



# Household solar power generation complements the mains electricity

How do I choose the best way to use solar electricity?

Before deciding on the best way to use solar electricity at home, assess the potential solar energy that can be produced at your address. Because PV technologies use both direct and scattered sunlight to create electricity, the solar resource across the United States is ample for home solar electric systems.

Do solar panels work with a power grid?

Most residential solar systems are designed to work in conjunction with the existing power grid. Grid-tied systems allow you to draw power from the grid when your solar panels aren't producing enough electricity. If your solar panels produce more energy than your home requires, you may even be able to sell excess energy back to the grid.

Should you choose solar energy for your home?

Before starting the process of powering your home with solar energy, homeowners should investigate their energy use and consider potential efficiency upgrades. Homeowners should be well aware of their total electricity usage, and consider low-cost and easy-to-implement efficiency measures before choosing solar.

Why do solar panels need to be connected to the grid?

The simple answer is that remaining connected to the grid allows your home to draw additional power when solar panels can't generate enough electricity, including nights and cloudy days.

What are the different types of solar power systems?

Homeowners can choose from three main types of solar power systems: Grid-tied solar system: Grid-tied systems include a solar inverter that connects directly to the utility grid, which directs surplus energy back to the grid. Hybrid solar system: Hybrid systems connect to the grid and a battery system.

What is a residential solar system?

Most residential solar systems are designed to supplement your home's energy needs. This approach reduces your reliance on traditional energy sources while maintaining a reliable power supply.

According to many renewable energy experts, a small "hybrid" electric system that combines home wind electric and home solar electric (photovoltaic or PV) technologies offers several advantages over either single system. In much of ...



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