

Average cost for solar system





Overview

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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. NOTE: Under the "One Big Beautiful Bill Act" signed in July 2025, the federal solar.

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 systems to upward of \$34,700 for larger systems. To find the most up-to-date solar panel costs in 2025, we compared research from the U.S. Department of

Get solar power system costs based on your location, roof, power usage, and current local offers. Published: August 2025 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.

Each year, the U.S. Department of Energy (DOE) Solar Energy Technologies Office (SETO) and its national laboratory partners analyze cost data for U.S. solar photovoltaic (PV) systems to develop cost benchmarks. These benchmarks help measure progress toward goals for reducing solar electricity costs.

NREL analyzes the total costs associated with installing photovoltaic (PV) systems for residential rooftop, commercial rooftop, and utility-scale ground-mount systems. This work has grown to include cost models for solar-plus-storage systems. NREL's PV cost benchmarking work uses a bottom-up.



The average cost of installing an average-size home solar system in 2025 is \$29,360 before federal tax credits and incentives. The federal solar tax credit may reduce the net cost to \$20,552, and local incentives can further lower the cost. You can determine whether solar panels are worth it for. 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 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 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.

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 do you calculate the cost of a solar system?



Solar panel costs are usually measured in the cost per watt of solar installed. However, solar system sizes are measured in kilowatts (kW). To calculate the total price of installing a home solar system, you'll need the system size to be in watts. To convert kilowatts to watts, all you need to do is multiply the system size in kW by 1,000.



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[Solar Panel Prices in South Africa 2025 . Cost Of ...](#)

Solar Panel Prices in South Africa In South Africa, the cost of installing solar panels varies significantly depending on several factors. On average, solar panel installation costs between R70,000 for a modest home to ...

[How Much Does Solar Installation Cost? Price Guide ...](#)

The selection of solar panels affects the material costs of your solar system, ranging from \$0.90 to \$1.50 per watt. Monocrystalline panels usually sit at the higher end of the price range, while polycrystalline panels are ...



[Solar Panel Cost 2025: Complete Installation Price ...](#)

Solar panel costs have reached historic lows in 2025, making home solar more affordable than ever before. With the average residential solar system costing between \$20,000 and \$30,000 before incentives, and the ...

[Solar panel costs in 2025: Prices & savings](#)

Average cost range: Residential solar panel system costs currently range \$2.65-\$3.30 per watt before incentives Federal Tax Credit: The 30% federal tax credit reduces a \$20,000 solar installation to approximately ...



[How Much Is a Solar System for a 2,000 Sq Ft House?](#)

How many solar panels are needed for a 2,000 sq ft home? In addition to price, it's nice to have a simple, round number of panels that will make up your system. Again, there are a number of variables that impact how many ...



[Commercial Solar Panel Cost: An In-Depth Analysis...](#)

Defining Commercial Solar The cost of commercial solar panels varies widely based on the size and complexity of the system. On average, commercial solar panel systems can cost between \$2 to \$3 per watt, which ...



[How Much Do Solar Panels Cost to Install in 2025?](#)

The average cost of installing a residential solar panel system ranges between \$2 and \$3 per watt. This means you can expect to pay between \$25,000 and \$50,000 for solar energy systems, depending on various factors such as the ...





The Real Costs of Solar Installation in 2025

Solar installation costs average \$2.90 per watt in 2025, but incentives can cut costs by up to 50%. Federal and state tax credits make solar more affordable than ever. Financing options like loans and PPAs ensure solar ...

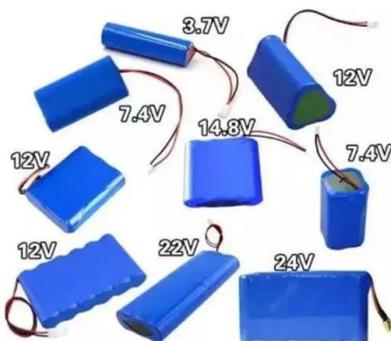


How Much Do Solar Panels Cost? - Forbes Home

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 ...

How Much Do Solar Panels Cost? (2025)

Solar panels cost by system size Solar panels cost \$3.00 to \$4.50 per watt installed on average, with homeowners spending about \$3.75 per watt before factoring in available solar incentives. A 6- to 10-kW solar panel ...



Solar Installed System Cost Analysis . Solar Market...

Solar Installed System Cost Analysis NREL analyzes the total costs associated with installing photovoltaic (PV) systems for residential rooftop, commercial rooftop, and utility-scale ground-mount systems. This work has ...



[Solar Panel Prices in 2025: Average Cost by kWh.](#)

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Solar panel installation costs a national average of \$18,180 for a 6kW solar panel system for a 1,500 square ft. home. The price per watt for solar panels can range from \$2.50 to \$3.50 and largely depends on the home's ...



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