



Price of electricity converted from solar panels





Overview

Inverters convert DC electricity from panels to AC electricity for your home, representing 8-12% of system cost: Installation labor accounts for only 5.5-7% of total cost (\$1,375-\$2,500 for average systems), while soft costs represent 40-50% of total investment:.

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Historic Low Pricing: Solar costs have reached unprecedented lows in 2025, with systems ranging from \$2.50-\$3.50 per watt installed, making the technology more accessible than ever before. Federal Tax Credit Urgency: With Congress proposing to end the 30% federal tax credit after 2025, homeowners.

But here's the catch: pinning down exact solar costs is surprisingly tricky, with prices varying wildly based on your location, home, and dozens of other factors. What does solar power actually cost in 2025?

Let's cut through the marketing fluff and get to the real numbers. Most American households.

Solar panels generate “free” electricity, but installing a system still costs money. A typical American household needs a 10-kilowatt (kW) system to adequately power their home, which costs \$28,241 in 2025. That price effectively drops to \$19,873 after considering the full federal solar tax credit.

Solar panels cost about \$21,816 on average when purchased with cash or \$26,004 when purchased with a loan for a 7.2 kW system. While that price tag seems steep, the electricity bill savings you get from solar panels make them a worthwhile investment for most Americans. Our team of solar experts.

IRENA presents solar photovoltaic module prices for a number of different technologies. Here we use the average yearly price for technologies 'Thin film a-Si/u-Si or Global Price Index (from Q4 2013)'. This data is expressed in US dollars per watt, adjusted for inflation. IRENA (2025); Nemet.



Solar panels cost about \$30,000 on average—but often pay for themselves several times over through 25-30 years of electricity savings. Why trust EnergySage?

As subject matter experts, we provide only objective information. We design every article to provide you with deeply-researched, factual. How much does a solar system cost per watt?

Installers spread fixed costs (permits, design, mobilization) across more panels. A 4 kW system might cost \$2.80 per watt, while a 15 kW system could drop to \$2.42 per watt. While we've been talking about system prices in dollars per watt, energy analysts often use another metric: the levelized cost of electricity (LCOE).

How much do solar panels cost?

Solar panels themselves represent only 12-18% of total system cost, typically \$0.30-\$0.50 per watt. Premium monocrystalline panels offer 20-22% efficiency but cost more than standard panels with 18-20% efficiency. Panel type significantly impacts both cost and performance:.

How much does a commercial solar system cost?

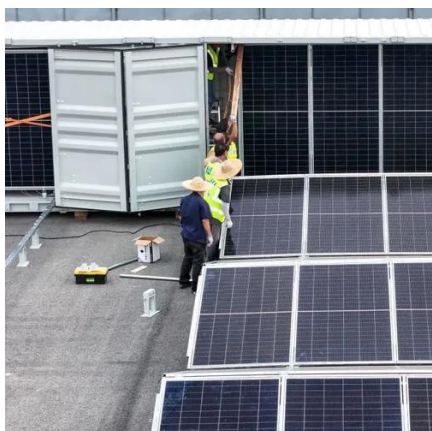
Commercial solar installations are a great way for companies to lower energy costs. Generally, installing solar panels on businesses costs a bit less per watt because the systems are larger, but the total costs will be higher. In 2025, the average cost for commercial solar panels is just about \$2.00 per watt.

What is the relative cost of solar energy?

Another measure of the relative cost of solar energy is its price per kilowatt-hour (kWh). Whereas the price per watt considers the solar system's size, the price per kWh shows the price of the solar system per unit of energy it produces over a given period of time. $\text{Net cost of the system} / \text{lifetime output} = \text{cost per kilowatt hour}$



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[Solar Panel Cost in 2025: Pricing and Savings Breakdown](#)

Based on our 2025 survey of 1,000 solar customers, the national average price for a single solar panel professionally installed ...

[How Much Do Solar Panels Cost? \(Jan 2026\)](#)

Expect the cost per watt to be between \$2 and \$3. As of publishing, the average cost per watt is \$2.84. Most solar companies set the price according to the solar system's ...



Solar (photovoltaic) panel prices

Solar (photovoltaic) panel prices This data is expressed in US dollars per watt, adjusted for inflation.

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Prices can be different for each state, as well. The average solar panel price per watt in the US is \$3.56, according to data from FindEnergy. That adds up to \$17,823 for a 5-kilowatt system.



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Right now, the national average sits around \$2.84 per watt before incentives, though competitive markets can see prices as low as \$2.50 per watt. The solar industry uses a ...



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Solar power costs in 2025 represent exceptional value for most homeowners, with system prices at historic lows and electricity rates continuing to rise. The combination of the ...



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Solar panel costs range from \$16,600 to \$20,500 for the average 6.5 kW system, but prices can vary from as little as \$7,700 for smaller solar ...



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[How Much Do Solar Panels Cost? \(Jan 2026\)](#)



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As of ...



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Based on our 2025 survey of 1,000 solar customers, the national average price for a single solar panel professionally installed is \$1,200. This means most full-size systems of between 20 and ...



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Solar Panel Costs in 2026 : It's Usually Worth It

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How Much Do Solar Panels Cost on average?How Much Do Solar Panels Cost in Each State?Solar Panel Cost BreakdownSolar Panel Costs Over TimeWhat Factors Impact How Much Solar Panels Cost?Are There Hidden Solar Panel Installation Costs?How Can You Save Money on A Solar Installation?How to Pay For Solar PanelsHow Much Money Do Solar Panels Save on Electricity Bills?Are Solar Panels Right For You?Solar panel installations don't cost the same in every state, primarily due to differences in labor rates. The cost of solar panels also varies with the climate, household energy consumption, permitting and code requirements, and other market conditions. The following table outlines the average cost of solar panels in all 50 states:See more on solarreviews CNET



How Much Do Solar Panels Cost in 2025?

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