

Table 10.5 Solar Energy Consumption
(Trillion Btu)

| | Distributed ^a Solar Energy ^b | | | | | Utility-Scale ^c Solar Energy ^d | | | | | Total ^k |
|---------------------------------|--|--------------------------|-------------------|-------------------|------------|--|--------------------------------|--------------------------------|------------------------------------|------------|--------------------|
| | Heat ^f | Electricity ^d | | | | Total ^g | Electricity ^e | | | | |
| | | Residential Sector | Commercial Sector | Industrial Sector | Total | | Commercial Sector ^h | Industrial Sector ⁱ | Electric Power Sector ^j | Total | |
| 1985 Total | NA | NA | NA | NA | NA | NA | NA | NA | (s) | (s) | (s) |
| 1990 Total | 55 | (s) | (s) | (s) | (s) | 55 | — | — | 4 | 4 | 59 |
| 1995 Total | 63 | (s) | (s) | (s) | 1 | 63 | — | — | 5 | 5 | 68 |
| 2000 Total | 57 | (s) | 1 | (s) | 1 | 58 | — | — | 5 | 5 | 63 |
| 2001 Total | 55 | (s) | 1 | (s) | 1 | 56 | — | — | 6 | 6 | 62 |
| 2002 Total | 53 | 1 | 1 | (s) | 2 | 54 | — | — | 6 | 6 | 60 |
| 2003 Total | 51 | 1 | 1 | (s) | 2 | 53 | — | — | 5 | 5 | 58 |
| 2004 Total | 50 | 1 | 1 | (s) | 2 | 53 | — | — | 6 | 6 | 58 |
| 2005 Total | 49 | 1 | 2 | (s) | 3 | 52 | — | — | 6 | 6 | 58 |
| 2006 Total | 51 | 2 | 2 | 1 | 5 | 56 | — | — | 5 | 5 | 61 |
| 2007 Total | 53 | 2 | 4 | 1 | 7 | 59 | — | — | 6 | 6 | 65 |
| 2008 Total | 54 | 4 | 6 | 1 | 11 | 65 | (s) | — | 9 | 9 | 74 |
| 2009 Total | 55 | 5 | 7 | 2 | 14 | 69 | (s) | — | 9 | 9 | 78 |
| 2010 Total | 56 | 9 | 11 | 3 | 23 | 79 | (s) | (s) | 12 | 12 | 90 |
| 2011 Total | 58 | 13 | 19 | 4 | 36 | 93 | 1 | (s) | 17 | 18 | 111 |
| 2012 Total | 59 | 20 | 30 | 7 | 56 | 116 | 1 | (s) | 40 | 41 | 157 |
| 2013 Total | 61 | 31 | 38 | 9 | 78 | 138 | 3 | (s) | 83 | 86 | 225 |
| 2014 Total | 62 | 47 | 49 | 11 | 107 | 169 | 4 | (s) | 165 | 168 | 337 |
| 2015 Total | 62 | 65 | 53 | 14 | 132 | 194 | 4 | (s) | 228 | 232 | 426 |
| 2016 January | 3 | 5 | 3 | 1 | 9 | 12 | (s) | (s) | 13 | 14 | 26 |
| February | 4 | 6 | 4 | 1 | 11 | 14 | (s) | (s) | 20 | 21 | 35 |
| March | 5 | 8 | 5 | 2 | 14 | 19 | (s) | (s) | 24 | 24 | 43 |
| April | 6 | 9 | 5 | 2 | 16 | 21 | (s) | (s) | 26 | 27 | 48 |
| May | 6 | 10 | 6 | 2 | 17 | 24 | (s) | (s) | 31 | 32 | 55 |
| June | 6 | 10 | 6 | 2 | 18 | 24 | (s) | (s) | 32 | 32 | 56 |
| July | 7 | 11 | 6 | 2 | 18 | 25 | 1 | (s) | 36 | 36 | 61 |
| August | 6 | 10 | 6 | 2 | 18 | 24 | 1 | (s) | 36 | 37 | 61 |
| September | 6 | 9 | 5 | 2 | 16 | 22 | (s) | (s) | 33 | 34 | 55 |
| October | 5 | 8 | 5 | 2 | 14 | 19 | (s) | (s) | 29 | 29 | 49 |
| November | 4 | 7 | 4 | 1 | 12 | 16 | (s) | (s) | 25 | 26 | 41 |
| December | 4 | 6 | 4 | 1 | 11 | 15 | (s) | (s) | 22 | 22 | 37 |
| Total | 62 | 98 | 57 | 19 | 174 | 236 | 5 | (s) | 328 | 333 | 569 |
| 2017 January | 3 | 6 | 4 | 1 | 11 | 15 | (s) | (s) | 20 | 20 | 35 |
| February | 4 | 7 | 4 | 1 | 13 | 16 | (s) | (s) | 23 | 23 | 39 |
| March | 5 | 11 | 6 | 2 | 18 | 23 | (s) | (s) | 40 | 41 | 64 |
| April | 6 | 12 | 6 | 2 | 20 | 26 | (s) | (s) | 44 | 44 | 70 |
| May | 6 | 13 | 7 | 2 | 23 | 29 | 1 | (s) | 53 | 53 | 82 |
| June | 6 | 14 | 7 | 2 | 23 | 30 | 1 | (s) | 57 | 58 | 87 |
| July | 7 | 14 | 8 | 2 | 24 | 30 | 1 | (s) | 50 | 51 | 81 |
| August | 6 | 13 | 7 | 2 | 23 | 30 | 1 | (s) | 49 | 50 | 79 |
| September | 6 | 12 | 7 | 2 | 21 | 26 | 1 | (s) | 47 | 48 | 74 |
| October | 5 | 11 | 6 | 2 | 18 | 24 | (s) | (s) | 44 | 45 | 68 |
| November | 4 | 8 | 5 | 2 | 15 | 19 | (s) | (s) | 28 | 29 | 47 |
| December | 4 | 8 | 4 | 1 | 14 | 17 | (s) | (s) | 28 | 28 | 46 |
| Total | 63 | 129 | 71 | 23 | 223 | 285 | 5 | (s) | 483 | 489 | 774 |
| 2018 January | 3 | 9 | 5 | 2 | 15 | 19 | (s) | (s) | 30 | 30 | 49 |
| February | 4 | 9 | 5 | 2 | 16 | 20 | (s) | (s) | 37 | 37 | 57 |
| March | 5 | 13 | 7 | 2 | 22 | 27 | (s) | (s) | 47 | 47 | 75 |
| 3-Month Total | 12 | 31 | 18 | 5 | 54 | 66 | 1 | (s) | 113 | 114 | 180 |
| 2017 3-Month Total | 12 | 24 | 14 | 5 | 43 | 55 | 1 | (s) | 83 | 84 | 138 |
| 2016 3-Month Total | 12 | 18 | 12 | 4 | 34 | 46 | 1 | (s) | 58 | 59 | 104 |

^a Data are estimates for distributed (small-scale) facilities (combined generator nameplate capacity less than 1 megawatt).

^b See "Photovoltaic Energy" and "Solar Thermal Energy" in Glossary.

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

^d Solar photovoltaic (PV) electricity generation at distributed (small-scale) facilities connected to the electric power grid (converted to Btu by multiplying by the fossil fuels heat rate factors in Table A6).

^e Solar photovoltaic (PV) and solar thermal electricity net generation at utility-scale facilities (converted to Btu by multiplying by the fossil fuels heat rate factors in Table A6).

^f 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.

^g Data are the sum of "Distributed Solar Energy Heat" and "Distributed Solar Energy Electricity."

^h 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.

ⁱ 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.

^j 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.

^k Data are the sum of "Distributed Solar Energy Total" and "Utility-Scale Solar Energy Total."

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

Notes: • Distributed (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.