

## Solar photovoltaic panels on the house



### Overview

Solar power has many applications, from powering calculators to cars to entire communities. It even powers space stations like the Webb Space Telescope. But most people are concerned about how solar panels can power their house and reduce their electricity bill. Here's a step-by-step. Solar panels turn sunlight into electricity through the photovoltaic (PV) effect, which is why they're often referred to as PV panels. The. Most home solar systems are “grid-tied” meaning that the solar system, home electrical system, and local utility grid are all interconnected, typically through the main electrical service panel. Connecting these systems means you can power your home with solar. The most common residential solar panels contain monocrystalline or polycrystalline(also called multicrystalline) solar cells. Both. It is important that your solar panels receive good insolation (sun exposure) throughout the day and are free from as much shading from trees or neighboring obstructions as.



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