

Solar panel home systems





Overview

What are the different types of solar panels?

Solar arrays include panels, inverters and mounting racks to complete a solar energy system. There are three primary types of solar panels, made from different types of solar cells: monocrystalline, polycrystalline or amorphous. Monocrystalline cells are comprised of a uniform silicone crystal.

What is a home solar system?

A home solar system, also known as residential solar, is a system that converts sunlight into usable energy for residential properties. It comprises solar panels, inverter (s), and a battery (optional) and is also connected to the main power grid. Solar panels are the heart of a home solar system and function by absorbing available sunlight.

What is a solar energy system?

Solar energy systems usually consist of a solar array and other equipment connected to the home and often the local power grid. A solar array is a group of solar or photovoltaic (PV) panels wired together to create an electrical power output. Solar arrays include panels, inverters and mounting racks to complete a solar energy system.

How do solar panels work?

When sunlight hits the panels, it creates an electric current that is first used to power electrical systems in your home. If your panels are producing more electricity than your home is using, the excess is stored in a battery and/or pushed onto the local energy grid to power your neighbors' homes.

Does a home solar system have a backup battery?

A home solar system with an added backup battery can keep the lights on, even when the grid goes down. When solar panels generate more energy than a homeowner can use, that extra energy has to go somewhere.



How do I choose the best solar panels for my home?

The best solar panels for you are going to be the ones that fit your energy goals and budget. There are also many factors you'll have to consider before moving forward with your installation, including the size of your roof and the energy consumption of your home.



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Your Guide to Home Solar Panels

Whether you're looking to shrink your carbon footprint or just your monthly expenses, there's never been a better time to go solar. Keep reading for the lowdown on everything from current tax incentives to new tech choices.

[Homeowner's Guide to Going Solar . Department of Energy](#)

You may be considering the option of adding a solar energy system to your home's roof or finding another way to harness the sun's energy. While there is not a universal solar energy solution, ...

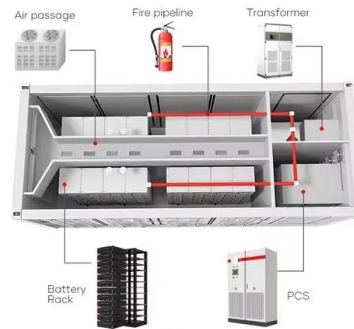


[A Pro Guide to Installing Solar Panels](#)

A Pro Guide to Installing Solar Panels Solar power is an increasingly popular option for homebuyers who want to cut their energy bills, reduce their carbon footprint or both. Whether you're a home builder or a ...

[Planning a Home Solar Electric System](#)

Purchasing a solar energy system with cash or a loan is the best option when you want to maximize the financial benefits of installing solar panels, take advantage of tax credits, and increase the market value of your home, and ...



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