | (s)                | -          | 1,678        | 1,725        | 21,534           | 3,454  | 7,565   | 32,553             |
| <b>2004 Total</b> .....   | 2,047                            | 8,550                       | 9,825                       | 20,560             | 33                                       | 4               | (s)                | -          | 1,815        | 1,852        | 22,411           | 3,473  | 7,631   | 33,516             |
| <b>2005 Total</b> .....   | 1,954                            | 7,907                       | 9,634                       | 19,540             | 32                                       | 4               | (s)                | -          | 1,834        | 1,871        | 21,410           | 3,477  | 7,554   | 32,442             |
| <b>2006 Total</b> .....   | 1,914                            | 7,861                       | 9,767                       | 19,603             | 29                                       | 4               | 1                  | -          | 1,892        | 1,926        | 21,529           | 3,451  | 7,411   | 32,391             |
| <b>2007 Total</b> .....   | 1,865                            | 8,074                       | 9,442                       | 19,405             | 16                                       | 5               | 1                  | -          | 1,937        | 1,958        | 21,363           | 3,507  | 7,515   | 32,385             |
| <b>2008 Total</b> .....   | 1,793                            | 8,083                       | 8,576                       | 18,493             | 17                                       | 5               | 1                  | -          | 2,012        | 2,035        | 20,528           | 3,444  | 7,362   | 31,334             |
| <b>2009 Total</b> .....   | 1,392                            | 7,609                       | 7,806                       | 16,784             | 18                                       | 4               | 2                  | -          | 1,948        | 1,972        | 18,756           | 3,130  | 6,580   | 28,466             |
| <b>2010 Total</b> .....   | 1,631                            | 8,278                       | 8,166                       | 18,070             | 16                                       | 4               | 3                  | -          | 2,320        | 2,343        | 20,413           | 3,314  | 6,934   | 30,661             |
| <b>2011 Total</b> .....   | 1,561                            | 8,481                       | 8,135                       | 18,187             | 17                                       | 4               | 4                  | (s)        | 2,375        | 2,401        | 20,588           | 3,382  | 7,005   | 30,975             |
| <b>2012 Total</b> .....   | 1,513                            | 8,819                       | 8,143                       | 18,479             | 22                                       | 4               | 7                  | (s)        | 2,349        | 2,382        | 20,861           | 3,363  | 6,810   | 31,034             |
| <b>2013 Total</b> .....   | 1,546                            | 9,140                       | 8,326                       | 18,995             | 33                                       | 4               | 9                  | (s)        | 2,403        | 2,449        | 21,444           | 3,362  | 6,785   | 31,591             |
| <b>2014 Total</b> .....   | 1,530                            | 9,441                       | 8,138                       | 19,088             | 12                                       | 4               | 11                 | 1          | 2,456        | 2,484        | 21,572           | 3,404  | 6,832   | 31,808             |
| <b>2015 January</b> ..... | 128                              | 882                         | 731                         | 1,739              | 1  | (s)             | 1                  | (s)        | 213          | 215          | 1,954            | 272  | 539   | 2,765              |
| <b>February</b> .....     | 119                              | 809                         | 656                         | 1,583              | 1  | (s)             | 1                  | (s)        | 191          | 193          | 1,776            | 262  | 515   | 2,552              |
| <b>March</b> .....        | 121                              | 824                         | 693                         | 1,637              | 1  | (s)             | 1                  | (s)        | 205          | 207          | 1,845            | 272  | 512   | 2,628              |
| <b>April</b> .....        | 110                              | 766                         | 673                         | 1,547              | 1  | (s)             | 1                  | (s)        | 200          | 203          | 1,750            | 275  | 521   | 2,546              |
| <b>May</b> .....          | 114                              | 763                         | 696                         | 1,570              | 1  | (s)             | 1                  | (s)        | 207          | 210          | 1,779            | 283  | 581   | 2,643              |
| <b>June</b> .....         | 116                              | 729                         | 717                         | 1,559              | 1  | (s)             | 1                  | (s)        | 203          | 206          | 1,765            | 294  | 599   | 2,659              |
| <b>July</b> .....         | 117                              | 752                         | 747                         | 1,615              | 1  | (s)             | 1                  | (s)        | 210          | 213          | 1,828            | 299  | 605   | 2,732              |
| <b>August</b> .....       | 115                              | 760                         | 729                         | 1,602              | 1  | (s)             | 1                  | (s)        | 209          | 212          | 1,814            | 302  | 591   | 2,706              |
| <b>September</b> .....    | 109                              | 735                         | 673                         | 1,517              | 1  | (s)             | 1                  | (s)        | 200          | 203          | 1,719            | 289  | 538   | 2,547              |
| <b>October</b> .....      | 112                              | 774                         | 655                         | 1,540              | 1  | (s)             | 1                  | (s)        | 204          | 207          | 1,747            | 284  | 528   | 2,558              |
| <b>November</b> .....     | 110                              | 795                         | 619                         | 1,521              | 1  | (s)             | 1                  | (s)        | 205          | 207          | 1,728            | 268  | 526   | 2,523              |
| <b>December</b> .....     | 109                              | 837                         | 674                         | 1,619              | 1  | (s)             | 1                  | (s)        | 213          | 215          | 1,835            | 267  | 520   | 2,622              |
| <b>Total</b> .....        | <b>1,380</b>                     | <b>9,426</b>                | <b>8,262</b>                | <b>19,049</b>      | <b>13</b>                                | <b>4</b>        | <b>14</b>          | <b>(s)</b> | <b>2,460</b> | <b>2,491</b> | <b>21,541</b>    | <b>3,366</b>                                     | <b>6,578</b>  | <b>31,485</b>      |
| <b>2016 January</b> ..... | 102                              | 887                         | 729                         | 1,717              | 1  | (s)             | 1                  | (s)        | 209          | 212          | 1,929            | 269  | 533   | 2,732              |
| <b>February</b> .....     | 103                              | 819                         | 717                         | 1,639              | 1  | (s)             | 1                  | (s)        | 197          | 200          | 1,838            | 262  | 485   | 2,585              |
| <b>March</b> .....        | 105                              | 827                         | 707                         | 1,639              | 1  | (s)             | 2                  | (s)        | 206          | 210          | 1,848            | 270  | 504   | 2,622              |
| <b>April</b> .....        | 97                               | 778                         | 651                         | 1,525              | 1  | (s)             | 2                  | (s)        | 193          | 196          | 1,722            | 268  | 515   | 2,505              |
| <b>May</b> .....          | 99                               | 774                         | 650                         | 1,522              | 1  | (s)             | 2                  | (s)        | 204          | 207          | 1,729            | 278  | 557   | 2,564              |
| <b>June</b> .....         | 100                              | 745                         | 663                         | 1,507              | 1  | (s)             | 2                  | (s)        | 202          | 205          | 1,712            | 285  | 578   | 2,575              |
| <b>July</b> .....         | 101                              | 777                         | 665                         | 1,541              | 1  | (s)             | 2                  | (s)        | 208          | 211          | 1,753            | 297  | 599   | 2,649              |
| <b>August</b> .....       | 99                               | 788                         | 746                         | 1,631              | 1  | (s)             | 2                  | (s)        | 209          | 213          | 1,843            | 304  | 583   | 2,730              |
| <b>September</b> .....    | 98                               | 758                         | 686                         | 1,539              | 1  | (s)             | 2                  | (s)        | 197          | 200          | 1,739            | 284  | 518   | 2,541              |
| <b>October</b> .....      | 99                               | 780                         | 726                         | 1,603              | 1  | (s)             | 2                  | (s)        | 204          | 207          | 1,810            | 278  | 521   | 2,609              |
| <b>November</b> .....     | 99                               | 810                         | 695                         | 1,599              | 1  | (s)             | 1                  | (s)        | 206          | 208          | 1,807            | 268  | 512   | 2,586              |
| <b>December</b> .....     | 103                              | 896                         | 713                         | 1,709              | 1  | (s)             | 1                  | (s)        | 231          | 234          | 1,943            | 268  | 547   | 2,758              |
| <b>Total</b> .....        | <b>1,205</b>                     | <b>9,638</b>                | <b>8,347</b>                | <b>19,171</b>      | <b>12</b>                                | <b>4</b>        | <b>19</b>          | <b>1</b>   | <b>2,467</b> | <b>2,503</b> | <b>21,674</b>    | <b>3,333</b>                                     | <b>6,456</b>  | <b>31,462</b>      |
| <b>2017 January</b> ..... | 101                              | 892                         | R 726                       | R 1,715            | 1  | (s)             | 1                  | (s)        | 215          | 218          | R 1,933          | 259  | R 514   | R 2,705            |
| <b>February</b> .....     | 99                               | 791                         | R 620                       | R 1,509            | 1  | (s)             | 1                  | (s)        | 196          | 199          | R 1,708          | R 246  | R 463   | R 2,416            |
| <b>March</b> .....        | 101                              | 853                         | R 726                       | R 1,678            | 1  | (s)             | 2                  | (s)        | 210          | 213          | R 1,892          | 265  | R 531   | R 2,688            |
| <b>April</b> .....        | 98                               | 780                         | R 687                       | R 1,564            | 1  | (s)             | 2                  | (s)        | 198          | 202          | R 1,766          | 259  | R 507   | R 2,531            |
| <b>May</b> .....          | 99                               | 785                         | R 711                       | R 1,594            | 1  | (s)             | 2                  | (s)        | 204          | 208          | R 1,802          | 273  | R 554   | R 2,630            |
| <b>June</b> .....         | 97                               | 768                         | R 691                       | R 1,553            | 1  | (s)             | 2                  | (s)        | 202          | 206          | R 1,759          | R 281  | R 561   | R 2,601            |
| <b>July</b> .....         | 104                              | 786                         | R 723                       | R 1,611            | 1  | (s)             | 3                  | (s)        | 209          | 213          | R 1,824          | 287  | R 577   | R 2,688            |
| <b>August</b> .....       | 104                              | 798                         | R 701                       | R 1,600            | 1  | (s)             | 2                  | (s)        | 214          | 218          | R 1,818          | 293  | R 560   | R 2,671            |
| <b>September</b> .....    | 102                              | 773                         | R 682                       | R 1,555            | 1  | (s)             | 2                  | (s)        | 198          | R 201        | R 1,757          | 274  | R 510   | R 2,540            |
| <b>October</b> .....      | 117                              | 820                         | R 694                       | R 1,626            | 1  | (s)             | 2                  | (s)        | 207          | 210          | R 1,837          | 271  | R 526   | R 2,634            |
| <b>November</b> .....     | 106                              | 859                         | R 729                       | R 1,691            | 1  | (s)             | 2                  | (s)        | 209          | 212          | R 1,903          | 260  | R 521   | R 2,685            |
| <b>December</b> .....     | 117                              | 937                         | 695                         | 1,745              | 1  | (s)             | 1                  | (s)        | 218          | 221          | 1,966            | 262  | 542   | 2,769              |
| <b>Total</b> .....        | <b>1,244</b>                     | <b>9,843</b>                | <b>8,384</b>                | <b>19,442</b>      | <b>13</b>                                | <b>4</b>        | <b>24</b>          | <b>1</b>   | <b>2,480</b> | <b>2,522</b> | <b>21,964</b>    | <b>3,229</b>                                     | <b>6,366</b>  | <b>31,560</b>      |

<sup>a</sup> See "Primary Energy Consumption" in Glossary.  
<sup>b</sup> Includes non-combustion use of fossil fuels.  
<sup>c</sup> See Table 10.2b for notes on series components and estimation.  
<sup>d</sup> Natural gas only; excludes the estimated portion of supplemental gaseous fuels. See Note 3, "Supplemental Gaseous Fuels," at end of Section 4.  
<sup>e</sup> Does not include biofuels that have been blended with petroleum—biofuels are included in "Biomass."  
<sup>f</sup> Includes coal coke net imports, which are not separately displayed. See Tables 1.4a and 1.4b.  
<sup>g</sup> Conventional hydroelectric power.  
<sup>h</sup> Solar photovoltaic (PV) electricity net generation in the industrial sector, both utility-scale and distributed (small-scale). See Tables 10.2b and 10.5.  
<sup>i</sup> Electricity retail sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.  
<sup>j</sup> Total losses are calculated as the primary energy consumed by the electric power sector minus the energy content of electricity retail sales. Total losses are allocated to the end-use sectors in proportion to each sector's share of total

electricity retail sales. See Note 1, "Electrical System Energy Losses," at end of section.  
R=Revised. NA=Not available. - =No data reported. (s)=Less than 0.5 trillion Btu.  
Notes: • Data are estimates, except for coal totals; hydroelectric power in 1949–1978 and 1989 forward; solar; wind; and electricity retail sales. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. See Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7. • See Note 2, "Energy Consumption Data and Surveys," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.  
Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#consumption> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.  
Sources: See end of section.