

# About solar panels





## Overview

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How do solar panels produce electricity?

**Solar Energy Capture:** When sunlight hits a solar panel, the energy from the light particles (photons) is absorbed by the silicon cells. **Electrons Get Excited:** Absorbed energy excites the silicon atoms, causing electrons to break free and move. This movement creates an electric current.

What are the benefits of solar panels?

Here are some of the key advantages of solar panels: Solar panels generate clean, renewable energy from the sun, reducing our reliance on fossil fuels and helping to combat climate change. They produce no greenhouse gas emissions or air pollutants, making them an environmentally friendly energy solution.

What do you need to know about solar panels?

Let's explore everything you need to know about solar panels, from their history to benefits. What is a Solar Panel?

A solar panel converts sunlight into electricity using photovoltaic (PV) cells. These panels are made of semiconductor materials, typically silicon, which absorb sunlight and generate an electrical charge.

How do solar panels work?

The flow of electricity results from the characteristics of the semiconductors and is powered entirely by light striking the cell. The main component of a solar panel is a solar cell, which converts the Sun's energy to usable electrical energy. The most common form of solar panels involve crystalline silicon -type solar cells.



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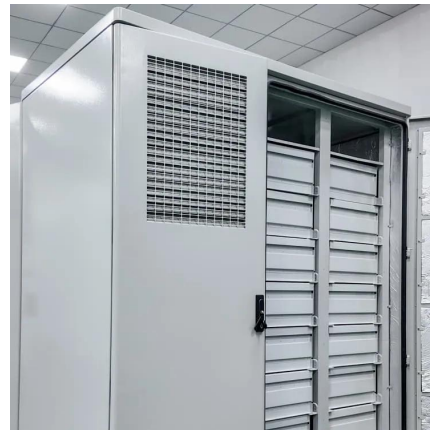
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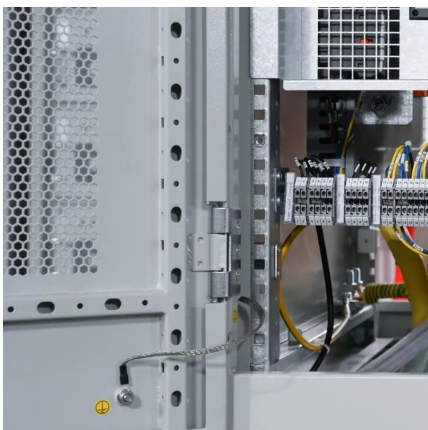
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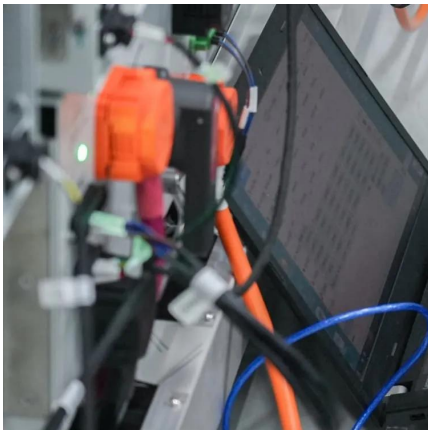
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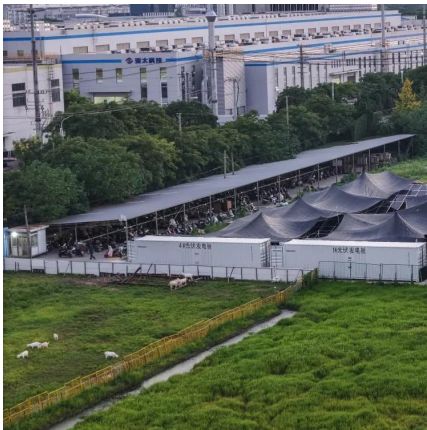
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This guide has all the basics you need to know about solar, including how solar energy is produced and how solar panels are made.

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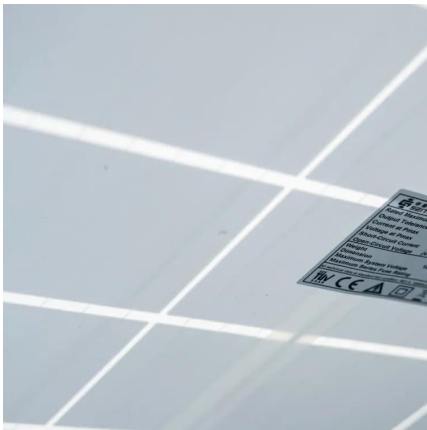


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