

# **Solar cell capacity and module capacity**





## Overview

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How big is India's solar cell manufacturing capacity?

Cell manufacturing capacity is projected to grow from 15 GW to 120 GW. India's solar module manufacturing capacity is set to rise significantly, reaching 160 GW by 2030—up from 80 GW in 2025. Solar cell manufacturing capacity is projected to grow from 15 GW to 120 GW.

Will India's solar module manufacturing capacity grow in 2025?

A new report by SolarPower Europe, with India-specific projections contributed by the National Solar Energy Federation of India (NSEFI), projects India's solar module manufacturing capacity to increase significantly from 80 GW in 2025 to 160 GW by 2030. Cell manufacturing capacity is projected to grow from 15 GW to 120 GW.

What is the global solar cell and module manufacturing industry's utilization rate?

The global solar cell and module manufacturing industry is currently operating at a utilization rate of approximately 50%, according to the IEA's Advancing Clean Technology Manufacturing report. It said that global investments in new solar factories amounted to \$80 billion in 2023 alone, which is two times more than in 2022.

How many solar modules are there in India in 2024?

India added 11.3 GW of solar modules and 2 GW of cell manufacturing capacity in the first half (1H) of 2024, according to Mercom India's recently released research report, State of Solar PV Manufacturing in India 1H 2024.



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### Global solar module manufacturing capacity to reach 1.8TW ...

Mar 24, 2025 · News Global solar module manufacturing capacity to reach 1.8TW in 2025 - report By Jonathan Touriño Jacobo March 24, 2025 Manufacturing, Cell Processing, Fab & Facilities, ...

### India Adds 25.3 GW of Module Capacity, 11.6 GW of Cells in ...

Apr 10, 2025 · In 2024, India significantly expanded its solar manufacturing capabilities, adding 25.3 gigawatts (GW) of solar module capacity and 11.6 GW of cell production capacity, as ...



### [Robust Solar Project Pipeline Drives India's ...](#)

Oct 8, 2024 · Monocrystalline passivated emitter and rear cell (mono PERC) modules comprised most of the country's production capacity, followed by ...

### India has 171GW/279GW solar cell and module manufacturing capacity

Oct 2, 2025 · The Indian solar industry has 86GW and 182GW of solar cell and module manufacturing capacity, respectively, expected to be commissioned by 2027.



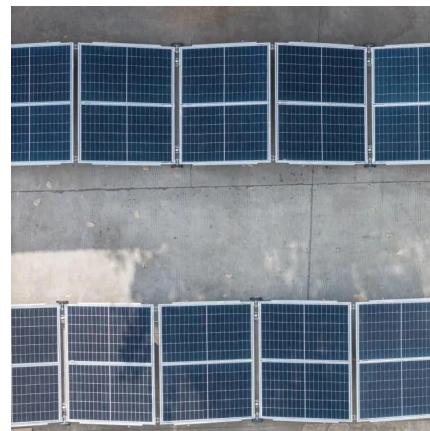
**IEA: Global PV capacity utilization rate of only 50%, module ...**

May 13, 2024 · The International Energy Agency (IEA)'s newly released "Advancing Clean Technology Manufacturing" report points out that the current global solar cell and module ...



**Robust Solar Project Pipeline Drives India's Module Manufacturing Capacity**

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

May 7, 2024 · The International Energy Agency (IEA) says that global solar cell and module manufacturing capacity grew by around 550 GW in 2023. ...





### India to reach 160 GW of solar module capacity, 120 GW of cells ...

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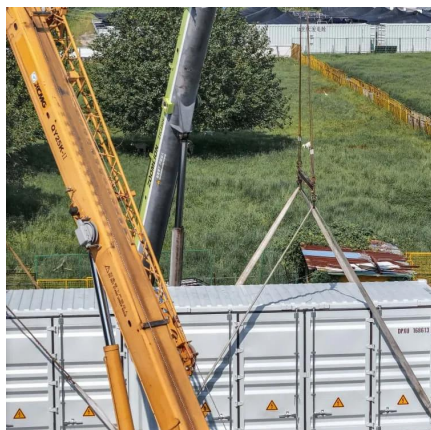


### Solar PLI Boosts India's Manufacturing, Faces Structural ...

2 days ago · India's Production Linked Incentive (PLI) scheme for high-efficiency solar photovoltaic (PV) modules has driven a sharp jump in domestic manufacturing capacity

### [Waaree Energies hits 22.3 GW global solar module capacity](#)

21 hours ago · Waaree Energies has achieved an aggregate solar module manufacturing capacity of around 22.3 GW globally, comprising 19.7 GW in India and 2.6 GW in the United States, ...



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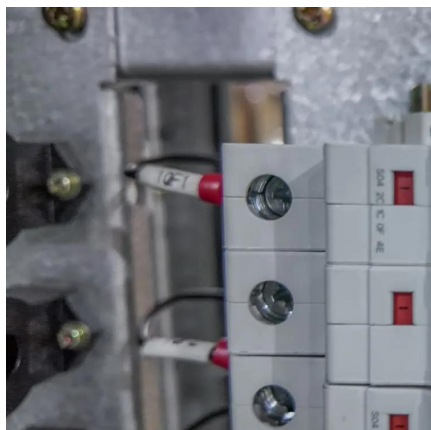


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