

**Table 10.5 Solar Energy Consumption**  
(Trillion Btu)

|                          | Small-Scale <sup>a</sup> Solar Energy <sup>b</sup> |                          |                   |                   |       |                    | Utility-Scale <sup>c</sup> Solar Energy <sup>b</sup> |                                |                                    |       |       | Total <sup>k</sup> |
|--------------------------|----------------------------------------------------|--------------------------|-------------------|-------------------|-------|--------------------|------------------------------------------------------|--------------------------------|------------------------------------|-------|-------|--------------------|
|                          | Heat <sup>f</sup>                                  | Electricity <sup>d</sup> |                   |                   |       | Total <sup>g</sup> | Electricity <sup>e</sup>                             |                                |                                    |       |       |                    |
|                          |                                                    | Residential Sector       | Commercial Sector | Industrial Sector | Total |                    | Commercial Sector <sup>h</sup>                       | Industrial Sector <sup>i</sup> | Electric Power Sector <sup>j</sup> | Total |       |                    |
| 1985 Total .....         | NA                                                 | NA                       | NA                | NA                | NA    | NA                 | NA                                                   | NA                             | (s)                                | (s)   | (s)   |                    |
| 1990 Total .....         | 55                                                 | (s)                      | (s)               | (s)               | (s)   | 55                 | —                                                    | —                              | 1                                  | 1     | 56    |                    |
| 1995 Total .....         | 63                                                 | (s)                      | (s)               | (s)               | (s)   | 63                 | —                                                    | —                              | 2                                  | 2     | 64    |                    |
| 2000 Total .....         | 57                                                 | (s)                      | (s)               | (s)               | (s)   | 58                 | —                                                    | —                              | 2                                  | 2     | 59    |                    |
| 2005 Total .....         | 49                                                 | (s)                      | 1                 | (s)               | 1     | 50                 | —                                                    | —                              | 2                                  | 2     | 52    |                    |
| 2010 Total .....         | 56                                                 | 3                        | 4                 | 1                 | 8     | 64                 | (s)                                                  | (s)                            | 4                                  | 4     | 68    |                    |
| 2011 Total .....         | 58                                                 | 5                        | 6                 | 1                 | 12    | 70                 | (s)                                                  | (s)                            | 6                                  | 6     | 76    |                    |
| 2012 Total .....         | 59                                                 | 7                        | 10                | 2                 | 20    | 79                 | 1                                                    | (s)                            | 14                                 | 15    | 94    |                    |
| 2013 Total .....         | 61                                                 | 11                       | 14                | 3                 | 28    | 89                 | 1                                                    | (s)                            | 30                                 | 31    | 120   |                    |
| 2014 Total .....         | 63                                                 | 17                       | 18                | 4                 | 38    | 101                | 1                                                    | (s)                            | 59                                 | 60    | 161   |                    |
| 2015 Total .....         | 63                                                 | 24                       | 19                | 5                 | 48    | 112                | 1                                                    | (s)                            | 83                                 | 85    | 197   |                    |
| 2016 Total .....         | 65                                                 | 36                       | 21                | 7                 | 64    | 129                | 2                                                    | (s)                            | 121                                | 123   | 252   |                    |
| 2017 Total .....         | 68                                                 | 48                       | 26                | 8                 | 82    | 150                | 2                                                    | (s)                            | 180                                | 182   | 331   |                    |
| 2018 Total .....         | 69                                                 | 58                       | 33                | 9                 | 101   | 170                | 2                                                    | (s)                            | 216                                | 218   | 388   |                    |
| 2019 Total .....         | 70                                                 | 71                       | 38                | 10                | 119   | 189                | 2                                                    | (s)                            | 243                                | 245   | 435   |                    |
| 2020 Total .....         | 70                                                 | 86                       | 44                | 12                | 142   | 212                | 2                                                    | (s)                            | 302                                | 304   | 516   |                    |
| 2021 Total .....         | 75                                                 | 103                      | 52                | 13                | 168   | 243                | 2                                                    | (s)                            | 391                                | 393   | 636   |                    |
| 2022 Total .....         | 84                                                 | 135                      | 60                | 14                | 209   | 293                | 2                                                    | 1                              | 487                                | 491   | 784   |                    |
| 2023 Total .....         | 92                                                 | 168                      | 67                | 15                | 250   | 342                | 2                                                    | 1                              | 562                                | 565   | 907   |                    |
| 2024 January .....       | 6                                                  | 11                       | 4                 | 1                 | 16    | 22                 | (s)                                                  | (s)                            | 33                                 | 33    | 55    |                    |
| February .....           | 6                                                  | 12                       | 5                 | 1                 | 18    | 25                 | (s)                                                  | (s)                            | 43                                 | 43    | 67    |                    |
| March .....              | 9                                                  | 17                       | 6                 | 1                 | 24    | 33                 | (s)                                                  | (s)                            | 54                                 | 55    | 88    |                    |
| April .....              | 9                                                  | 18                       | 7                 | 2                 | 27    | 36                 | (s)                                                  | (s)                            | 65                                 | 66    | 102   |                    |
| May .....                | 10                                                 | 20                       | 8                 | 2                 | 29    | 39                 | (s)                                                  | (s)                            | 76                                 | 76    | 116   |                    |
| June .....               | 10                                                 | 20                       | 8                 | 2                 | 29    | 40                 | (s)                                                  | (s)                            | 83                                 | 83    | 123   |                    |
| July .....               | 11                                                 | 20                       | 8                 | 2                 | 30    | 41                 | (s)                                                  | (s)                            | 83                                 | 84    | 124   |                    |
| August .....             | 10                                                 | 20                       | 8                 | 2                 | 29    | 39                 | (s)                                                  | (s)                            | 83                                 | 83    | 122   |                    |
| September .....          | 9                                                  | 17                       | 7                 | 1                 | 26    | 35                 | (s)                                                  | (s)                            | 70                                 | 70    | 105   |                    |
| October .....            | 8                                                  | 16                       | 6                 | 1                 | 23    | 31                 | (s)                                                  | (s)                            | 67                                 | 68    | 99    |                    |
| November .....           | 7                                                  | 13                       | 5                 | 1                 | 18    | 25                 | (s)                                                  | (s)                            | 47                                 | 47    | 72    |                    |
| December .....           | 6                                                  | 12                       | 4                 | 1                 | 17    | 23                 | (s)                                                  | (s)                            | 43                                 | 43    | 66    |                    |
| Total .....              | 102                                                | 196                      | 74                | 16                | 286   | 388                | 2                                                    | 2                              | 746                                | 750   | 1,138 |                    |
| 2025 January .....       | 6                                                  | 13                       | 5                 | 1                 | 18    | 25                 | (s)                                                  | (s)                            | 52                                 | 53    | 78    |                    |
| February .....           | 7                                                  | 14                       | 5                 | 1                 | 20    | 27                 | (s)                                                  | (s)                            | 56                                 | 56    | 83    |                    |
| March .....              | 9                                                  | 19                       | 7                 | 1                 | 27    | 37                 | (s)                                                  | (s)                            | 79                                 | 79    | 116   |                    |
| April .....              | 10                                                 | 20                       | 8                 | 2                 | 30    | 40                 | (s)                                                  | (s)                            | 91                                 | 91    | 132   |                    |
| May .....                | 11                                                 | 21                       | 9                 | 2                 | 32    | 43                 | (s)                                                  | (s)                            | 101                                | 101   | 144   |                    |
| June .....               | 11                                                 | 22                       | 9                 | 2                 | 32    | 43                 | (s)                                                  | 1                              | 108                                | 109   | 153   |                    |
| July .....               | 12                                                 | 23                       | 9                 | 2                 | 34    | 45                 | (s)                                                  | 1                              | 113                                | 114   | 159   |                    |
| August .....             | 11                                                 | 21                       | 9                 | 2                 | 32    | 43                 | (s)                                                  | 1                              | 108                                | 109   | 151   |                    |
| September .....          | 10                                                 | 19                       | 8                 | 2                 | 28    | 38                 | (s)                                                  | 1                              | 95                                 | 96    | 134   |                    |
| October .....            | 9                                                  | 18                       | 7                 | 1                 | 26    | 35                 | (s)                                                  | 1                              | 83                                 | 84    | 119   |                    |
| November .....           | 7                                                  | 14                       | 5                 | 1                 | 20    | 28                 | (s)                                                  | (s)                            | 63                                 | 63    | 91    |                    |
| December .....           | 7                                                  | 13                       | 5                 | 1                 | 19    | 26                 | (s)                                                  | (s)                            | 52                                 | 53    | 78    |                    |
| Total .....              | 111                                                | 216                      | 85                | 17                | 318   | 429                | 2                                                    | 5                              | 1,001                              | 1,009 | 1,438 |                    |
| 2026 January .....       | 6                                                  | 14                       | 5                 | 1                 | 21    | 27                 | (s)                                                  | 1                              | 61                                 | 61    | 88    |                    |
| February .....           | 7                                                  | 15                       | 6                 | 1                 | 22    | 29                 | (s)                                                  | 1                              | 72                                 | 73    | 101   |                    |
| March .....              | 9                                                  | 21                       | 8                 | 2                 | 31    | 40                 | (s)                                                  | 1                              | 98                                 | 99    | 139   |                    |
| April .....              | 10                                                 | 23                       | 9                 | 2                 | 33    | 44                 | (s)                                                  | 1                              | 105                                | 106   | 150   |                    |
| May .....                | 11                                                 | 25                       | 10                | 2                 | 37    | 47                 | (s)                                                  | 1                              | 123                                | 124   | 172   |                    |
| 5-Month Total .....      | 43                                                 | 97                       | 39                | 8                 | 143   | 186                | 1                                                    | 3                              | 459                                | 463   | 650   |                    |
| 2025 5-Month Total ..... | 44                                                 | 87                       | 34                | 7                 | 127   | 171                | 1                                                    | 1                              | 379                                | 381   | 552   |                    |
| 2024 5-Month Total ..... | 41                                                 | 79                       | 30                | 6                 | 114   | 155                | 1                                                    | 1                              | 271                                | 272   | 427   |                    |

<sup>a</sup> Data are estimates for small-scale facilities (combined generator nameplate capacity less than 1 megawatt).

<sup>b</sup> See "Photovoltaic Energy" and "Solar Thermal Energy" in Glossary.

<sup>c</sup> Data are for utility-scale facilities (combined generator nameplate capacity of 1 megawatt or more).

<sup>d</sup> Solar photovoltaic (PV) electricity generation at small-scale facilities connected to the electric power grid (converted to Btu by multiplying by the heat content of electricity in Table A6).

<sup>e</sup> Solar photovoltaic (PV) and solar thermal electricity net generation at utility-scale facilities (converted to Btu by multiplying by the heat content of electricity in Table A6).

<sup>f</sup> Solar thermal direct use energy in the residential, commercial, and industrial sectors for all end uses, such as pool heating, hot water heating, and space heating.

<sup>g</sup> Data are the sum of "Small-Scale Solar Energy Heat" and "Small-Scale Solar Energy Electricity."

<sup>h</sup> Commercial combined-heat-and-power (CHP) and commercial electricity-only plants. See Note 2, "Classification of Power Plants Into Energy-Use Sectors," at

end of Section 7.

<sup>i</sup> 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.

<sup>j</sup> Electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only; beginning in 1989, data are for electric utilities and independent power producers.

<sup>k</sup> Data are the sum of "Small-Scale Solar Energy Total" and "Utility-Scale Solar Energy Total."

NA=Not available. —=No data reported. (s)=Less than 0.5 trillion Btu.

Notes: • Small-scale solar energy data for all years, and utility-scale solar energy data for the current two years, are estimates. • 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/#renewable> (Excel and CSV files) for all available annual and monthly data beginning in 1984.

Sources: See end of section.