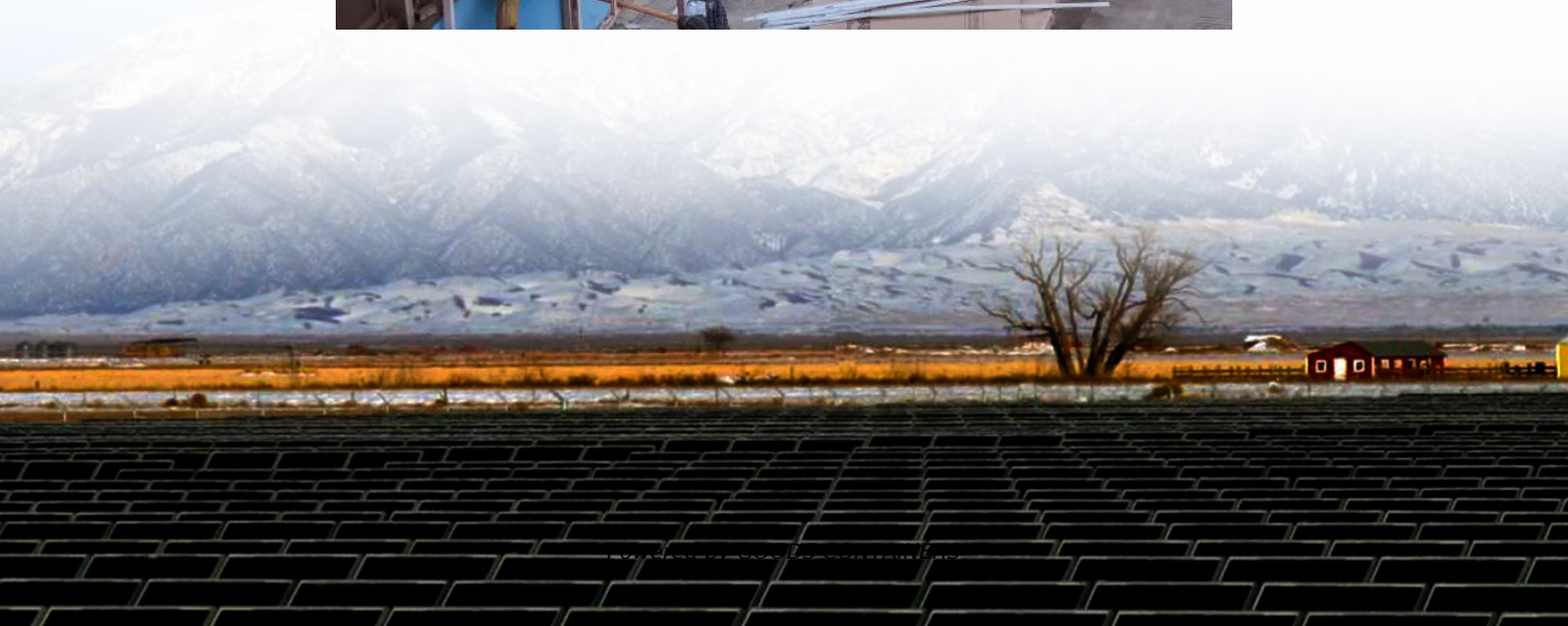


Solar module thin film





Overview

thin-film solar cell, type of device that is designed to convert light energy into electrical energy (through the photovoltaic effect) and is composed of micron-thick photon -absorbing material layers deposited over a flexible substrate. What is a thin-film solar cell?

Thin-film solar cell, type of device that is designed to convert light energy into electrical energy (through the photovoltaic effect) and is composed of micron-thick photon-absorbing material layers deposited over a flexible substrate. Learn more about thin-film solar cells in this article.

Who invented thin-film solar panels?

The idea for thin-film solar panels came from Prof. Karl Böer in 1970, who recognized the potential of coupling thin-film photovoltaic cells with thermal collectors, but it was not until 1972 that research for this technology officially started.

How do thin-film solar panels work?

However, in terms of how they work, thin-film solar panels are no different from their traditional counterparts. Like silicon wafers, the semiconductor material layered on top of the substrate uses the photovoltaic effect to convert light energy into electrical energy.

What material is used for thin-film solar panels?

Cadmium telluride (CdTe) is the most popular material for manufacturers of thin-film solar panels. Using the EnergySage Marketplace, you can choose from various solar panel installers who can work with different types of thin-film and regular panels. What are thin-film solar panels?



Solar module thin film



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