

# What principle does solar energy use to generate electricity



## Overview

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The photovoltaic effect is the underlying principle for converting solar energy into electricity, occurring in solar panels made from semiconductor materials. Below, you can find resources and information on the. Solar radiation may be converted directly into solar power (electricity) by solar cells, or photovoltaic cells. In such cells, a small electric voltage is generated when light strikes the junction between a metal and a semiconductor (such as silicon) or the junction between two different. Economically solar energy creates jobs, stimulates innovation, and reduces reliance on finite fossil fuels, contributing to energy security. It's a renewable energy source derived from sunlight, which is abundant and consistent in most regions globally.

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### How Does Solar Work?

When the sun shines onto a solar panel, energy from the sunlight is absorbed by the PV cells in the panel. This energy creates electrical charges that move in response to an internal electrical field in

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### How do solar panels work? Solar power explained

At a high level, solar panels are made up of solar cells, which

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### Solar energy

Photovoltaic cells commonly known as solar panels, convert sunlight directly into electricity by utilizing the photoelectric effect. These cells are typically made of semiconductor

## Solar power

Solar power, also known as solar electricity, is the conversion of energy from sunlight into electricity, either directly using photovoltaics (PV) or indirectly using



## How Is Solar Energy Generated Step-by-Step? A

Photovoltaic technology converts sunlight directly into electricity. Photons from sunlight strike PV cells, exciting electrons and creating an electric current.

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