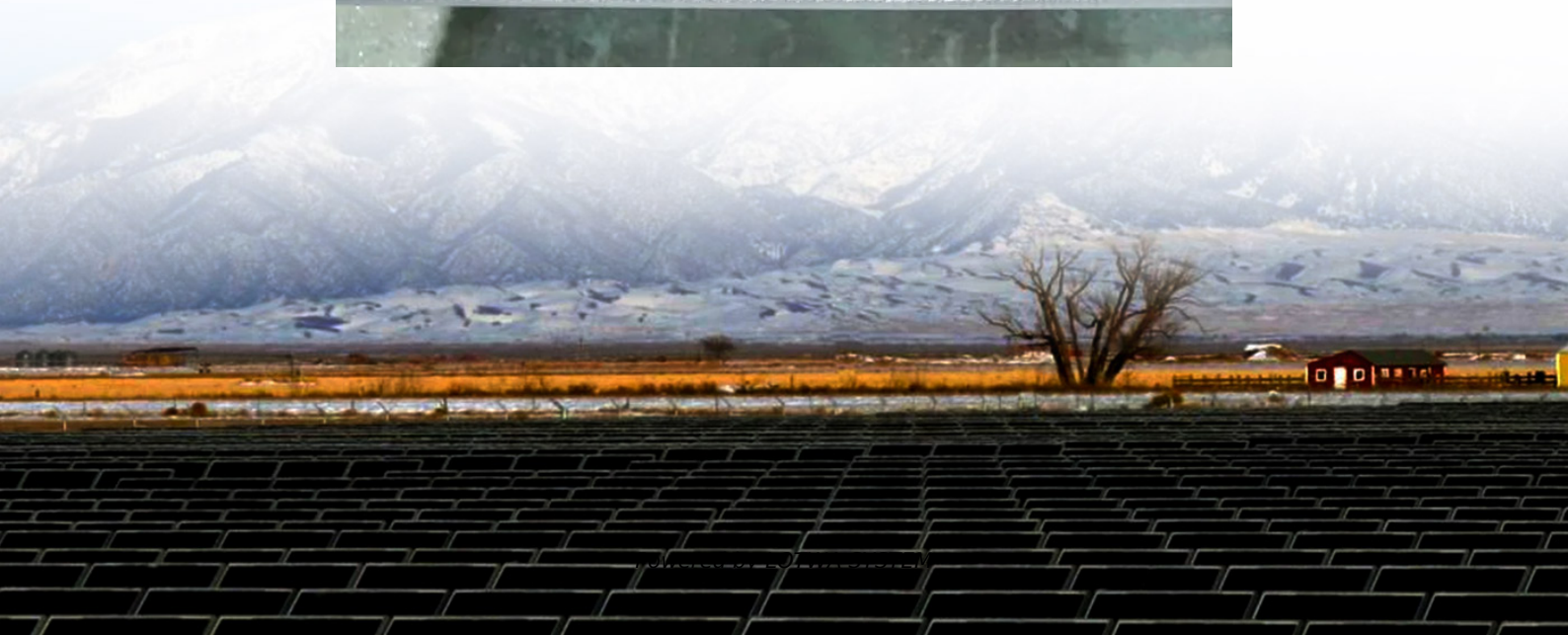


# Solar panels solar power generation directly used





## Overview

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Solar photovoltaic (PV) power generation is the process of converting energy from the sun into electricity using solar panels. Solar panels, also called PV panels, are combined into arrays in a PV system.

What is solar photovoltaic (PV) power generation?

Solar photovoltaic (PV) power generation is the process of converting energy from the sun into electricity using solar panels.

How does solar energy generation work?

Solar energy generation follows a structured process to transform sunlight into usable electricity. Each step is essential for efficient energy conversion and distribution. Photovoltaic (PV) cells within solar panels absorb sunlight.

How do solar photovoltaic cells work?

Solar photovoltaic cells are grouped in panels, and panels can be grouped into arrays of different sizes to power water pumps, power individual homes, or provide utility-scale electricity generation. Source: National Renewable Energy Laboratory (copyrighted).

How do solar panels produce electricity?

Photovoltaic (PV) cells within solar panels absorb sunlight. When sunlight hits the cells, photons from the light energize electrons in the semiconductor material, creating an electric field. This marks the start of electricity production. The energized electrons flow through the PV cells, generating direct current (DC) electricity.



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