

Cost for solar panels





Overview

The average cost of solar panels ranges from \$2.50 to \$3.50 per watt installed, with most homeowners paying between \$15,000 and \$35,000 for a complete system before incentives. After applying the 30% federal tax credit, net costs typically range from \$10,500 to \$24,500.

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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 make them a worthwhile investment for most Americans.

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 home—will cost between \$15,000 and \$22,500 before applying any incentives.

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.

Our team found that the average homeowner installs a solar system ranging in size from 6 kilowatts (kW) to 8 kW. For this range, solar panels cost between \$15,000 and \$22,500 before incentives, according to our industry research and nationwide survey results. How much do solar panels typically cost to install in a home?

The average cost to install solar panels is from \$10,626 to \$26,460 (after tax credit) for a 6kW to 12kW system to power an entire house. The average solar panel payback period is 7 to 12 years, and solar energy saves \$600 to \$2,000 per year on electricity costs.



What is the average cost of solar panels in the United States?

The average cost to install solar panels in the United States is about \$12,000 after federal tax incentives. On the low end, you can install a smaller system for around \$5,000, while a high-priced Tier 1 solar panel system can cost \$40,000 or more. There are additional costs that go into an installation project beyond the price of panels.

How much does a 6 kW solar panel installation typically cost?

Solar panels cost \$1.77 to \$2.20 per watt and a 6 kW solar panel installation for the average home costs from \$10,626 to \$13,230 after the 30% federal solar tax credit. Solar energy costs \$0.08 to \$0.10 per kWh to produce on average, depending on your location.



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Solar Panel Costs in 2025

With rising energy costs and environmental concerns, now is the perfect time to consider solar for your home. Below, we'll explain everything you need to know about solar panel costs, incentives, and their impact on your wallet.



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 ...

Your guide to home solar in 2025

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