

Table F31: Solar Energy Consumption Estimates, 2019

State	Commercial ^a	Industrial ^a	Electric Power	Residential ^b	Commercial ^c	Industrial ^c	Electric Power	Total
	Million Kilowatthours			Trillion Btu				
Alabama	10	1	385	0.1	0.1	(s)	3.4	3.6
Alaska	1	(s)	0	(s)	(s)	(s)	0.0	(s)
Arizona	776	14	5,262	19.4	6.9	0.1	46.9	73.3
Arkansas	19	3	201	0.3	0.2	(s)	1.8	2.3
California	3,778	2,213	28,140	101.7	33.6	19.7	250.6	405.7
Colorado	236	2	1,203	3.9	2.1	(s)	10.7	16.8
Connecticut	226	30	134	4.1	2.0	0.3	1.2	7.5
Delaware	35	8	53	0.8	0.3	0.1	0.5	1.6
Dist. of Col.	50	0	9	0.4	0.4	0.0	0.1	0.9
Florida	145	13	3,889	32.4	1.3	0.1	34.6	68.4
Georgia	45	244	2,158	0.5	0.4	2.2	19.2	22.3
Hawaii	435	4	268	8.0	3.9	(s)	2.4	14.3
Idaho	6	4	555	0.5	0.1	(s)	4.9	5.5
Illinois	108	(s)	59	2.0	1.0	(s)	0.5	3.5
Indiana	73	3	321	0.6	0.7	(s)	2.9	4.2
Iowa	99	5	15	0.5	0.9	(s)	0.1	1.6
Kansas	15	0	11	0.2	0.1	0.0	0.1	0.5
Kentucky	22	1	45	0.2	0.2	(s)	0.4	0.8
Louisiana	16	(s)	2	2.1	0.1	(s)	(s)	2.3
Maine	32	(s)	7	0.6	0.3	(s)	0.1	0.9
Maryland	275	36	477	6.1	2.5	0.3	4.2	13.1
Massachusetts	1,273	95	1,154	7.1	11.3	0.8	10.3	29.5
Michigan	54	3	142	1.0	0.5	(s)	1.3	2.8
Minnesota	35	12	1,249	0.7	0.3	0.1	11.1	12.3
Mississippi	8	1	322	0.1	0.1	(s)	2.9	3.0
Missouri	135	6	99	1.4	1.2	0.1	0.9	3.5
Montana	7	0	29	0.2	0.1	0.0	0.3	0.5
Nebraska	5	1	32	0.1	(s)	(s)	0.3	0.4
Nevada	175	40	4,744	5.8	1.6	0.4	42.2	50.0
New Hampshire	41	8	0	0.8	0.4	0.1	0.0	1.2
New Jersey	1,163	164	1,015	10.8	10.4	1.5	9.0	31.7
New Mexico	88	1	1,366	2.1	0.8	(s)	12.2	15.0
New York	806	23	507	10.6	7.2	0.2	4.5	22.5
North Carolina	233	7	7,342	1.5	2.1	0.1	65.4	69.1
North Dakota	(s)	0	0	(s)	(s)	0.0	0.0	(s)
Ohio	121	26	136	0.7	1.1	0.2	1.2	3.3
Oklahoma	5	1	60	0.2	(s)	(s)	0.5	0.7
Oregon	88	16	676	2.5	0.8	0.1	6.0	9.4
Pennsylvania	169	70	70	3.1	1.5	0.6	0.6	5.9
Rhode Island	122	0	55	0.6	1.1	0.0	0.5	2.1
South Carolina	79	30	855	2.0	0.7	0.3	7.6	10.6
South Dakota	(s)	0	2	(s)	(s)	0.0	(s)	(s)
Tennessee	72	6	315	0.3	0.6	0.1	2.8	3.8
Texas	246	2	4,362	7.3	2.2	(s)	38.8	48.4
Utah	88	9	2,186	3.3	0.8	0.1	19.5	23.6
Vermont	57	2	147	0.9	0.5	(s)	1.3	2.8
Virginia	38	2	947	1.4	0.3	(s)	8.4	10.2
Washington	30	1	44	1.7	0.3	(s)	0.4	2.3
West Virginia	4	(s)	0	0.1	(s)	(s)	0.0	0.2
Wisconsin	41	17	36	0.6	0.4	0.2	0.3	1.5
Wyoming	2	(s)	180	0.1	(s)	(s)	1.6	1.7
United States	11,588	3,127	71,265	251.5	103.2	27.8	634.6	1,017.1

^a Includes photovoltaic and solar thermal electricity net generation at utility-scale and small-scale facilities.

^b Includes small amount of solar thermal energy consumed as heat by the commercial and industrial sectors.

^c Excludes small amount of distributed solar heat included in the residential sector.

Where shown, (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: • Residential consumption cannot be presented here in kilowatthours because it

covers both distributed solar heat and small-scale photovoltaic (PV) generation. See data files for residential small-scale PV generation in kilowatthours. • There are no direct fuel costs for photovoltaic and solar thermal energy. • Totals may not equal sum of components due to independent rounding. See Section 5 of the Technical Notes for explanation of estimation methodology.

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.