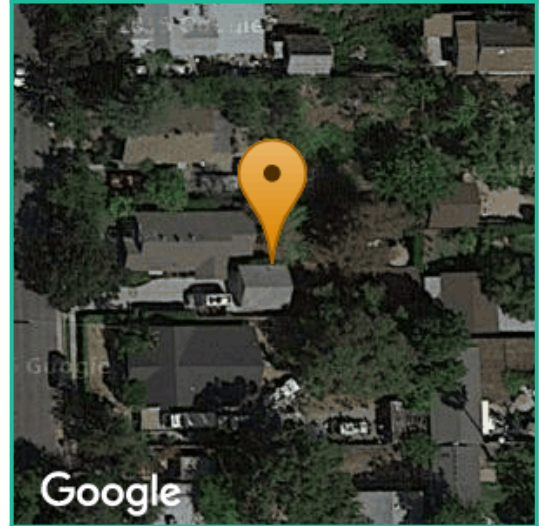




Address:

██████████ Pasadena, CA 91104, USA

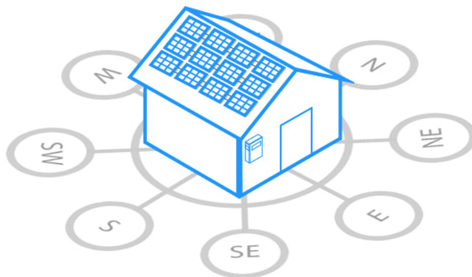


If you see a lot of trees and/or other buildings below your home (to the South), shading may be an issue for your property.

Key Metrics

- 4.25 kW** System Size: This represents the system size that matches the average electricity consumption in your state.
- \$18K** Net Total Savings: An estimate of your net savings (over 25-years) if you buy your panels with a zero-down loan.
- \$1,823** Annual Savings: An estimate of your annual utility bill savings if you go solar.
- 13 Years** Payback Period: An estimate of the number of years it takes for your system to be profitable.

Summary

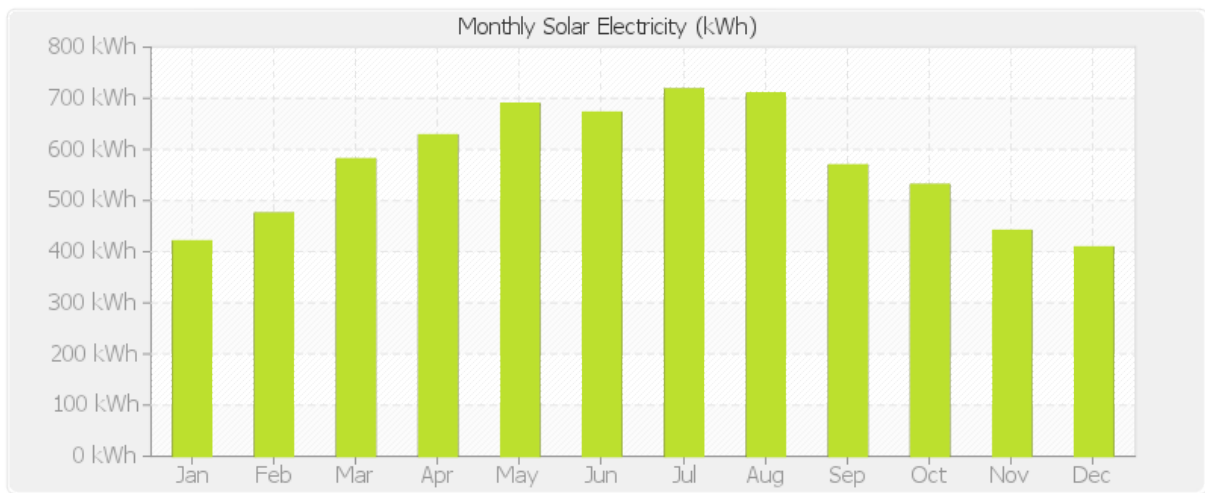


In California, the average annual electricity consumption is 6,741 kWh per year and the average utility rate is 16.91 cents per kWh. Accounting for this level of electricity consumption, you would need a 4.25 kW residential solar power system that generates **6,851 kWh** of electricity per year where you live. This would represent an average annual savings of **\$1,823** on your utility bill. The exact amount of savings will depend on your actual electricity use and utility rate.

How much power can I generate?

At your location, a solar panel system with 4.25 kW capacity can meet the entire electricity needs of a home based on the average electricity consumption in your state.

The amount of solar electricity you can generate at this location depends on the amount of [shading](#) on your rooftop as well as the orientation and tilt of the panels. The chart below shows the estimates for panels that are facing south with a 20-degree tilt and no shading from trees and/or other buildings nearby.

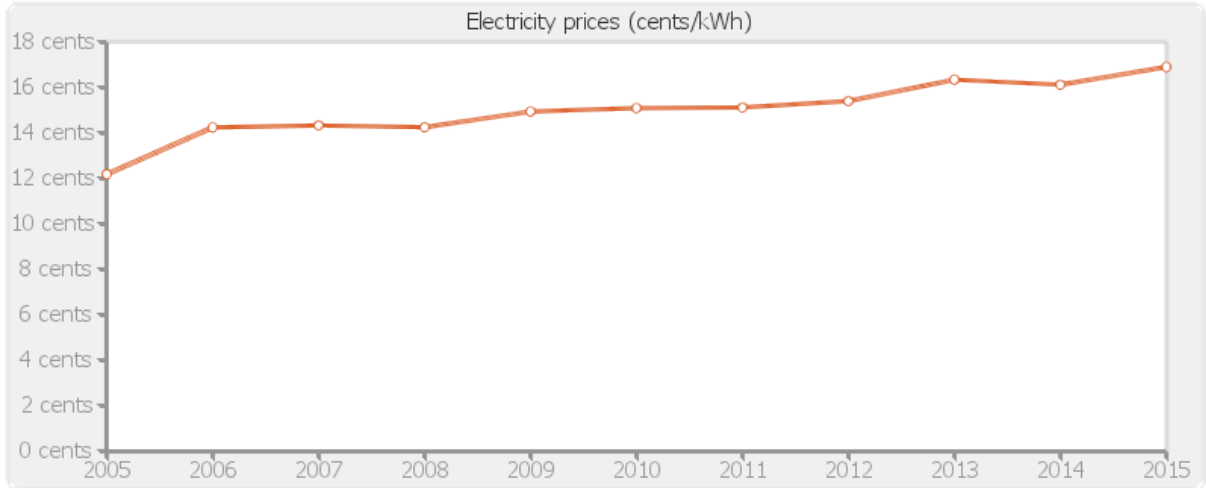


We recommend that a professional solar contractor come and take measurements of your roof and give you detailed estimates. For your reference, here are the solar electricity estimates using different shading, tilt and orientation values for your roof. Even though a tilt angle representing the latitude of your location will yield the maximum amount of solar power, such an angle may not always be practical. The actual tilt of the panels should be determined by your solar contractor.

Orientation	Inclination of the panels		
	Flat	20° Tilt	34.16° Latitude Tilt
South	6,133 kWh	6,851 kWh	6,953 kWh
West	6,133 kWh	5,792 kWh	5,364 kWh
East	6,133 kWh	6,111 kWh	5,841 kWh

Trees and other buildings around your property can cause [shading](#) and reduce the amount of electricity your solar panels can produce. A detailed roof assessment is the best way to determine the level of shading on your roof.

According to data from the Energy Administration Information (EAI), residential electricity prices in California have gone up since 2005. Installing solar panels can help you save money and mitigate against increasing utility bills.



3.33%

Historical data since 2005 indicate that the average year-over-year increase in utility rates in California was 3.33%. This is also called your utility escalation rate.

In comparison, during the same period, the average utility escalation rate in the U.S. was 3% per year and the average annual inflation rate was 2.08% according to the Bureau of Labor Statistics.

What Size System Do I Need?

Do you use more or less electricity than your state average of 6741 kWh per year? Use our handy comparison table below to determine the solar panel system size that better matches your needs.

	Electricity Consumption Amount		
	30% Less	Average	30% More
Consumption	4,719 kWh	6,741 kWh	8,763 kWh
Optimal System Size	3 kW	4.25 kW	5.5 kW
Production	4,836 kWh	6,851 kWh	8,866 kWh
Annual Savings	\$1,287	\$1,823	\$2,360
Total Savings Over 25 Years	\$13,152	\$18,632	\$24,112

We recommend that the system size be optimized to minimize excess solar electricity generation.

Next Steps

- You can use our solar panel calculator, [Sunmetrix Discover](#), to fine-tune your system size by inputting your actual electricity consumption information.
- If you don't want to check your utility bills to determine your actual consumption, you can use our [Power Consumption Calculator](#) to estimate your consumption.

Solar Contractors Near You

The table below lists solar contractors in your area, based on the available Sunmetrix cashback, as well as their consumer reviews from Yelp and Google. The number of Sunmetrix Suns is a handy way to interpret the overall reputation of a contractor. If no cashback amount is indicated, we would be happy to contact the company and see what we can arrange.

Company	SUNMetrix	yelp	Google	Cashback
<p>AWS Solar 15.57 miles Sponsored</p>	☀️ ☀️ ☀️	3.5 out of 5 3 reviews	No rating	\$295
<p>Run on Sun 1.79 miles Sponsored</p>	☀️ ☀️ ☀️	5.0 out of 5 6 reviews	4.8 out of 5 5 reviews	\$275
<p>LA Solar Group 21.21 miles Sponsored</p>	☀️ ☀️ ☀️	5.0 out of 5 101 reviews	4.4 out of 5 7 reviews	\$250
<p>Infinity Solar 27.86 miles Sponsored</p>	☀️ ☀️ ☀️	5.0 out of 5 46 reviews	5 out of 5 30 reviews	\$250
<p>Green Conception 11.79 miles Sponsored</p>	☀️ ☀️ ☀️	5.0 out of 5 35 reviews	4.7 out of 5 6 reviews	\$250
<p>Solar Optimum 8.21 miles</p>	☀️ ☀️ ☀️	5.0 out of 5 78 reviews	No rating	Contact us
<p>Pennies Air Conditioning, H... 34.63 miles</p>	☀️ ☀️ ☀️	5.0 out of 5 71 reviews	No rating	Contact us
<p>AAA Solar Construction 43.23 miles</p>	☀️ ☀️ ☀️	5.0 out of 5 40 reviews	No rating	Contact us
<p>Green Convergence 33.1 miles</p>	☀️ ☀️ ☀️	4.5 out of 5 40 reviews	No rating	Contact us
<p>T & G Roofing Company 28.34 miles</p>	☀️ ☀️ ☀️	4.5 out of 5 40 reviews	No rating	Contact us

Federal Investment Tax Credit

The ITC is a non-refundable tax credit that reduces your federal tax liability. The amount of the tax credit is 30% of the total cost of installing solar panels on your home or commercial property. In practice, it makes solar energy 30% more affordable. For example, for a \$20,000 solar installation, you can get \$6,000 back in the form of federal tax credits. If you cannot use the entire credit during a tax year, you can carry the remainder forward to the next year. For more information, [click here](#).

State Incentives in California

Here are the other incentive programs in your state. Click on each program title for more information.

Financial Incentives

- [California Solar Initiative - Multi-Family Affordable Solar Housing \(MASH\) Program](#)
- [California Solar Initiative - PV Incentives](#)
- [California Solar Initiative - Single-Family Affordable Solar Housing \(SASH\) Program](#)
- [CEC - New Solar Homes Partnership](#)
- [Energy Efficiency Financing for Public Sector Projects](#)
- [LADWP - Feed-in Tariff \(FiT\) Program](#)
- [Partial Sales and Use Tax Exemption for Agricultural Solar Power Facilities](#)
- [Pasadena Water and Power - Solar Power Installation Rebate](#)
- [Property Tax Exclusion for Solar Energy Systems](#)
- [Renewable Auction Mechanism \(RAM\)](#)
- [Renewable Market Adjusting Tariff \(ReMAT\)](#)
- [Sales and Use Tax Exclusion for Advanced Transportation and Alternative Energy Manufacturing Program](#)
- [SCE - California Advanced Homes Incentives](#)

Regulatory Policies

- [Homebuyer Solar Option and Solar Offset Program](#)
- [Interconnection Standards](#)
- [Net Metering](#)
- [Renewables Portfolio Standard](#)
- [Solar Construction Permitting Standards](#)

Disclaimer: The tax-related information in this report is for information purposes only. We are not tax professionals so please consult one to better understand the tax implications for your particular case.

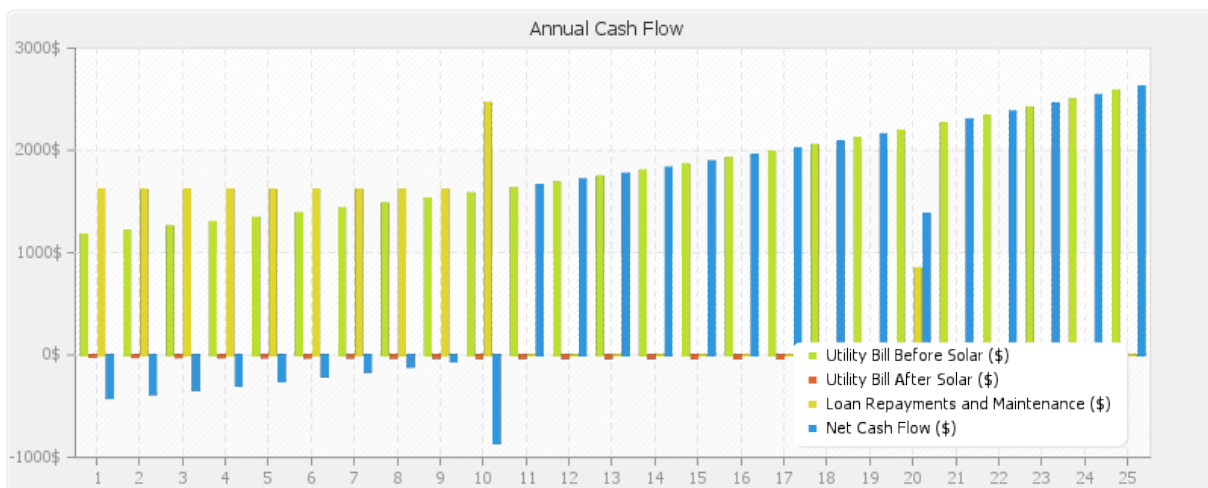
In order to maximize the profitability of your solar investment, you should choose the best financing option. Below, you can find a table comparing a purchase with zero-down solar loan to a solar lease (if available in your state). Your installer may also suggest other state-specific financing methods.

Buy vs. Lease Comparison for a 4.25 kW System in California

Item	Purchase Option	Lease Option
Net Total Savings	\$18,632	\$8,511
Amount to Finance	\$17,000	\$0
Down payment	\$0	\$0
Term for Loan or Lease	10 years	20 years
Federal tax credit	\$5,100	Claimed by the leasing company. Not available to the homeowner.
State tax credit	\$0	Not available.
Maintenance Costs	\$1,700	Incurred by the leasing company.
Interest rate	6%	Doesn't apply, see the escalation rate below.
Monthly payment	\$135	\$68
Escalation rate	You lock-in your cost, no escalation.	3%
Lifetime of your panels	25 years	Limited by the term of the lease (20 years).

Key assumptions: System size of 4.25 kW. Retail electricity rate of 16.91 cents per kWh. Cost per watt of \$4. Maintenance costs are assumed to be 10% of the total system cost before any incentives (we assume that half of these costs are incurred in year 10 and the other half in year 20). Net metering (at the retail rate) is used to estimate credits for your excess solar electricity. An inflation rate of 2% is used for financial calculations. We do not take into account any performance payments or additional charges from your local utility.

The fine print: Please note that the estimates provided above may not be 100% accurate, correct and/or complete and that they are intended solely for general information and education purposes. Any reliance placed on the content of this report is to be made at your own risk. We do not take liability for any loss or damage including without limitation, indirect or consequential loss or damage, or any loss or damage whatsoever arising out of, or in connection with the use of this report.



Contact Information

Have any questions about solar power? Interested in our solar cashback program? Contact us!



<http://sunmetrix.com>



support@sunmetrix.com



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