

Solar cell module 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 current operating capacity of the solar industry?

Solar Modules: Currently operating at 51.7 GW with an additional 17.5 GW under construction. Solar Cells: Operating capacity stands at approximately 2 GW while undergoing expansion by an additional 11.8 GW. Wafers & Ingots: Each segment is seeing growth with around 3.3 GW under construction; initial operations are anticipated by late-2025.

How has global solar PV manufacturing capacity changed over the last decade?

Global solar PV manufacturing capacity has increasingly moved from Europe, Japan and the United States to China over the last decade. China has invested over USD 50 billion in new PV supply capacity – ten times more than Europe – and created more than 300 000 manufacturing jobs across the solar PV value chain since 2011.

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.



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As of December 2025, SEIA estimates that the US solar module manufacturing capacity has exceeded 60 GW, with additional capacity either announced or under construction. With the ...



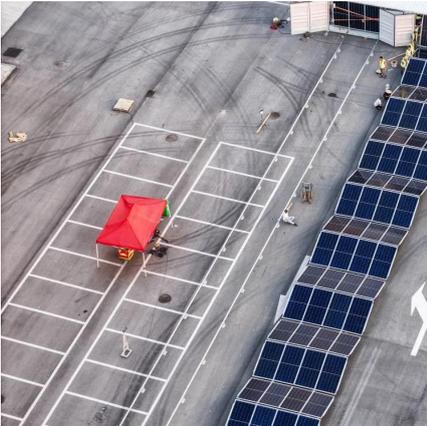
[US solar module capacity exceeds 50 GW. industry reports](#)

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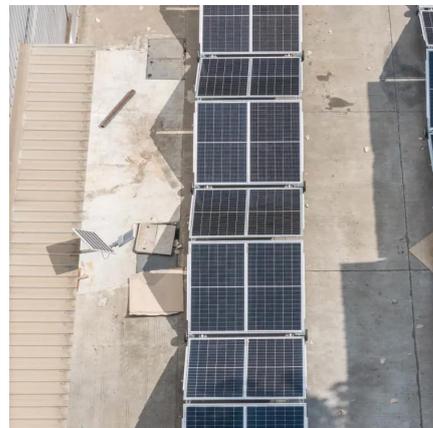
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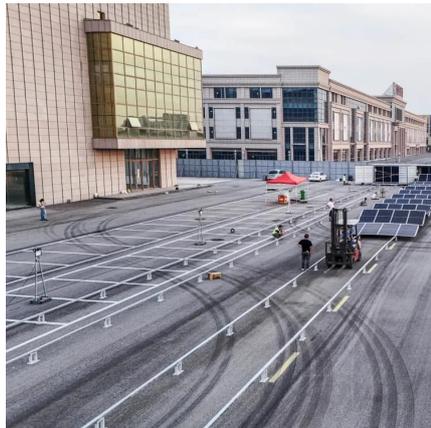
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