

How much does 25 kilowatts of solar energy cost





Overview

How much does a 25 kW solar system cost?

As of January 2022, the average cost of solar in the U.S. is \$2.77 per watt - that comes out to \$69,250 for a 25-kilowatt system. That means the total 25 kW solar system cost would be \$51,245 after the federal solar tax credit discount (not factoring in any additional state rebates or incentives).

How many kilowatts does a solar system use?

Solar systems are sized in kilowatts (kW) and are typically designed to offset 100% of your average annual electricity usage. For reference, the average U.S. household consumes 10,000 kWh of electricity per year and, with average sunshine, would need a 7.5 kW solar system to offset their electricity charges. Is the price of solar panels falling?

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How much does a solar system cost in 2025?

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 considering the full federal solar tax credit.

How much does solar energy cost per kWh?

Cost per kWh shows the lifetime cost of solar electricity by dividing your net system cost by total expected energy production over 25 years. This typically ranges from 6-8 cents per kWh, compared to current grid electricity averaging 16.44 cents per kWh nationally.



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