

Table 10.5 Solar Energy Consumption
(Trillion Btu)

	Small-Scale ^a Solar Energy ^b					Utility-Scale ^c Solar Energy ^b					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	-	-	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
2006 Total	51	1	1	(s)	2	52	-	-	2	2	54
2007 Total	53	1	1	(s)	2	55	-	-	2	2	57
2008 Total	54	1	2	(s)	4	58	(s)	-	3	3	61
2009 Total	55	2	3	1	5	59	(s)	-	3	3	63
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	62	17	18	4	38	101	1	(s)	59	60	161
2015 Total	63	24	19	5	48	111	1	(s)	83	85	196
2016 Total	64	36	21	7	64	128	2	(s)	121	123	251
2017 Total	65	48	26	8	82	147	2	(s)	180	182	329
2018 Total	65	58	33	9	101	166	2	(s)	216	218	384
2019 Total	65	71	38	10	119	184	2	(s)	243	245	430
2020 Total	65	86	44	12	142	207	2	(s)	302	304	511
2021 January	4	6	3	1	9	13	(s)	(s)	19	19	32
February	4	6	3	1	10	14	(s)	(s)	21	22	36
March	6	9	4	1	14	20	(s)	(s)	32	32	51
April	6	10	5	1	16	22	(s)	(s)	37	37	59
May	7	11	5	1	17	24	(s)	(s)	42	43	67
June	7	11	5	1	17	24	(s)	(s)	41	42	66
July	7	11	5	1	18	25	(s)	(s)	41	42	66
August	7	10	5	1	17	23	(s)	(s)	41	41	64
September	6	9	5	1	15	21	(s)	(s)	38	38	59
October	5	8	4	1	13	18	(s)	(s)	31	32	50
November	4	7	3	1	11	15	(s)	(s)	26	27	42
December	4	6	3	1	10	14	(s)	(s)	21	21	35
Total	66	103	52	13	168	234	2	(s)	391	393	627
2022 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	16	(s)	(s)	23	23	40
Total	65	135	60	14	209	274	2	1	487	491	765
2023 January	4	9	4	1	14	17	(s)	(s)	27	27	44
February	4	10	4	1	15	19	(s)	(s)	31	32	51
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	R 98
August	7	18	7	2	26	32	(s)	(s)	60	61	93
September	6	15	6	1	23	R 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
Total	65	170	66	15	251	316	2	1	558	561	878

^a Data are estimates for 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 small-scale facilities connected to the electric power grid (converted to Btu by multiplying by the heat content of electricity in Table A6).

^e 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).

^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 "Small-Scale Solar Energy Heat" and "Small-Scale 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 "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.