

Photovoltaic project Are solar panels expensive How much





Overview

How much do solar panels cost?

The price of solar panels changes depending on where you live, but the average for installation is just under \$29,000 or \$2.75 per watt. On the high end, we talked to a solar customer in Hawaii who spent \$100,000 going solar. Dion in Nevada said their 10-kW system cost about \$20,000, which is about the national average price for a 7-kW system.

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.

Why do solar panels cost so much?

How much sun exposure your roof gets is one of the biggest factors in solar panel costs. Roofs that have more hours of exposed sunlight—throughout the day and across the year—will need fewer panels and therefore have a lower cost. Roofs with less exposure will see the opposite effect.

How much does solar installation cost?

On the high end, we talked to a solar customer in Hawaii who spent \$100,000 going solar. Dion in Nevada said their 10-kW system cost about \$20,000, which is about the national average price for a 7-kW system. What else affects solar installation costs?

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How much does a solar system cost per watt?

As of publishing, the average cost per watt is \$2.84. Most solar companies set



the price according to the solar system's wattage. A solar installation's “cost per watt” is a little like the “price per square foot” when you buy a house. It helps compare the value of solar energy systems in different sizes.

Are solar installations cheap?

Solar installations aren't cheap, but the actual equipment is a relatively small part of the total cost. It's only 35% of your total installation cost, according to the US Department of Energy. Soft costs, also known as the hidden costs of installing solar, are nonhardware costs, and they make up 65% of your total solar costs, according to the DOE.



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Solar Panel Cost Breakdown

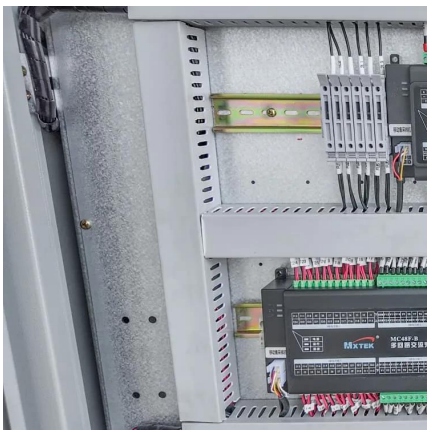
Find out the cost of solar panels, including installation and maintenance. Get insights into pricing and savings for switching to solar energy.

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The average solar panel cost has declined dramatically over the last decade, and solar systems now offer more value to homeowners than they ever have before

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The total cost of a solar project depends on a variety of factors including, the size of the



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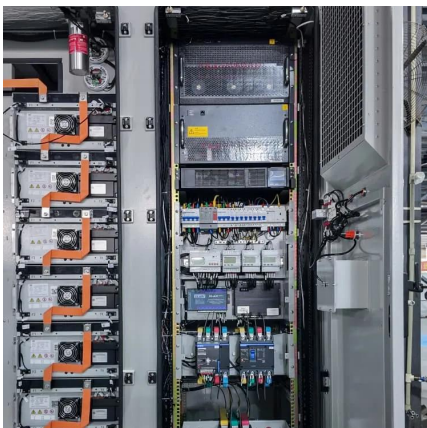
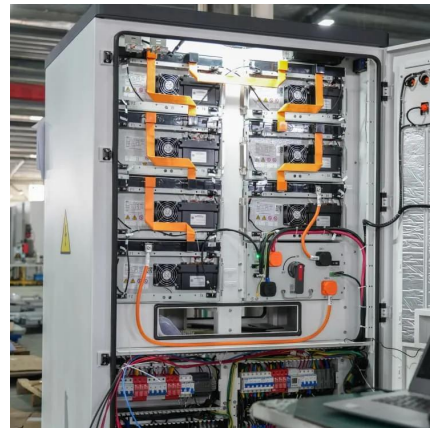
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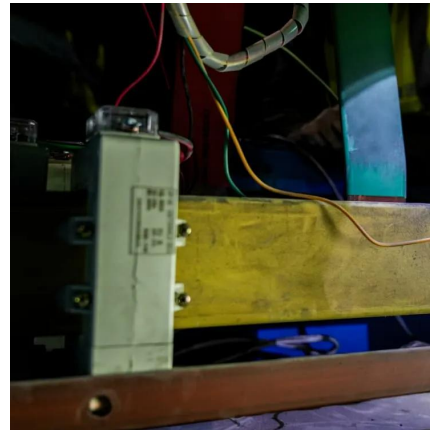
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Average Solar Installation Costs in 2025:
Discover what homeowners pay per watt, system size pricing, and how to cut upfront costs before tax credits.

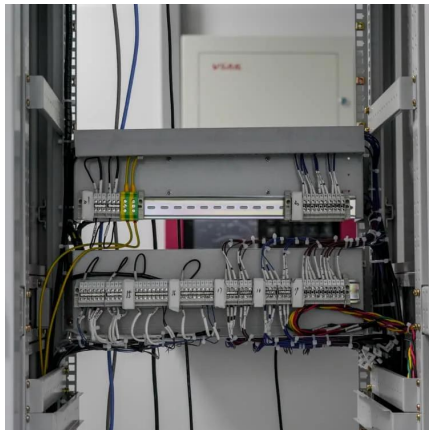
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However, solar farms differ in several significant ways from commercial solar power systems and rooftop solar systems. Solar farms benefit from economies ...

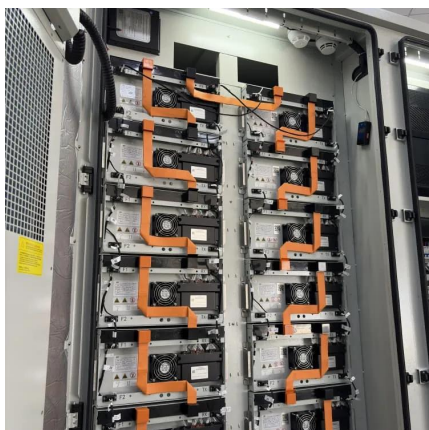
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