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Price per watt for solar modules

Overview

As of 2025, the average solar panel installation cost per watt ranges from $2.50 to $3.50, including equipment, labor, and permitting. While larger systems require a bigger upfront investment, they typically offer a lower cost per watt and better long-term value.

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Switch to solar with a system built for you. Solar panels generate “free” electricity, but installing a system still costs money. 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.

How much you pay to go solar will depend on six factors, including your electricity usage, how many solar panels you install, the incentives you use, and the installer you choose. Use this calculator to find out how much solar panels cost for your specific home How much do solar panels cost in.

This typically translates to about $2.50 to $3.50 per watt of installed capacity (more on price per watt below). The total price depends on your system size, location, roof type, and installer. In previous years, homeowners could claim a federal tax credit worth 30% of their solar and/or battery.

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.

Historic Low Pricing: Solar costs have reached all-time lows at $2.56 per watt on average, with systems ranging from $20,000-$30,000 before incentives. Combined with the tax credit, homeowners can achieve payback periods of just 6-10 years. Significant Regional Variations: Solar costs vary.

This data is expressed in US dollars per watt, adjusted for inflation. Data source:

IRENA (2025); Nemet (2009); Farmer and Lafond (2016) – Learn more about this data Note: Data is expressed in constant 2024 US$ per watt. OurWorldinData.org/energy | CC BY IRENA presents solar photovoltaic module. How much do solar panels cost per watt?

The average cost per watt for solar panels in the U.S. is $2.84 for residential systems. High-efficiency monocrystalline panels tend to be at the higher end of the price range, but they generate more power with fewer panels—ideal if you have limited roof space.

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?

Multiple pieces of equipment, such as racking, wiring, and inverters, must be installed so the solar panels can power your home. Solar panels and other equipment: Believe it or not, solar panels make up just 12% of total installation costs on average, with one solar panel costing about $200 before installation costs are considered.

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.

Price per watt for solar modules

2026 Solar Panel Costs: Ultimate Guide to Pricing and Savings

Ultimately, many factors figure into the price per watt of a solar system, but the average cost is typically as low as $2.75 per watt. This price will vary if a project requires special adders like ...

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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 ...

Solar Panel Costs in 2026 : It's Usually Worth It

How Much Do Solar Panels Cost on average?How Much Do Solar Panels Cost in Each State?Solar Panel Cost BreakdownSolar Panel Costs Over TimeWhat Factors Impact How Much Solar Panels Cost?Are There Hidden Solar Panel Installation Costs?How Can You Save Money on A Solar Installation?How to Pay For Solar PanelsHow Much Money Do Solar Panels Save on Electricity Bills?Are Solar Panels Right For You?Most people will need to spend between $16,500 and $25,000 for solar panels, with the national average solar installation costing about $21,816. Most of the time, you'll see solar system costs listed as the cost per watt of solar installed so you can easily compare prices between quotes for different system sizes. The average co...See more on solarreviews

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How Much Do Solar Panels Cost? (2026)

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 ...

How Much Do Solar Panels Cost? (Jan 2026)

Expect the cost per watt to be between $2 and $3. As of publishing, the average cost per watt is $2.84. Most solar companies set the price according to the solar system's ...

Solar (photovoltaic) panel prices

IRENA presents solar photovoltaic module prices for a number of different technologies. Here we

use the average yearly price ...

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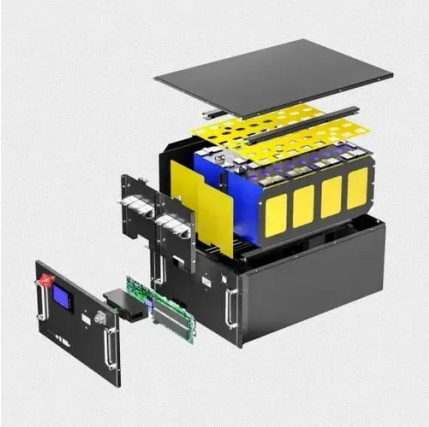
Solar Panel Costs in 2026 : It's Usually Worth It

Solar panels cost an average of $3.03 per watt, but costs can vary with location, your installer, and how you pay.

How Much Do Solar Panels Cost? - Forbes Home

Solar panels cost between $0.30 and $0.90 per watt without labor and other fees. Since your typical solar panel system size is 6.5 kW, anticipate spending around $3,900 for the panels ...



Solar (photovoltaic) panel prices

IRENA presents solar photovoltaic module prices for a number of different technologies. Here we use the average yearly price for technologies 'Thin film a-Si/u-Si or ...

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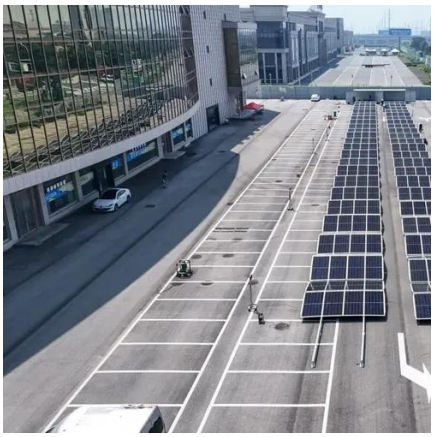
Understanding solar costs means looking beyond sticker prices. Right now, systems average about $2.53 per watt before incentives. But this number varies depending on ...



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