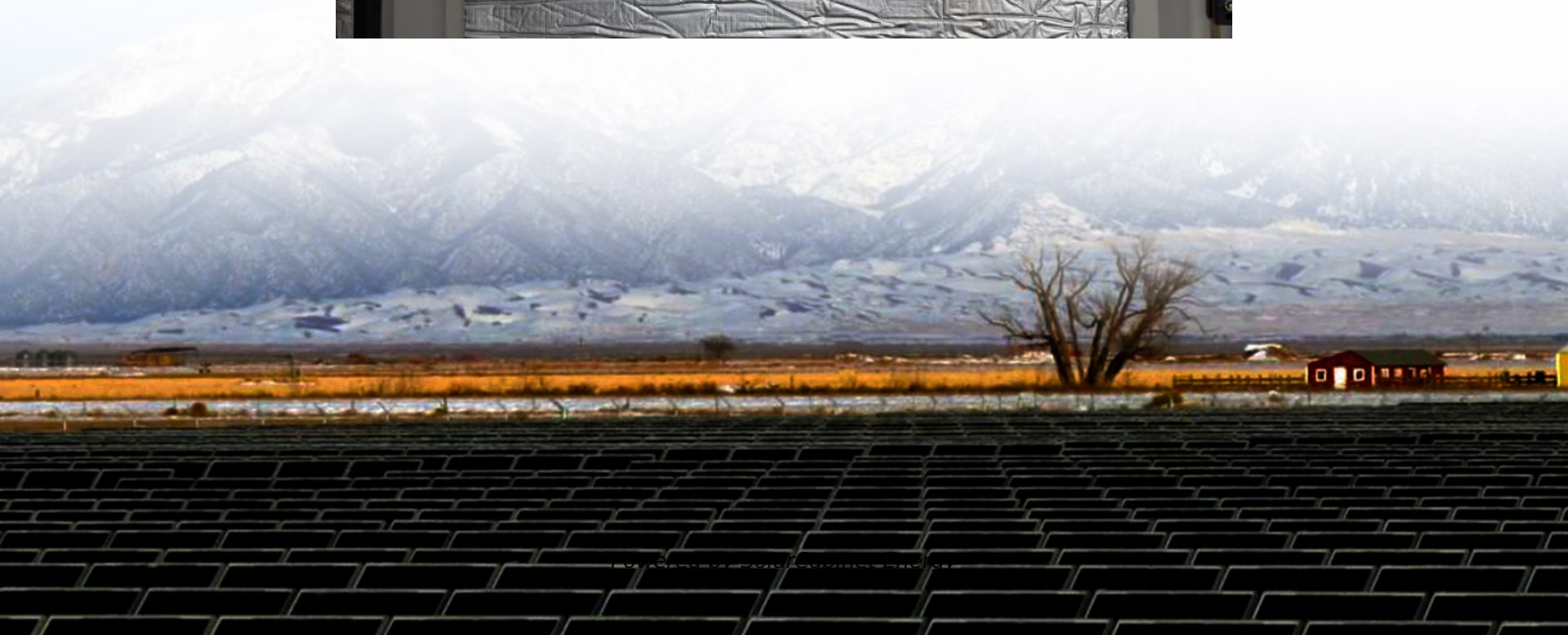


Solar Photovoltaic





Overview

A photovoltaic system employs solar modules, each comprising a number of solar cells, which generate electrical power. PV installations may be ground-mounted, rooftop-mounted, wall-mounted or floating. The mount may be fixed or use a solar tracker to follow the sun across the sky.

Photovoltaics (PV) is the conversion of into using that exhibit the , a phenomenon studied in , , and . The photovoltaic effect.

Photovoltaics are best known as a method for generating by using to convert energy from the sun into a flow of electrons by the .Solar cells produce direct current electricity from.

Overall the manufacturing process of creating solar photovoltaics is simple in that it does not require the culmination of many complex or.

The term "photovoltaic" comes from the φῶς (phōs) meaning "light", and from "volt", the unit of electromotive force, the .

In 1989, the German Research Ministry initiated the first ever program to finance PV roofs (2200 roofs). A program led by Walter Sandtner in Bonn, Germany.In 1994, Japan.

Module performance is generally rated under standard test conditions (STC): of 1,000 , solar of .

There have been major changes in the underlying costs, industry structure and market prices of solar photovoltaics technology, over the.



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