

**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>l</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	—	—	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>2001 Total</b> .....	55	(s)	1	(s)	1	56	—	—	6	6	62
<b>2002 Total</b> .....	53	1	1	(s)	2	54	—	—	6	6	60
<b>2003 Total</b> .....	51	1	1	(s)	2	53	—	—	5	5	58
<b>2004 Total</b> .....	50	1	1	(s)	2	53	—	—	6	6	58
<b>2005 Total</b> .....	49	1	2	(s)	3	52	—	—	6	6	58
<b>2006 Total</b> .....	51	2	2	1	5	56	—	—	5	5	61
<b>2007 Total</b> .....	53	2	4	1	7	59	—	—	6	6	65
<b>2008 Total</b> .....	54	4	6	1	11	65	(s)	—	9	9	74
<b>2009 Total</b> .....	55	5	7	2	14	69	(s)	—	9	9	78
<b>2010 Total</b> .....	56	9	11	3	23	79	(s)	(s)	12	12	90
<b>2011 Total</b> .....	58	13	19	4	36	93	1	(s)	17	18	111
<b>2012 Total</b> .....	59	20	30	7	56	116	1	(s)	40	41	157
<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> .....	62	65	53	14	132	194	4	(s)	228	232	426
<b>2016</b> .....											
January .....	3	5	3	1	9	12	(s)	(s)	13	14	26
February .....	4	6	4	1	11	14	(s)	(s)	20	21	35
March .....	5	8	5	2	14	19	(s)	(s)	24	24	43
April .....	6	9	5	2	16	21	(s)	(s)	26	27	48
May .....	6	10	6	2	17	24	(s)	(s)	31	32	55
June .....	6	10	6	2	18	24	(s)	(s)	32	32	56
July .....	7	11	6	2	18	25	1	(s)	36	36	61
August .....	6	10	6	2	18	24	1	(s)	36	37	61
September .....	6	9	5	2	16	22	(s)	(s)	33	34	55
October .....	5	8	5	2	14	19	(s)	(s)	29	29	49
November .....	4	7	4	1	12	16	(s)	(s)	25	26	41
December .....	4	6	4	1	11	15	(s)	(s)	22	22	37
<b>Total</b> .....	<b>62</b>	<b>98</b>	<b>57</b>	<b>19</b>	<b>174</b>	<b>236</b>	<b>5</b>	<b>(s)</b>	<b>328</b>	<b>333</b>	<b>569</b>
<b>2017</b> .....											
January .....	3	6	4	1	11	15	(s)	(s)	19	19	33
February .....	4	7	4	1	13	16	(s)	(s)	23	24	40
March .....	5	11	6	2	18	23	(s)	(s)	39	39	62
April .....	6	12	6	2	20	26	(s)	(s)	43	43	69
May .....	6	13	7	2	22	29	(s)	(s)	52	52	81
June .....	6	14	7	2	23	29	1	(s)	56	57	86
July .....	7	14	7	2	24	30	1	(s)	52	53	83
August .....	6	13	7	2	23	29	1	(s)	50	50	79
September .....	6	12	7	2	21	26	(s)	(s)	47	47	73
October .....	5	11	6	2	18	24	(s)	(s)	44	44	68
November .....	4	8	5	1	14	18	(s)	(s)	31	31	50
December .....	4	8	5	1	14	17	(s)	(s)	31	31	49
<b>Total</b> .....	<b>63</b>	<b>128</b>	<b>71</b>	<b>22</b>	<b>221</b>	<b>284</b>	<b>5</b>	<b>(s)</b>	<b>486</b>	<b>491</b>	<b>774</b>
<b>2018</b> .....											
January .....	3	8	5	1	15	18	(s)	(s)	31	31	50
February .....	4	9	6	1	16	20	(s)	(s)	38	38	58
March .....	5	13	7	2	22	28	(s)	(s)	48	48	76
April .....	6	15	8	2	25	31	1	(s)	57	58	89
May .....	6	16	9	2	28	34	1	(s)	65	65	99
June .....	7	17	9	2	28	35	1	(s)	71	72	107
July .....	7	17	10	3	29	36	1	(s)	63	64	100
August .....	7	16	9	2	28	34	1	(s)	64	64	99
September .....	6	14	8	2	25	31	1	(s)	59	60	90
October .....	5	13	7	2	22	27	(s)	(s)	48	48	75
<b>10-Month Total</b> .....	<b>55</b>	<b>138</b>	<b>79</b>	<b>21</b>	<b>238</b>	<b>293</b>	<b>5</b>	<b>1</b>	<b>542</b>	<b>548</b>	<b>841</b>
<b>2017 10-Month Total</b> .....	<b>55</b>	<b>112</b>	<b>62</b>	<b>19</b>	<b>193</b>	<b>248</b>	<b>4</b>	<b>(s)</b>	<b>424</b>	<b>428</b>	<b>676</b>
<b>2016 10-Month Total</b> .....	<b>54</b>	<b>85</b>	<b>50</b>	<b>17</b>	<b>151</b>	<b>205</b>	<b>4</b>	<b>(s)</b>	<b>280</b>	<b>285</b>	<b>490</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.