

**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		
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	
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 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	17	(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)	26	27	44	
February .....	4	10	4	1	15	19	(s)	(s)	32	32	51	
March .....	5	13	6	1	20	26	(s)	(s)	41	42	67	
April .....	6	15	6	1	23	29	(s)	(s)	51	51	80	
May .....	7	17	7	2	26	32	(s)	(s)	59	59	91	
June .....	7	17	7	2	25	32	(s)	(s)	61	61	93	
July .....	7	18	7	2	26	33	(s)	(s)	64	64	98	
August .....	7	17	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	36	57	
December .....	4	11	4	1	15	19	(s)	(s)	31	31	50	
Total .....	65	168	67	15	250	316	2	1	562	565	880	
2024 January .....	4	11	4	1	16	20	(s)	(s)	33	33	53	
February .....	4	13	5	1	19	22	(s)	(s)	42	43	65	
March .....	5	17	6	1	24	30	(s)	(s)	54	54	84	
April .....	6	18	7	1	27	33	(s)	(s)	65	65	98	
May .....	7	20	8	2	29	36	(s)	(s)	75	75	112	
June .....	7	20	8	2	29	36	(s)	(s)	82	83	119	
July .....	7	20	8	2	30	37	(s)	(s)	82	82	119	
August .....	7	19	8	2	29	36	(s)	(s)	81	82	117	
September .....	6	17	7	1	26	32	(s)	(s)	68	69	100	
October .....	6	16	6	1	23	29	(s)	(s)	66	66	95	
10-Month Total .....	58	171	67	14	253	311	2	2	648	652	962	
2023 10-Month Total .....	57	146	59	13	218	275	2	1	495	498	773	
2022 10-Month Total .....	57	117	53	12	183	239	2	1	436	439	678	

<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 NA/CS 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."

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.