



# Patents about photovoltaic panels





## Overview

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The objective of this article is to identify the technological development of photovoltaic cells by the analysis of patents. The Derwent Innovations Index (DII) database of Thomson Derwent was used for this.



## Patents about photovoltaic panels

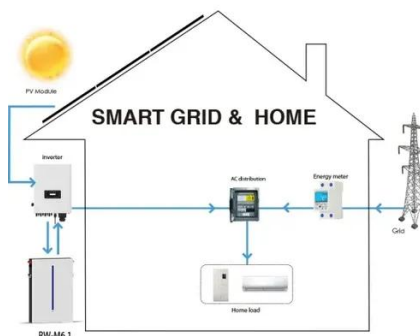


### Microsoft Word

Executive Summary This report describes the results of an analysis tracing the technological influence of photovoltaics (PV) research funded by the U.S. Department of Energy ...

### Solar Power: An Overview of the Patent Landscape

The role of renewable energy in global power generation is growing -- particularly for solar power. Thanks to increasing innovation and decreasing costs, global solar capacity has ...



### AGGREGATED PHOTOVOLTAIC PANELS

Photovoltaic panels may be aggregated in various ways and may be aggregated with the use of a backplane where the backplane comprises electrical connectors positioned to electrically ...



### Uncovering emerging photovoltaic technologies based on patent ...

The technological knowledge basis of this route is constituted by patents on solar cells with an integrated diode and bypass method, passing through photovoltaic panels with individually ...



## Uncovering emerging photovoltaic technologies based on patent ...

Photovoltaic panels, commonly known as solar panels, play a pivotal role in the conversion of sunlight into electricity, forming the backbone of solar power generation [4].



## [U.S. Patent Application for DOUBLE-SIDED PHOTOVOLTAIC \(PV...](#)

The present invention relates to the field of solar panels or photovoltaic (PV) panels, and more particularly to a double-sided PV panel for increased electrical efficiency.



## System of photovoltaic solar panels

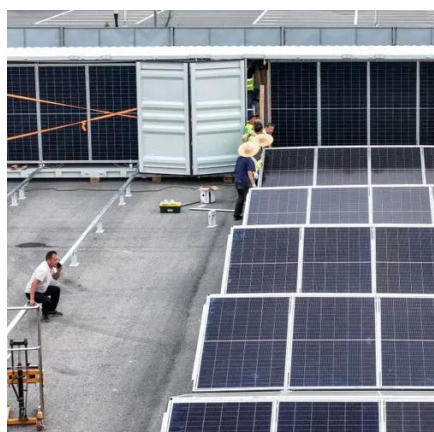
A system of photovoltaic solar panels comprises a plurality of photovoltaic solar panels and a supporting structure provided for supporting the photovoltaic solar panels in a number of rows ...

## Global disputes over solar PV patents



## are on the rise this decade

Patent trends In 2021, the EPO and IEA reported that solar panels made up the largest volume of low-carbon energy technologies-related patents but the total number of patents was ...



## [Photovoltaic technologies: Mapping from patent analysis](#)

Photovoltaic technology has developed rapidly over the last thirty years. The main activities of photovoltaic patents began in the late 1950s and the main photovoltaic patent assignees at that ...

## What are the patents for solar energy new energy? , NenPower

Additionally, concentrated solar power (CSP) methods and photovoltaic (PV) advancements are often patented to protect unique technological innovations. Importantly, the ...





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