



# Home solar panel array

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As subject matter experts, we provide only objective information. We design every article to provide you with deeply-researched, factual, useful information so that you can make informed home electrification and financial decisions. We have:

Sourced the majority of our data from hundreds of thousands of quotes through our own marketplace.

Incorporated third-party data and information from primary sources, government agencies, educational institutions, peer-reviewed research, or well-researched nonprofit organizations.

Built our own database and rating system for solar equipment, including solar panels, inverters, and batteries.

We won't charge you anything to get quotes through our marketplace. Instead, installers and other service providers pay us a small fee to participate after we vet them for reliability and suitability. To learn more, read about how we make money, our Dispute Resolution Service, and our Editorial Guidelines.

The solar array is the most important part of a solar panel system - it holds all the panels in your system, collects sunlight, and converts it into electricity. In this article, we'll share some common questions to ask yourself before installing a solar panel system on your home and ensure you get the most productive array possible.

A solar array is a collection of multiple solar panels that generate electricity.

A solar array facing south will have maximum output (though east or west-facing systems also provide ample energy).

The number of panels you need in your solar array will depend on factors like your electricity consumption, where you live, and the direction your roof faces.

Adding additional panels is possible, but it's easiest to right-size your system initially.

Visit the EnergySage Marketplace to get quotes from our network of pre-vetted installers for your solar array.

A solar array is a collection of multiple solar panels that generate electricity. When an installer talks about solar arrays, they typically describe the solar panels themselves and how they're situated - aka the entire solar photovoltaic, or PV system. To create solar energy, sunlight must hit your panels' photovoltaic cells. The sunlight sets electrons in motion, producing direct current (DC) electricity. Your array is connected to an inverter or multiple inverters, which convert the DC electricity generated by the solar cells in your panels into



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usable alternating current (AC) electricity.

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