

Global photovoltaic cell module production capacity





Overview

Global solar module manufacturing capacity is projected to reach 1.8 TW by 2025, according to the International Energy Agency (IEA). This represents a significant increase from the current capacity of 1.3 TW and reflects the growing demand for solar energy worldwide. What is the global solar module manufacturing capacity?

Image: International Energy Agency 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 global solar PV manufacturing capacity?

Home Insights Global Solar PV Manufacturing Capacity Projected to Hit 1,100 GW by 2024. Representational image. Credit: Canva.

How will the global solar module manufacturing capacity grow by 2025?

The global solar module manufacturing capacity is set to rise from 1.3 TW per year to 1.8 TW per year by 2025, as per the IEA. This marks a significant increase from previous estimates, and highlights the dynamic growth of the industry. Importantly, 75% of the planned expansions are already under construction or in development.

What was the global PV production capacity in 2023?

Accessed March 21, 2024 ; EIA “Annual Energy Outlook 2023.” Accessed March 21, 2024. At the end of 2023, global PV manufacturing capacity was between 650 and 750 GW. 30%-40% of polysilicon, cell, and module manufacturing capacity came online in 2023. In 2023, global PV production was between 400 and 500 GW.

What is the global demand for solar modules?



The report forecasts that global demand for solar modules will grow from 460 GW in 2023 to 674 GW in 2035, at an average growth rate of 3% per year, to 724 GW in 2050 under STEPS. Under APS, global solar module demand is expected to reach 860 GW by 2035 and 894 GW by 2050.

How many solar modules will the US produce in 2025?

CEF estimates that at the end of 2025, the US will have an annual nameplate production of 55-60GW for solar modules, assuming nearly 10GW of manufacturing proposal cancellations.



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[India: The Rising Power in Global Solar Photovoltaic Supply Chains](#)

In March 2023, India had 6.6 GW of production capacity for solar cells, representing less than 1 percent of global production capacity for solar cells. Current Indian companies ...

[US solar manufacturing soars, but gaps and uncertainty persist](#)

US solar panel production capacity has more than quintupled since President Joe Biden signed the Inflation Reduction Act in August 2022, according to industry and federal government data, ...



[Regional distribution of solar PV cell production, Statista](#)

In 2023, China was the leading country in terms of solar photovoltaic cell production, with a share of almost 92 percent of global output, and the closest competitor, Malaysia, holding a mere 2.3

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