Table 10.5 Solar Energy Consumption

(Trillion Btu)

	Small-Scale[a] Solar Energy[b]						Utility-Scale[c] Solar Energy[b]				
		Electricity[d]					Electricity[e]				
	Heat[f]	Residential Sector	Commercial Sector	Industrial Sector	Total	Total[g]	Commercial Sector[h]	Industrial Sector[i]	Electric Power Sector[j]	Total	Total[k]
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	**63**	**17**	**18**	**4**	**38**	**101**	**1**	**(s)**	**59**	**60**	**161**
2015 Total	**63**	**24**	**19**	**5**	**48**	**112**	**1**	**(s)**	**83**	**85**	**197**
2016 Total	**65**	**36**	**21**	**7**	**64**	**129**	**2**	**(s)**	**121**	**123**	**252**
2017 Total	**68**	**48**	**26**	**8**	**82**	**150**	**2**	**(s)**	**180**	**182**	**331**
2018 Total	**69**	**58**	**33**	**9**	**101**	**170**	**2**	**(s)**	**216**	**218**	**388**
2019 Total	**70**	**71**	**38**	**10**	**119**	**189**	**2**	**(s)**	**243**	**245**	**435**
2020 Total	**70**	**86**	**44**	**12**	**142**	**212**	**2**	**(s)**	**302**	**304**	**516**
2021 Total	**75**	**103**	**52**	**13**	**168**	**243**	**2**	**(s)**	**391**	**393**	**636**
2022 Total	**84**	**135**	**60**	**14**	**209**	**293**	**2**	**1**	**487**	**491**	**784**
2023 Total	**92**	**168**	**67**	**15**	**250**	**342**	**2**	**1**	**562**	**565**	**907**
2024 January	6	11	4	1	16	22	(s)	(s)	33	33	55
February	6	12	5	1	18	25	(s)	(s)	43	43	67
March	9	17	6	1	24	33	(s)	(s)	54	55	88
April	9	18	7	2	27	36	(s)	(s)	65	66	102
May	10	20	8	2	29	39	(s)	(s)	76	76	116
June	10	20	8	2	29	40	(s)	(s)	83	83	123
July	11	20	8	2	30	41	(s)	(s)	83	84	124
August	10	20	8	2	29	39	(s)	(s)	83	83	122
September	9	17	7	1	26	35	(s)	(s)	70	70	105
October	8	16	6	1	23	31	(s)	(s)	67	68	99
November	7	13	5	1	18	25	(s)	(s)	47	47	72
December	6	12	4	1	17	23	(s)	(s)	43	43	66
Total	**102**	**196**	**74**	**16**	**286**	**388**	**2**	**2**	**746**	**750**	**1,138**
2025 January	6	13	5	1	18	25	(s)	(s)	52	53	78
February	7	14	5	1	20	27	(s)	(s)	56	56	83
March	9	19	7	1	27	37	(s)	(s)	79	79	116
April	10	20	8	2	30	40	(s)	(s)	91	91	132
May	11	21	9	2	32	43	(s)	(s)	101	101	144
June	11	22	9	2	32	43	(s)	1	108	109	153
July	12	23	9	2	34	45	(s)	1	113	114	159
August	11	21	9	2	32	43	(s)	1	108	109	151
September	10	19	8	2	28	38	(s)	1	95	96	134
October	9	18	7	1	26	35	(s)	1	83	84	119
November	7	14	5	1	20	28	(s)	(s)	63	63	91
December	7	13	5	1	19	26	(s)	(s)	52	53	78
Total	**111**	**216**	**85**	**17**	**318**	**429**	**2**	**5**	**1,001**	**1,009**	**1,438**
2026 January	6	14	5	1	21	27	(s)	1	61	61	88
February	7	15	6	1	22	29	(s)	1	72	73	101
March	9	21	8	2	31	40	(s)	1	98	99	139
April	10	23	9	2	33	44	(s)	1	105	106	150
May	11	25	10	2	37	47	(s)	1	123	124	172
June	11	25	10	2	37	48	(s)	1	132	133	180
6-Month Total	**54**	**122**	**49**	**9**	**180**	**234**	**1**	**4**	**591**	**596**	**830**
2025 6-Month Total	**56**	**108**	**42**	**9**	**159**	**215**	**1**	**1**	**488**	**490**	**705**
2024 6-Month Total	**51**	**99**	**37**	**8**	**144**	**195**	**1**	**1**	**354**	**356**	**550**

[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."

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.