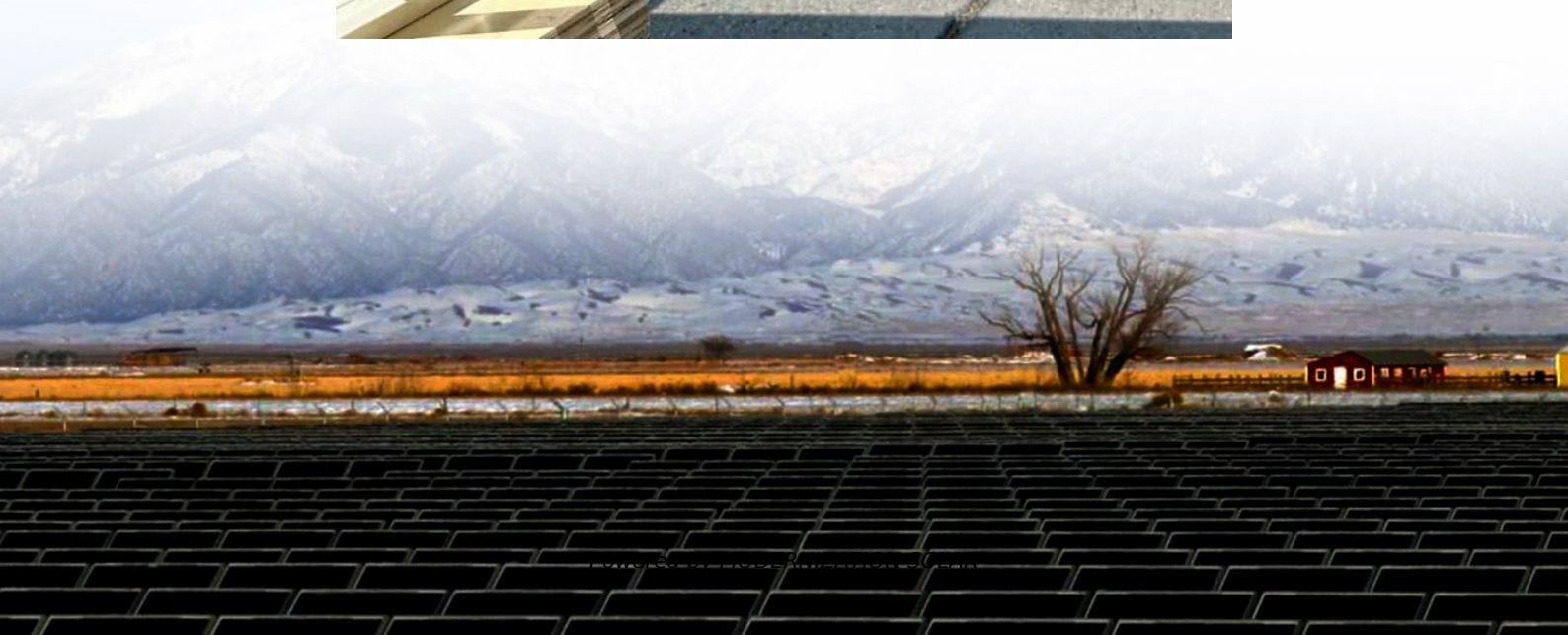


# **Bipv thin film solar modules**





## Overview

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Are thin-film PV cells a viable option for BIPV systems?

However, thin-film PV cells were rapidly identified as being of interest for BIPV systems since their semi-transparency in the visible spectrum allowed for a wide range of building integration possibilities . Currently, several emerging PV technologies are evolving and some of them can be produced at a very low cost .

What is building integrated photovoltaic (BIPV)?

One application starting to become widely popular worldwide is the Building-Integrated Photovoltaic (BIPV) highly dependent on thin-film solar technology. There are two main branches of this technology, solar shingles or solar roof tiles, and solar windows or solar glass.

What is a BIPV module?

A BIPV module is a photovoltaic (PV) module and a construction product at the same time, mainly designed to be a multifunctional component of the building skin. PV modules generate renewable electricity by directly converting solar radiation into direct current (DC) using semiconductor materials.

Can thin film solar modules be customized?

Up to now the serial interconnection using laser scribes after single deposition steps remains the standard for thin film solar modules. A panel-on-demand procedure for refinement of semi-fabricates to customized modules was proposed to allow for flexible design of building integrated thin-film photovoltaics.



## Bipv thin film solar modules

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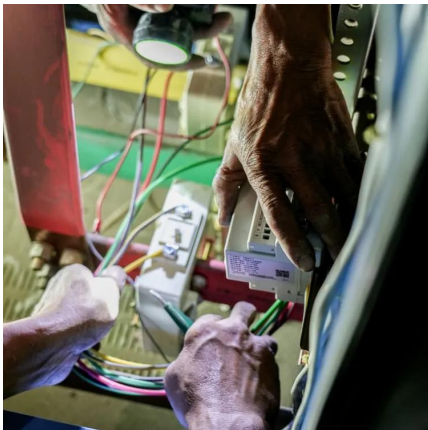






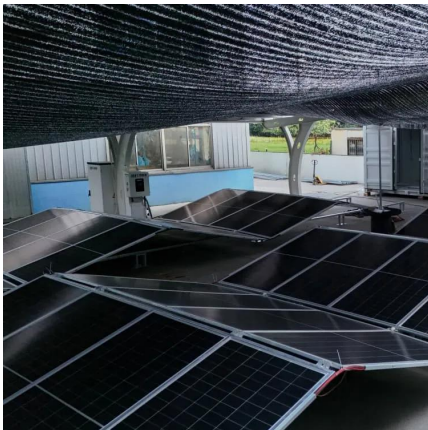
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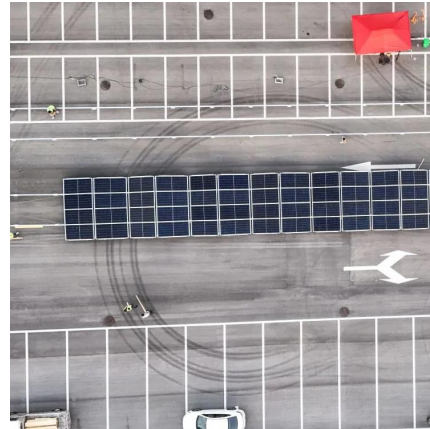
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