How much does 1200 watts of solar energy cost

Overview

Total system costs for a 1200W solar installation in 2025 typically range from $1,800 to $6,000 depending on component quality and installation complexity: Solar Panels (30-40% of total cost)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.

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 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 do you calculate solar cost per watt?

Calculating solar price per watt is pretty simple. Simply divide the cost of the system (in dollars) by the size of the system (in watts). PPW = System cost / System wattage Now, solar systems are typically sized in kilowatts (kW), so you'll have to multiply by 1,000 to convert to watts.

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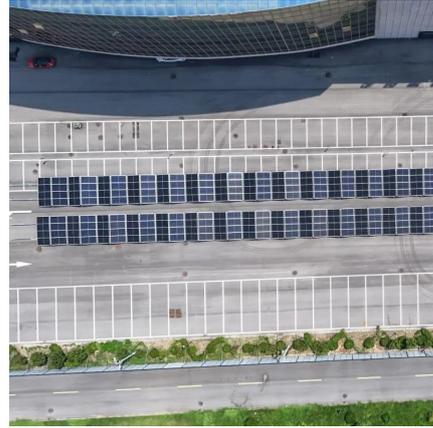

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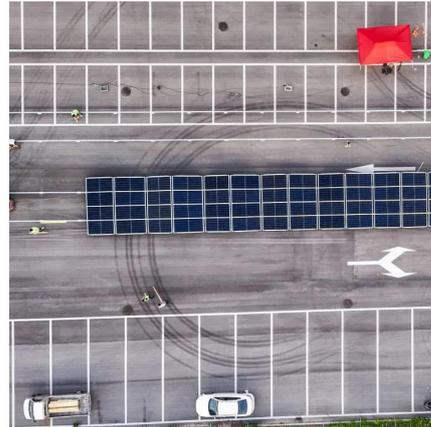

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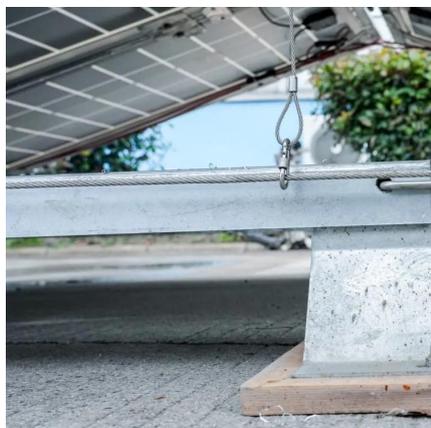

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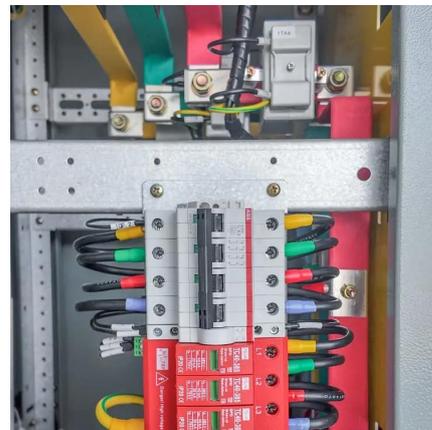
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cost of solar panels also varies with the climate, household energy consumption, permitting and code requirements, and other market conditions. The following table outlines the average cost of solar panels in all 50 states:See more on solarreviews National Renewable Energy Laboratory (NREL)

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