

Table 10.6 Solar Electricity Net Generation
(Million Kilowatthours)

| | Distributed ^a Solar Generation ^b | | | | Utility-Scale ^c Solar Generation ^b | | | | Total |
|---------------------------------|--|-------------------|-------------------|---------------|--|--------------------------------|------------------------------------|---------------|---------------|
| | Residential Sector | Commercial Sector | Industrial Sector | Total | Commercial Sector ^d | Industrial Sector ^e | Electric Power Sector ^f | Total | |
| 1985 Total | NA | NA | NA | NA | NA | NA | 11 | 11 | 11 |
| 1990 Total | 12 | 17 | 4 | 32 | — | — | 367 | 367 | 399 |
| 1995 Total | 20 | 29 | 6 | 56 | — | — | 497 | 497 | 552 |
| 2000 Total | 39 | 55 | 12 | 107 | — | — | 493 | 493 | 600 |
| 2001 Total | 47 | 67 | 15 | 129 | — | — | 543 | 543 | 672 |
| 2002 Total | 56 | 79 | 18 | 153 | — | — | 555 | 555 | 708 |
| 2003 Total | 65 | 93 | 21 | 178 | — | — | 534 | 534 | 712 |
| 2004 Total | 81 | 115 | 25 | 221 | — | — | 575 | 575 | 796 |
| 2005 Total | 121 | 172 | 38 | 332 | — | — | 550 | 550 | 882 |
| 2006 Total | 177 | 251 | 56 | 484 | — | — | 508 | 508 | 991 |
| 2007 Total | 250 | 355 | 79 | 683 | — | — | 612 | 612 | 1,295 |
| 2008 Total | 401 | 570 | 126 | 1,097 | (s) | — | 864 | 864 | 1,962 |
| 2009 Total | 539 | 766 | 170 | 1,475 | (s) | — | 891 | 891 | 2,366 |
| 2010 Total | 900 | 1,170 | 259 | 2,329 | 5 | 2 | 1,206 | 1,212 | 3,541 |
| 2011 Total | 1,358 | 1,911 | 423 | 3,692 | 84 | 7 | 1,727 | 1,818 | 5,509 |
| 2012 Total | 2,058 | 3,169 | 702 | 5,929 | 148 | 14 | 4,164 | 4,327 | 10,256 |
| 2013 Total | 3,217 | 4,023 | 891 | 8,131 | 294 | 17 | 8,724 | 9,036 | 17,167 |
| 2014 Total | 4,947 | 5,146 | 1,139 | 11,233 | 371 | 16 | 17,304 | 17,691 | 28,924 |
| 2015 Total | 6,999 | 5,689 | 1,451 | 14,139 | 416 | 21 | 24,456 | 24,893 | 39,032 |
| 2016 January | 520 | 346 | 113 | 980 | 26 | 1 | 1,458 | 1,486 | 2,465 |
| February | 622 | 398 | 124 | 1,145 | 39 | 2 | 2,201 | 2,242 | 3,386 |
| March | 835 | 520 | 171 | 1,525 | 44 | 2 | 2,571 | 2,617 | 4,143 |
| April | 951 | 566 | 186 | 1,703 | 46 | 2 | 2,831 | 2,880 | 4,583 |
| May | 1,058 | 616 | 206 | 1,879 | 48 | 3 | 3,375 | 3,425 | 5,304 |
| June | 1,099 | 623 | 206 | 1,928 | 53 | 3 | 3,418 | 3,473 | 5,401 |
| July | 1,146 | 640 | 214 | 2,000 | 55 | 3 | 3,886 | 3,945 | 5,945 |
| August | 1,113 | 620 | 209 | 1,942 | 58 | 3 | 3,908 | 3,969 | 5,911 |
| September | 989 | 556 | 190 | 1,735 | 48 | 2 | 3,584 | 3,635 | 5,370 |
| October | 884 | 493 | 174 | 1,552 | 42 | 2 | 3,147 | 3,191 | 4,743 |
| November | 726 | 393 | 139 | 1,257 | 36 | 2 | 2,729 | 2,767 | 4,024 |
| December | 653 | 387 | 128 | 1,167 | 33 | 1 | 2,389 | 2,424 | 3,591 |
| Total | 10,595 | 6,158 | 2,060 | 18,812 | 529 | 27 | 35,497 | 36,054 | 54,866 |
| 2017 January | 697 | 414 | 133 | 1,244 | 22 | NM | 2,128 | 2,152 | 3,396 |
| February | 783 | 454 | 147 | 1,383 | 26 | NM | 2,469 | 2,497 | 3,880 |
| March | 1,147 | 630 | 209 | 1,987 | 48 | NM | 4,381 | 4,433 | 6,419 |
| April | 1,284 | 700 | 227 | 2,211 | 50 | NM | 4,721 | 4,774 | 6,985 |
| May | 1,415 | 774 | 252 | 2,440 | 65 | 4 | 5,698 | 5,766 | 8,207 |
| June | 1,468 | 781 | 254 | 2,503 | 71 | 8 | 6,174 | 6,252 | 8,755 |
| July | 1,495 | 818 | 264 | 2,578 | 63 | 7 | 5,435 | 5,505 | 8,083 |
| August | 1,446 | 798 | 258 | 2,501 | 60 | 7 | 5,334 | 5,401 | 7,903 |
| September | 1,292 | 713 | 235 | 2,240 | 58 | 6 | 5,103 | 5,168 | 7,408 |
| October | 1,156 | 633 | 214 | 2,002 | 53 | 6 | 4,771 | 4,830 | 6,832 |
| November | 903 | 501 | 170 | 1,574 | 31 | 4 | 3,085 | 3,120 | 4,694 |
| December | 837 | 485 | 155 | 1,476 | 29 | NM | 3,027 | 3,059 | 4,536 |
| Total | 13,922 | 7,700 | 2,518 | 24,139 | 578 | 54 | 52,326 | 52,958 | 77,097 |
| 2018 January | 951 | 540 | 164 | 1,655 | 29 | NM | 3,229 | 3,262 | 4,917 |
| February | 1,008 | 594 | 172 | 1,774 | 39 | 5 | 3,994 | 4,037 | 5,812 |
| March | 1,395 | 779 | 241 | 2,414 | 46 | 6 | 5,047 | 5,099 | 7,513 |
| 3-Month Total | 3,354 | 1,912 | 578 | 5,843 | 114 | 15 | 12,270 | 12,399 | 18,242 |
| 2017 3-Month Total | 2,627 | 1,498 | 489 | 4,613 | 97 | 6 | 8,979 | 9,081 | 13,695 |
| 2016 3-Month Total | 1,976 | 1,264 | 409 | 3,649 | 110 | 6 | 6,229 | 6,345 | 9,994 |

^a Data are estimates for solar photovoltaic (PV) electricity generation at small-scale facilities (combined generator nameplate capacity less than 1 megawatt) connected to the electric power grid.

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

^c Solar photovoltaic (PV) and solar thermal electricity net generation at utility-scale facilities (combined generator nameplate capacity of 1 megawatt or more).

^d 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.

^e 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.

^f 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.

NA=Not available. NM=Not meaningful due to large standard error. —=No data reported. (s)=Less than 0.5 million kilowatthours.

Notes: • Distributed (small-scale) solar generation 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: • **Distributed Solar Generation: 1989–2013**—Calculated as distributed solar energy consumption (see Table 10.5) divided by the total fossil fuels heat rate factors (see Table A6). **2014 forward**—U.S. Energy Information Administration (EIA), *Electric Power Monthly*, monthly reports, Tables 1.1, 1.2.C, 1.2.D, and 1.2.E. • **Utility-Scale Solar Generation: 1984–1988**—EIA, Form EIA-759, "Monthly Power Plant Report." **1989–1997**: EIA, Form EIA-759, "Monthly Power Plant Report," and Form EIA-867, "Annual Nonutility Power Producer Report." **1998–2000**: EIA, Form EIA-759, "Monthly Power Plant Report," and Form EIA-860B, "Annual Electric Generator Report—Nonutility." **2001–2003**: EIA, Form EIA-906, "Power Plant Report." **2004–2007**: EIA, Form EIA-906, "Power Plant Report," and Form EIA-920, "Combined Heat and Power Plant Report." **2008 forward**: EIA, Form EIA-923, "Power Plant Operations Report." • **Total**: Calculated as distributed solar generation plus utility-scale solar generation.