

Two degrees of electricity outdoor power solar energy





Overview

What is solar energy?

Solar power is energy from the sun that is converted into thermal or electrical energy. Solar energy is the cleanest and most abundant renewable energy source available, and the U.S. has some of the richest solar resources in the world.

How does solar energy work?

The solar industry has seen remarkable growth, creating thousands of jobs and driving innovation in renewable energy solutions. The process by which solar energy operates involves the conversion of sunlight into electricity through solar panels. These panels capture solar irradiance and generate electrical energy from sunlight.

How can solar energy be harnessed?

There are three main ways to harness solar energy: photovoltaics, solar heating & cooling, and concentrating solar power. Photovoltaic (PV) devices generate electricity directly from sunlight via an electronic process that occurs naturally in certain types of material, called semiconductors.

What are the different types of solar energy systems?

There are several types of solar energy systems developed to address a range of energy requirements. These systems are primarily categorized into on-grid and off-grid configurations, each employing distinct solar technologies to maximize energy generation efficiency. On-grid systems connect to the utility grid, facilitating net metering.



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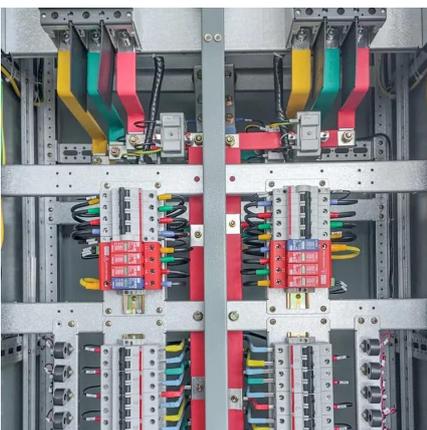
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