

SolarTech Power Solutions

Power generation and solar panels



Overview

Solar power, also known as solar electricity, is the conversion of energy from sunlight into electricity, either directly using photovoltaics (PV) or indirectly using concentrated solar power. Photovoltaics use the photovoltaic effect to convert light into an electric current. Concentrated solar power systems use lenses or mirrors and systems to focus a large area of sunlight to a hot spot, often.

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. PV systems can also be installed in grid-connected or off-grid (stand-alone).

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A photovoltaic (PV) cell, commonly called a solar cell, is a nonmechanical device that converts sunlight directly into electricity. Some PV cells can convert artificial light into electricity. Sunlight is composed of photons, or particles of solar energy. These photons contain varying amounts of energy.

The first three concentrated solar power (CSP) units of Spain's Solnova Solar Power Station in the foreground, with the PS10 and PS20 solar power towers in the background. Solar power, also known as solar electricity, is the conversion of energy from sunlight into electricity, either directly using photovoltaics or indirectly using concentrated solar power.

Explore the latest solar market insights and policy updates in all 50 states and Washington, D.C. All market data is current through Q2 2025. The Solar Energy Industries Association (SEIA) is leading the transformation to a clean energy economy. Learn more at seia.org

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