

## Solar Photovoltaic (PV) Potential

The table below will give you an approximate estimate of costs and 25-year savings based on your electricity usage. First, find your average daily, monthly, or annual usage on the left. Then follow the row to the right to determine the PV system needed to offset 99% of your electric bill. Check the [LA Solar Map](#) for a look at your own roof!

### Solar Estimation Table

Energy Usage (kWh) and Costs						PV System Needed to Offset 99% of Bill						
Daily	Monthly	Annually	Monthly Bill	Yearly Bill	25 Year SCE Cost ^	KW System	# of Panels	Min. SqFt*	Max. SqFt*	KWh Generated Annually	Net Cost**	25 Year Savings**
8.5	258.5	3,102.5	\$35	\$420	\$22,003	1.8	10	140	170	3,029	\$9,510	<b>\$17,304.0</b>
13	395.4	4,745.0	\$55	\$660	\$34,576	2.8	15	210	255	4,544	\$13,682	<b>\$27,369.0</b>
17	517.1	6,205.0	\$83	\$996	\$52,179	3.7	20	280	340	6,059	\$18,242	<b>\$43,187.0</b>
21	595.0	7,665.0	\$100	\$1,200	\$65,837	4.3	23	322	391	7,574	\$20,979	<b>\$53,127.0</b>
22.7	690.0	8,280.0	\$125	\$1,500	\$82,297	5	27	378	459	8,179	\$24,278	<b>\$67,670.0</b>
25.7	783.0	9,396.0	\$150	\$1,800	\$98,756	5.8	31	434	527	9,391	\$27,874	<b>\$81,939.0</b>
29	875.0	10,500.0	\$175	\$2,100	\$115,215	6.3	34	476	578	10,300	\$30,572	<b>\$95,541.0</b>
31.6	963.0	11,556.0	\$200	\$2,400	\$131,675	7.03	38	532	646	11,512	\$34,168	<b>\$110,582.0</b>
34.8	1,044.0	12,528.0	\$225	\$2,700	\$148,134	7.5	41	574	697	12,421	\$37,397	<b>\$124,953.0</b>
39.6	1,204.5	14,454.0	\$275	\$3,300	\$181,053	8.7	47	658	799	14,238	\$42,261	<b>\$152,841.0</b>
42.3	1,286.0	15,432.0	\$300	\$3,600	\$197,512	9.2	50	700	850	15,147	\$44,958	<b>\$167,003.0</b>
47.6	1,448.0	17,376.0	\$350	\$4,200	\$230,431	10.5	57	798	969	17,268	\$50,514	<b>\$196,960.0</b>
53	1,610.0	19,320.0	\$400	\$4,800	\$263,350	11.6	63	882	1,071	19,085	\$55,832	<b>\$225,076.0</b>
68.8	1,932.0	25,112.0	\$500	\$6,000	\$329,187	14	76	1,064	1,292	23,024	\$67,353	<b>\$282,843.0</b>

^ Escalating at a conservative 6%

\*Minimum square footage based on 14 square foot panels. Maximum based on 17 square foot panels.

\*\*Price after \$2.20/watt CSI rebate and 30% federal tax credit

\*\*\*After 1 inverter replacement and .25% for maintenance

## Solar Thermal

### Solar Hot Water Heating

Solar thermal systems can be very cost effective. Naturally systems vary considerably based on your existing water heater, your demand for hot water, and the layout of the house. Generally, these systems have a relatively small footprint on your roof and serve to pre-heat water, although in Santa Monica's moderate climate a solar thermal system can often provide all the hot water you need over the summer months. If you are considering both a tankless system and a solar thermal system, make sure the brand of the tankless system is compatible with the type of solar thermal system.

#### Cost Estimates:

1-2 Occupants: You will need 1 panel plus a new storage tank; piping, pumps and controller that will cost about \$6,625.

3-6 Occupants: Solar Santa Monica estimates that a solar thermal system including panels, a new storage tank; piping, pumps, and controller will cost anywhere from \$7,400 – \$8,400.