

# **World solar panel manufacturing capacity**



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### [Global solar module manufacturing capacity to reach 1.8TW in 2025 -](#)

Australian thinktank Climate Energy Finance (CEF) has forecast global solar module manufacturing capacity to reach 1.8TW by the end of the year. This would be triple the installations

### [Global solar manufacturing sector now at 50](#)

The International Energy Agency (IEA) says that global solar cell and module manufacturing capacity grew by around 550 GW in 2023.



### **SOLAR MANUFACTURING: BY THE NUMBERS**

20 Years: In less than two decades, Chinese-owned companies expanded their production of solar cells from less than 2% globally in 2004 to over 80% in 2024, achieving near-total market dominance in

### **Global solar PV supply chain**

To meet this growing demand, the solar manufacturing industry has experienced remarkable growth in the last few years, with global module manufacturing capacity increasing form





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

Solar PV manufacturing capacity and production by country and region, 2021-2027 - Chart and data by the International Energy Agency.

### Snapshot 2025

At least 554 GW of new PV systems were commissioned in 2024, possibly reaching 601.9 GW. China installed up to 357.3 GW, accounting for almost 60% of new global capacity. Outside China, 244.6



## [International Solar PV and BESS Manufacturing Trends](#)

The IEA itself projected that by 2030, the world would have 1,615GW of annual solar PV manufacturing capacity, with most developed in China - Figure 1.21. At a 60-70% capacity utilisation rate, this

## [Executive summary - Solar PV Global Supply Chains](#)

Global capacity for manufacturing wafers and cells, which are key solar PV elements, and for assembling them into solar panels (also known as modules), exceeded demand by at least 100% at



## [Top 10 Countries Leading Solar Panel Production 2025](#)

In the latest consolidated data, global PV module production reached 726 GW and manufacturing capacity reached 1,405 GW/year, with 83% of capacity located in China.

## [Where Are Solar Panels Made? Complete 2025 Global Manufacturing](#)

Discover where solar panels are manufactured globally. China leads with 77.8% production, but learn about quality, ethics, and alternatives in our comprehensive 2025 guide.



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