Solar360 Mobile Energy

Cost of solar panels installation by state

Overview

Explore 2025 solar panel installation costs by state, from $2.13/W in Texas to $3.14/W in West Virginia. Learn how the Federal Solar Tax Credit and state incentives can save you thousands on solar energy systems.

The cost of solar panels depends mainly on system size, equipment quality, installation complexity, location and available incentives. Financing solar panels might be a good idea if your loan payments are less than your power bill. A small residential solar panel system costs around $14,210 before.

Average prices found through the Solar.com platform have been lower than market prices in a majority of the states according to data procured from the National Renewable Energy Laboratory. Here's a precise breakdown of the cost to go solar in different states. Solar.com's marketplace prices are.

Significant Regional Variations: Solar costs vary dramatically by state, from $2.10/W in Arizona and Texas to $3.65/W in Tennessee. Shopping in competitive markets like California, Florida, and Texas can save thousands compared to emerging markets. Strong Long-term Returns: Despite upfront costs.

It costs around $30,000 to install solar panels. That's a big number, but incentives usually lower it significantly. The average U.S. solar shopper needs about 11 kilowatts (kW) of home solar to cover their electricity usage. Based on thousands of quotes in the EnergySage Marketplace, you'll pay.

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.

According to 2025 data from EnergySage and the Solar Energy Industries

Association (SEIA), the national average cost for a 7.2 kW residential solar panel system is $18,144–$26,424 before incentives ($2.52–$3.67 per watt). After the 30% Federal Solar Tax Credit, costs drop to $12,701–$18,497. These. How much does a solar panel installation cost?

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, type, and quality. *Total cost may be lower with additional state and local incentives. Get free estimates from solar panel installers near you. Residential solar panel prices vary from state to state.

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.

Are solar panels expensive?

No, solar panels in the USA are not considered expensive. On average, a 6.6 kW solar panel system typically costs around $16,000, not considering government incentives and rebates. Solar panel costs in the US usually range from $4,500 to $36,000, or $1.00-$3.60 per watt (W).

How much do Solar shingles cost?

Solar panels are the most popular choice for solar energy, but they are not the only option. If your budget allows, solar shingles cost $4 to $14 per watt and look like traditional roof shingles, blending in better with the surroundings and offering a sleeker alternative to standard solar panels. Are solar panels worth it?

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Which states have the lowest solar prices?

We generally see this trend on EnergySage (though there are some outliers), with lower $/W pricing in warmer states and higher $/W pricing in colder states: Arizona has the lowest average cost of solar, while Wyoming and Nebraska have some of the highest prices.

How much does a 12 kW solar panel cost?

The average cost of a 12 kW solar panel installation on EnergySage is $20,754 after the federal tax credit. You'll probably save anywhere from $34,000-$120,000 over 25 years by going solar. Solar panels are just 12% of the total cost of a solar panel installation.
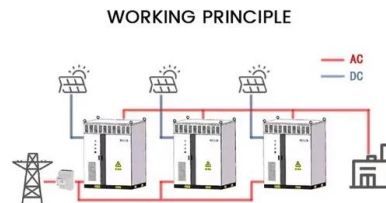
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[Solar Panel Installation Cost: A 2025 ROI Breakdown](#)

In 2025, more Americans than ever are thinking about solar energy. But many still ask the same question: "What does solar panel installation really cost?" The answer isn't always simple. ...

[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 ...

[How Much Do Solar Panels Cost? , Sunrun](#)

How much do solar panels cost in 2025? Updated 3/6/2025 Over the last ten years, the cost of installing solar panels has decreased by over 40% 1, fueling growth across new markets and deploying thousands of systems across the ...

Solar Panel Cost in 2025: Everything You Need to Know , Fixr

6 ???· Find out how much solar panels cost in 2025, from average prices to a full cost breakdown. Learn how to save money with the

federal tax credit and local incentives.

[How Much Does It Cost to Install Solar Panels? [2025 ...](#)

Solar panel installation costs an average of $27,173. Most homeowners spend between $3,500 at the low end and a maximum of $55,000 on a complete system. Where you live, the number of panels you need, ...

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