Table 10.6 Solar Electricity Net Generation

(Million Kilowatthours)

	Distributed[a] Solar Generation[b]				Utility-Scale[c] Solar Generation[b]				
	Residential Sector	Commercial Sector	Industrial Sector	Total	Commercial Sector[d]	Industrial Sector[e]	Electric Power Sector[f]	Total	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**	**R 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	**R 65**	**93**	**21**	**R 178**	**–**	**–**	**534**	**534**	**R 712**
2004 Total	**81**	**115**	**25**	**R 221**	**–**	**–**	**575**	**575**	**R 796**
2005 Total	**R 121**	**172**	**38**	**R 332**	**–**	**–**	**550**	**550**	**R 882**
2006 Total	**R 177**	**R 251**	**56**	**R 484**	**–**	**–**	**508**	**508**	**R 991**
2007 Total	**R 250**	**355**	**79**	**R 683**	**–**	**–**	**612**	**612**	**R 1,295**
2008 Total	**R 401**	**R 570**	**126**	**R 1,097**	**(s)**	**–**	**864**	**864**	**R 1,962**
2009 Total	**R 539**	**R 766**	**170**	**R 1,475**	**(s)**	**–**	**891**	**891**	**R 2,366**
2010 Total	**R 900**	**R 1,170**	**259**	**R 2,329**	**5**	**2**	**1,206**	**1,212**	**R 3,541**
2011 Total	**R 1,358**	**R 1,911**	**R 423**	**R 3,692**	**84**	**7**	**1,727**	**1,818**	**R 5,509**
2012 Total	**R 2,058**	**R 3,169**	**R 702**	**R 5,929**	**148**	**14**	**4,164**	**4,327**	**R 10,256**
2013 Total	**R 3,217**	**R 4,023**	**R 891**	**R 8,131**	**294**	**17**	**8,724**	**9,036**	**R 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

[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.

R=Revised. 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.