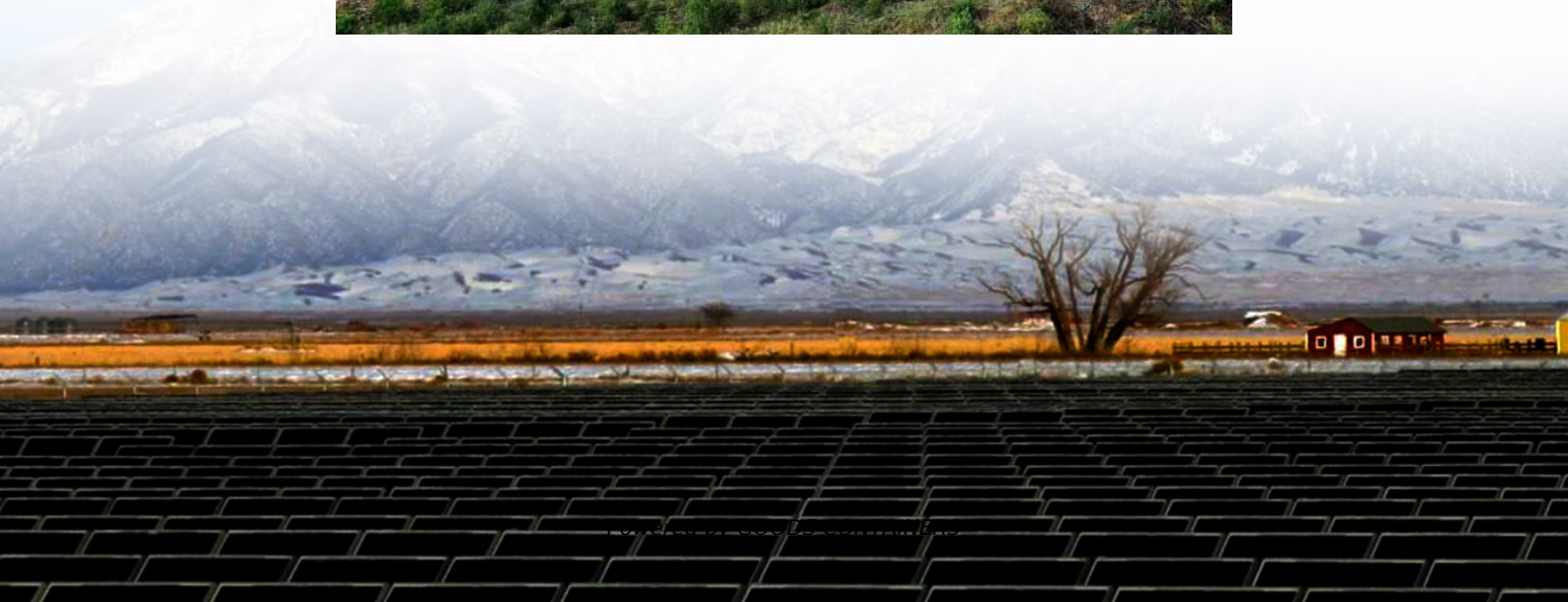


Global thin-film solar module production capacity





Overview

What is the global solar module manufacturing capacity?

Global solar module manufacturing capacity is set to exceed 1.5 TW by 2035, according to forecasts from the IEA. Its latest report, “ Energy Technology Perspectives 2024,” covers the production of solar, wind turbines, electric cars, batteries, electrolyzers, and heat pumps.

What is the market value of thin-film solar cells in 2023?

GlobalData estimates that global thin-film module capacity will reach 26.69GW and a market value of \$102.76bn in 2023. Considered second-generation solar cells, thin-film cells perform better in low-light and extreme temperatures, making them useful for specific applications.

How many solar panels will China produce in 2023?

In 2023, global production capacity is 1,115 GW. The IEA said China is expected to maintain its lead in solar production, but its global market share may decline slightly as manufacturing expands elsewhere and incentives drive growth.

What is the global solar photovoltaic (PV) module market value?

Source: [abriendomundo/Shutterstock.com](https://www.abriendomundo.com). The global solar photovoltaic (PV) module market has been growing at pace and is projected to rise to \$133.12bn in market value by 2028, according to Power Technology 's parent company, GlobalData.



Global thin-film solar module production capacity



[Global solar module manufacturing capacity ...](#)

Solar supply chain in China increased by 29% in 2024. Image: Avaada Group. Australian thinktank Climate Energy Finance (CEF) has forecast global solar module manufacturing capacity to reach 1.8TW

[IEA: Global photovoltaic module production ...](#)

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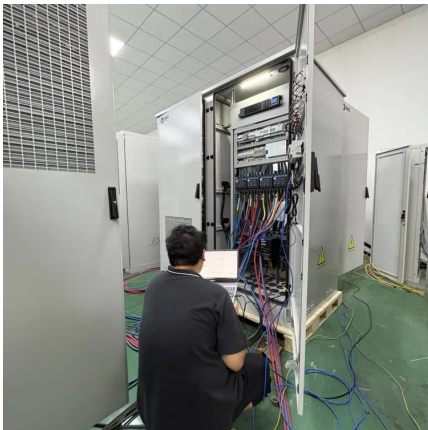
[Thin Film Solar Pv Modules Market Export Capacity, Size](#)

The global thin film solar photovoltaic (PV) modules market has experienced consistent growth driven by technological advancements, declining manufacturing costs, and ...



[The Global Thin Film Photovoltaics Market 2025-2035](#)

First Solar's manufacturing capacity exceeds 9 GW annually, with plans to expand to 16 GW by 2026, demonstrating continued confidence in thin film's market viability.



[Photovoltaic \(PV\) manufacturing capacity](#)

...

Global solar module manufacturing capacity is set to exceed 1.5 TW by 2035, according to forecasts from the IEA. Its latest report, "Energy Technology Perspectives 2024," covers the production of solar, ...



[Solar PV manufacturing capacity and production by country ...](#)

Manufacturing capacity and production in 2027 is an expected value based on announced policies and projects. APAC = Asia-Pacific region excluding India and China.





Solar PV module market outlook 2025: ...

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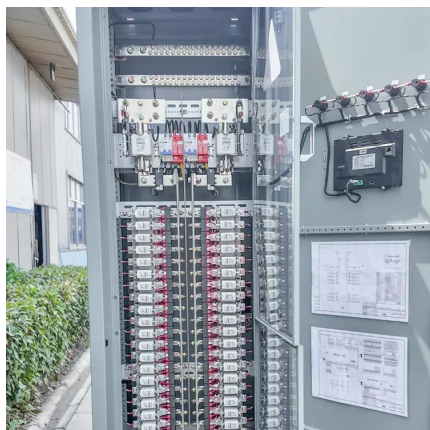


Solar PV module market outlook 2025: emerging trends and ...

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Photovoltaic (PV) manufacturing capacity could exceed 1.5

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