

**Table 10.5 Solar Energy Consumption**  
(Trillion Btu)

	Distributed <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>i</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	—	—	4	4	59
<b>1995 Total</b> .....	63	(s)	(s)	(s)	1	63	—	—	5	5	68
<b>2000 Total</b> .....	57	(s)	1	(s)	1	58	—	—	5	5	63
<b>2005 Total</b> .....	49	1	2	(s)	3	52	—	—	6	6	58
<b>2006 Total</b> .....	51	2	3	1	5	56	—	—	5	5	61
<b>2007 Total</b> .....	53	2	4	1	7	60	—	—	6	6	66
<b>2008 Total</b> .....	54	4	6	1	11	66	(s)	—	9	9	74
<b>2009 Total</b> .....	55	5	8	2	15	69	(s)	—	9	9	78
<b>2010 Total</b> .....	56	9	12	3	24	79	(s)	(s)	12	12	91
<b>2011 Total</b> .....	58	13	20	4	37	95	1	(s)	17	18	112
<b>2012 Total</b> .....	59	20	32	7	59	118	1	(s)	40	41	159
<b>2013 Total</b> .....	61	31	38	9	78	138	3	(s)	83	86	225
<b>2014 Total</b> .....	62	47	49	11	107	169	4	(s)	165	168	337
<b>2015 Total</b> .....	63	65	53	14	132	195	4	(s)	228	232	427
<b>2016 Total</b> .....	64	98	57	19	174	237	5	(s)	328	333	570
<b>2017 Total</b> .....	65	128	71	22	221	286	5	(s)	486	491	777
<b>2018 Total</b> .....	65	156	89	24	269	334	5	(s)	576	581	915
<b>2019</b> .....											
January .....	4	10	6	1	17	20	(s)	(s)	32	32	52
February .....	4	11	6	2	18	22	(s)	(s)	34	34	56
March .....	5	15	8	2	26	31	(s)	(s)	52	53	84
April .....	6	17	9	2	29	35	(s)	(s)	60	60	95
May .....	7	19	10	3	32	38	1	(s)	63	64	102
June .....	7	19	10	3	32	39	1	(s)	70	71	110
July .....	7	20	10	3	33	40	1	(s)	72	72	113
August .....	7	19	10	3	32	39	1	(s)	69	70	109
September .....	6	17	9	3	29	35	(s)	(s)	60	61	95
October .....	5	15	8	2	25	31	(s)	(s)	54	54	85
November .....	4	12	6	2	20	24	(s)	(s)	38	39	63
December .....	4	11	6	2	18	22	(s)	(s)	30	31	53
<b>Total</b> .....	<b>65</b>	<b>186</b>	<b>98</b>	<b>27</b>	<b>311</b>	<b>377</b>	<b>5</b>	<b>1</b>	<b>635</b>	<b>641</b>	<b>1,017</b>
<b>2020</b> .....											
January .....	4	12	7	2	21	24	(s)	(s)	41	41	66
February .....	4	14	7	2	23	27	(s)	(s)	50	51	78
March .....	5	18	10	3	30	36	(s)	(s)	57	58	94
April .....	6	21	11	3	34	40	1	(s)	72	72	112
May .....	7	23	12	3	38	45	1	(s)	86	87	132
June .....	7	23	12	3	38	45	1	(s)	85	86	130
July .....	7	24	12	3	39	46	1	(s)	92	93	139
August .....	7	23	12	3	37	44	1	(s)	84	85	129
September .....	6	20	10	3	33	39	1	(s)	70	70	109
October .....	5	19	9	3	30	36	(s)	(s)	65	65	101
November .....	4	15	7	2	25	29	(s)	(s)	52	52	81
December .....	4	14	7	2	22	26	(s)	(s)	48	48	74
<b>Total</b> .....	<b>65</b>	<b>226</b>	<b>115</b>	<b>31</b>	<b>372</b>	<b>436</b>	<b>6</b>	<b>1</b>	<b>802</b>	<b>809</b>	<b>1,246</b>
<b>2021</b> .....											
January .....	4	15	8	2	24	28	(s)	(s)	51	51	79
February .....	4	16	8	2	26	30	(s)	(s)	57	58	88
March .....	5	22	11	3	36	42	1	(s)	83	83	125
April .....	6	25	13	3	41	47	1	(s)	97	97	144
May .....	7	28	14	3	45	52	1	(s)	110	111	163
June .....	7	28	14	4	46	52	1	(s)	107	107	160
July .....	7	29	14	4	46	53	1	(s)	106	107	160
August .....	7	27	14	3	44	51	1	(s)	105	106	157
<b>8-Month Total</b> .....	<b>46</b>	<b>190</b>	<b>96</b>	<b>24</b>	<b>309</b>	<b>355</b>	<b>5</b>	<b>1</b>	<b>715</b>	<b>721</b>	<b>1,076</b>
<b>2020 8-Month Total</b> .....	<b>45</b>	<b>158</b>	<b>81</b>	<b>22</b>	<b>261</b>	<b>307</b>	<b>4</b>	<b>1</b>	<b>568</b>	<b>573</b>	<b>880</b>
<b>2019 8-Month Total</b> .....	<b>46</b>	<b>131</b>	<b>69</b>	<b>19</b>	<b>219</b>	<b>265</b>	<b>4</b>	<b>1</b>	<b>452</b>	<b>456</b>	<b>721</b>

<sup>a</sup> Data are estimates for distributed (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 distributed (small-scale) facilities connected to the electric power grid (converted to Btu by multiplying by the fossil fuels heat rate factors 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 fossil fuels heat rate factors 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 "Distributed Solar Energy Heat" and "Distributed 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 "Distributed Solar Energy Total" and "Utility-Scale Solar Energy Total."

NA=Not available. —=No data reported. (s)=Less than 0.5 trillion Btu.

Notes: • Distributed (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.