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Title: Price per kilowatt of solar panels

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How much do solar panels cost?

As of 2025, the average cost of residential solar panels in the U.S. is between \$15,000 and \$25,000 before incentives. This typically translates to about \$2.50 to \$3.50 per watt of installed capacity (more on price per watt below). The total price depends on your system size, location, roof type, and installer.

How much does solar cost per watt?

For reference, the national average cost of solar panels is \$3.03 per watt. Solar rebates help make solar more affordable by directly lowering the upfront cost of a solar installation. If you have access to solar rebates, consider yourself lucky! They are few and far between these days.

How much does a 12 kW solar panel cost?

Your state's averages matter more than national numbers, and factors like shading, roof complexity, and local incentive programs all play a role in your final price. The average cost of a 12 kW solar panel installation on EnergySage is \$29,649 before available incentives.

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. $\text{Net cost of the system} / \text{lifetime output} = \text{cost per kilowatt hour}$

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?

This guide explains the costs involved in going solar, factors that affect pricing, and how to decide if solar panels are the right choice for you.

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Historic Low Pricing: Solar costs have reached all-time lows at \$2.56 per watt on average, with systems

ranging from \$20,000-\$30,000 before incentives. Combined with the ...

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.

To find the most up-to-date solar panel costs in 2025, we compared research from the U.S. Department of Energy and prices from 54 retailers and manufacturers for popular solar panel...

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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.

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 ...

How much does solar panel installation cost? See pricing by home size, nationwide averages, and factors that will affect your costs in 2025.

Outfitting a 6 kW solar system costs \$6,000 to \$9,000. Polycrystalline panels cost \$0.90 to \$1 per watt. You can tell them apart from other panels because they're blue.

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, ...

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