How much does a solar photovoltaic system cost

Overview

How much do solar panels cost on average?

 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).How much does a solar panel cost?

Today's premium monocrystalline solar panels typically cost between 30 and 50 cents per Watt, putting the price of a single 400-watt solar panel between $120 to $200, depending on how you buy it. Less efficient polycrystalline panels are typically cheaper at $0.25 per Watt. The cost of a solar panel also depends on how you buy it.

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.

How much does a home solar system cost?

According to studies by the U.S. Department of Energy, the all-in cost of a home solar panel system is between $2.74 to $3.30 per watt. [1,2,12] This figure includes the solar panels, the installation, and other expenses. Using these numbers, an average-sized 8-kilowatt residential solar system would cost between $21,900 – $26,400.

How much does a 12 kW solar panel cost?

The average cost of a 12 kW solar panel installation on EnergySage is $20,754 after the federal tax credit. You'll probably save anywhere from $34,000-$120,000 over 25 years by going solar. Solar panels are just 12% of the total cost of a solar panel installation.

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How much does it cost to clean solar panels?

Solar panels require very little upkeep. If you're able to clean the solar panels yourself, the only maintenance cost will be the water used to hose them down. If you hire a professional to clean your solar panels, it will cost around $100 to $350, on average.

How much does it cost to install and manage solar panels?

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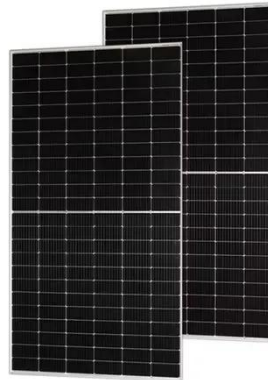
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The True Cost of Solar The factors that make up how much it costs to install a solar panel system fall into two general categories of hardware costs and soft costs. Hardware costs include the ...

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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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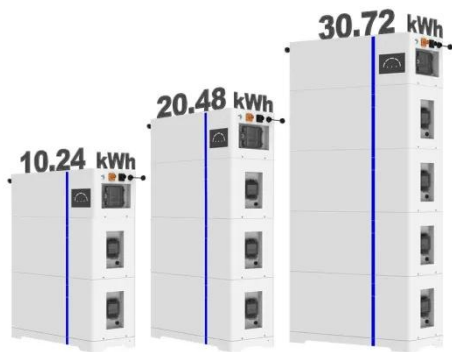If you're considering installing solar panels or upgrading an existing system, follow this guide to understand the real

cost of solar panels.

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The average 6-kW residential solar panel installation is $17,852 before incentives. Learn about cost factors, financing options, tax breaks and more.

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Investing in solar panels can slash your energy bills and carbon footprint--but the upfront cost often feels daunting.
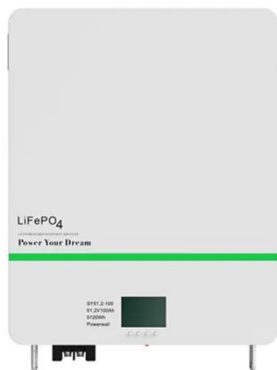
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