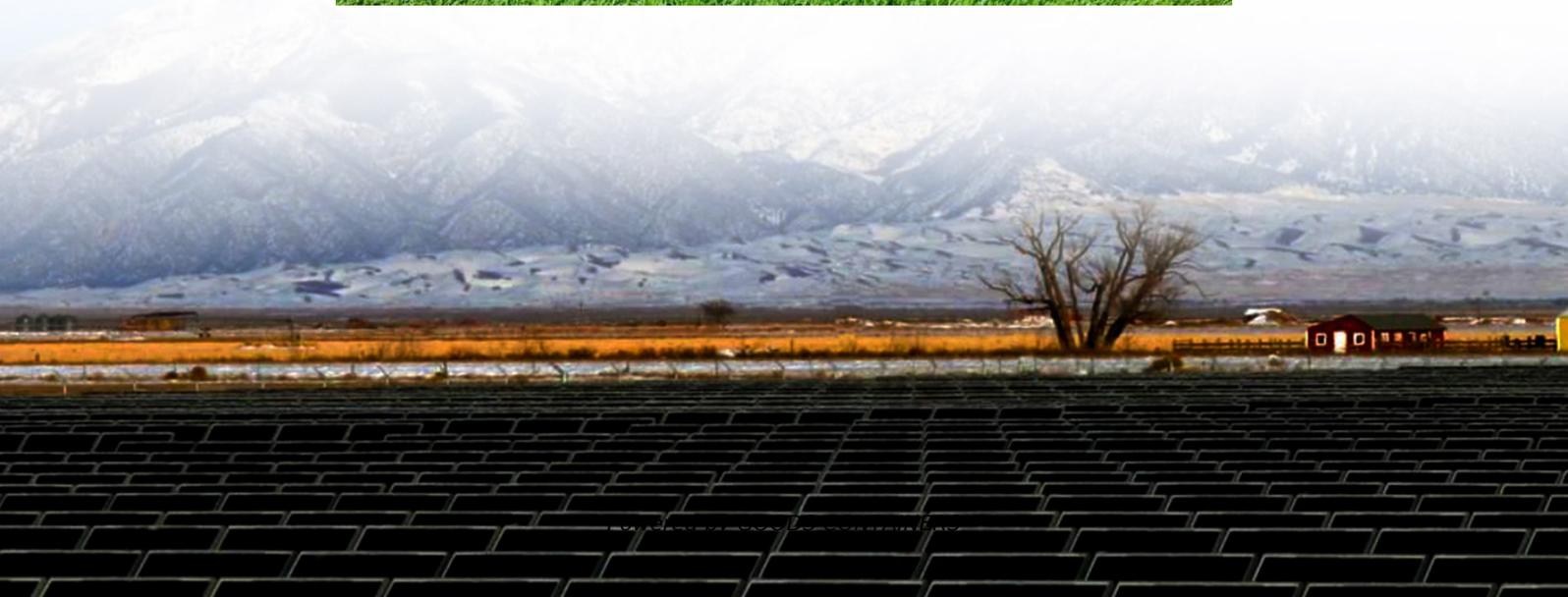


Thin-film flexible solar panels





Overview

What are thin-film solar panels?

Thin-film solar panels use a 2nd generation technology varying from the crystalline silicon (c-Si) modules, which is the most popular technology. Thin-film solar cells (TFSC) are manufactured using a single or multiple layers of PV elements over a surface comprised of a variety of glass, plastic, or metal.

What are flexible solar panels?

Along with rapidly advancing battery technology, flexible solar panels are expected to create niche products that require lightweight, mechanical flexibility, and moldability into complex shapes, such as roof-panel for electric automobiles, foldable umbrellas, camping tents, etc.

What are thin-film solar cells used for?

In the late 1970s, amorphous silicon thin-film solar cells were first used for powering hand-held calculators. Thin-film solar-cell modules are lightweight and flexible as compared with modules built by traditional crystalline silicon cells.

How thick is PowerFilm solar panels?

The substrate is as thin as 1mil (0.025mm) thick. Amorphous silicon is the absorber layer in the solar panels. The amount of silicon used in PowerFilm solar panels is as low as 1 percent of the amount used in traditional solar panels. PowerFilm has a strong environmental profile and is cadmium free.



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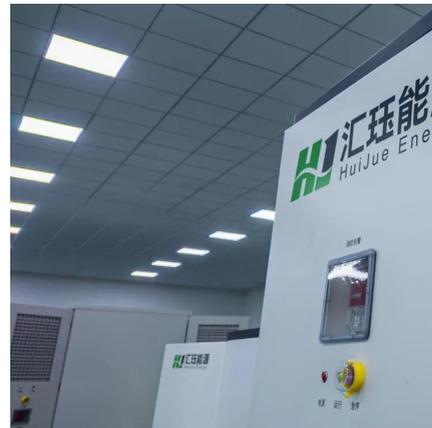


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