

# **What is average cost of 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.

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.

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.

According to the most recent data from the EnergySage Marketplace, the average cost-per-watt across the U.S. is around \$2.53/W before incentives. Your state-level average cost-per-watt will be a more relevant benchmark, but those numbers vary widely. Even with that number, you'll still need to.

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 installation costs \$12,600 to \$31,500 after the 30% federal tax credit. Solar panel prices depend on the size.

If you own a 2,000-square-foot house, expect to pay around \$29,000 for a complete solar system before tax credits, or about \$20,300 after taking the



federal tax credit. How big your home is and how much electricity you use are the main things affecting your cost. A small 1,000-square-foot condo. How much does a solar system cost?

If you just need a few panels for a small do-it-yourself solar project, expect to pay around \$200 to \$350 per panel (between \$0.80 and \$1.40 per watt). Note: The table below doesn't include the cost of a solar storage battery, which can add anywhere from \$7,000 to \$18,000 to your total solar system costs.

How much do commercial solar panels cost?

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. There is a lot to consider when figuring out how much you'll spend on a solar installation.

How much does it cost to install solar panels?

It costs around \$28,000 to install solar panels. That's a big number, but incentives usually lower it significantly. Why trust EnergySage?

The average U.S. solar shopper needs about 11 kilowatts (kW) of home solar to cover their electricity usage.

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 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 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 Cost in 2025: Everything You Need to ...](#)

5 ???· The average cost of installing a 7.6kW solar system on your roof is \$23,100 before any incentives or tax credits, and most homeowners pay somewhere between \$19,100 and \$23,800.

### [How Much Is a Solar System for a 2,500 Square Foot ...](#)

The national average cost of a solar system for a 2,500 square foot house is just over \$20,500 after the 30% federal solar tax credit is applied. The average pre-incentive cost - or contract price - is \$29,374.



### **The Real Cost of Going Solar in California in 2025 , CEC**

But residential solar panels are still an investment, and your costs can vary depending on many factors. Here's what you need to know about solar panel costs in California and what you can do to save. Average Cost of ...

### [How Much Do Solar Panels Cost In Florida? - Forbes ...](#)

Solar panels in Florida cost an average of \$11,700 for a standard 6kW system or between \$5,850 and \$26,500 for a range of sizes after you incorporate tax incentives. Florida is one of the best



### Solar Panel Costs in 2025

The average cost of a residential solar panel system ranges from \$18,000 to \$43,000, depending on the system size, location, and available incentives. Typically, a 6-8 kW system--suitable for an average 2,000-square-foot ...

### What Is the Cost of Solar for a 3 Bedroom House?

The average cost of solar panels for a three bedroom house is just over \$20,000 after claiming the 30% solar tax credit. However, the size and cost of a solar system depends more on your electricity consumption than the ...



### Average Cost of Solar Panels and Installation

What is the Average Cost of Solar Panels and Installation? The cost of solar panels and installation will vary depending on the company you use, your location, the type of system you choose, installation challenges, and other ...





### Solar Photovoltaic System Cost Benchmarks

The U.S. Department of Energy's solar office and its national laboratory partners analyze cost data for U.S. solar photovoltaic systems to develop cost benchmarks to measure progress towards goals and guide research and development ...



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