

**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	
<b>1985 Total</b> .....	NA	NA	NA	NA	NA	NA	NA	NA	(s)	(s)	(s)
<b>1990 Total</b> .....	55	(s)	(s)	(s)	(s)	55	–	–	1	1	56
<b>1995 Total</b> .....	63	(s)	(s)	(s)	(s)	63	–	–	2	2	64
<b>2000 Total</b> .....	57	(s)	(s)	(s)	(s)	58	–	–	2	2	59
<b>2005 Total</b> .....	49	(s)	1	(s)	1	50	–	–	2	2	52
<b>2010 Total</b> .....	56	3	4	1	8	64	(s)	(s)	4	4	68
<b>2011 Total</b> .....	58	5	6	1	12	70	(s)	(s)	6	6	76
<b>2012 Total</b> .....	59	7	10	2	20	79	1	(s)	14	15	94
<b>2013 Total</b> .....	61	11	14	3	28	89	1	(s)	30	31	120
<b>2014 Total</b> .....	62	17	18	4	38	101	1	(s)	59	60	161
<b>2015 Total</b> .....	63	24	19	5	48	111	1	(s)	83	85	196
<b>2016 Total</b> .....	64	36	21	7	64	128	2	(s)	121	123	251
<b>2017 Total</b> .....	65	48	26	8	82	147	2	(s)	180	182	329
<b>2018 Total</b> .....	65	58	33	9	101	166	2	(s)	216	218	384
<b>2019 Total</b> .....	65	71	38	10	119	184	2	(s)	243	245	430
<b>2020 Total</b> .....	65	86	44	12	142	207	2	(s)	302	304	511
<b>2021 Total</b> .....	66	103	52	13	168	234	2	(s)	391	393	627
<b>2022</b> January .....	4	7	3	1	12	15	(s)	(s)	27	27	42
February .....	4	8	4	1	13	17	(s)	(s)	31	31	47
March .....	5	11	5	1	17	23	(s)	(s)	40	40	63
April .....	6	12	6	1	19	25	(s)	(s)	45	46	71
May .....	7	14	6	1	21	28	(s)	(s)	51	52	79
June .....	7	14	6	1	21	28	(s)	(s)	54	55	83
July .....	7	14	6	1	22	29	(s)	(s)	53	54	83
August .....	7	14	6	1	21	28	(s)	(s)	49	49	77
September .....	6	12	5	1	19	25	(s)	(s)	45	45	70
October .....	5	11	5	1	17	22	(s)	(s)	40	41	63
November .....	4	9	4	1	14	18	(s)	(s)	28	29	47
December .....	4	8	3	1	13	17	(s)	(s)	23	23	40
<b>Total</b> .....	65	135	60	14	209	274	2	1	487	491	765
<b>2023</b> January .....	4	9	4	1	14	17	(s)	(s)	27	27	44
February .....	4	10	4	1	15	19	(s)	(s)	31	32	50
March .....	5	14	6	1	20	26	(s)	(s)	41	41	67
April .....	6	15	6	1	23	29	(s)	(s)	50	50	79
May .....	7	17	7	2	26	32	(s)	(s)	57	58	90
June .....	7	17	7	2	25	32	(s)	(s)	60	60	92
July .....	7	18	7	2	26	33	(s)	(s)	64	64	98
August .....	7	18	7	2	26	32	(s)	(s)	60	61	93
September .....	6	15	6	1	23	28	(s)	(s)	53	53	82
October .....	5	14	5	1	21	26	(s)	(s)	48	48	74
November .....	4	12	4	1	17	21	(s)	(s)	35	35	56
December .....	4	11	4	1	15	19	(s)	(s)	31	31	51
<b>Total</b> .....	65	170	66	15	251	316	2	1	558	561	878
<b>2024</b> January .....	4	11	4	1	16	20	(s)	(s)	33	33	53

<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."

R=Revised. 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.