



# Cost of solar per kwh by state

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 do solar panels cost per kWh?

This typically ranges from 6-8 cents per kWh, compared to current grid electricity averaging 16.44 cents per kWh nationally. Most homes need between 7-12 kilowatts (kW) of solar capacity to offset their electricity usage. A typical American household consuming 10,632 kWh annually requires approximately 8-9 kW of solar panels.

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 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.

How much does electricity cost per kWh?

The average residential electricity rate in the U.S. is 17.47 cents per kilowatt-hour (kWh). The August Choose Energy Electricity Rates Report shows you the cost of electricity per kWh by state based on the latest electricity prices from the U.S. Energy Information Administration (EIA).

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.

Electricity rates by state: How much is electricity per month? In 2025, the average residential electric rate in the U.S. is about \$0.17 per kilowatt hour (kWh). However, this amount varies greatly depending on the region you live in and ...



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