

Solar capacity of india 2025





Overview

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India's solar power sector has witnessed an extraordinary 3450 % increase in capacity over the past decade, rising from 2.82 GW in 2014 to 100 GW in 2025. As of January 31, 2025, India's total solar capacity installed stands at 100.33 GW, with 84.10 GW under implementation and an additional 47.49.

In the April-June quarter alone, 11.3 GW of solar capacity was commissioned, up 66.9 per cent from 6.8 GW in the previous quarter and 145.4 per cent higher than 4.6 GW in Q2 2024. New Delhi: India added 18 gigawatt (GW) of solar power capacity in the first half (H1) of 2025, a 31 per cent increase.

For the full calendar year, India is projected to add 39GW of solar capacity. Image: Solar Energy Corporation of India. India installed 14.3GW of new utility-scale solar capacity in the first half (H1) of 2025, marking a 49% increase year-on-year, according to energy consultancy firm JMK Research. How many solar panels are installed in India in 2025?

Installation trends As of March 31, 2025, about 85.6 GW of utility-scale solar capacity has been commissioned in India, while another 68.2 GW is under pipeline (where auctions are completed). As of March 31, 2025, Rajasthan has maximum installed solar capacity of ~26.9 GW followed by Gujarat (12.8 GW) and Karnataka (10.6 GW).

What is the solar capacity of Rajasthan in 2025?

As of March 31, 2025, Rajasthan has maximum installed solar capacity of ~26.9 GW followed by Gujarat (12.8 GW) and Karnataka (10.6 GW). In FY2025, about 17.4 GW of utility-scale solar capacity and another 5.15 GW of rooftop



solar capacity were added in India.

How much solar is installed in India in 2024?

In 2024, India installed 20.7 GW of solar capacity, bringing the total to 81.9 GW. This includes 63.5 GW of utility-scale solar and 18.4 GW of rooftop solar. During this period, utility-scale installations contributed 18.5 GW, while rooftop solar accounted for 2.2 GW.

How many solar panels are installed in India in FY2025?

In FY2025, about 17.4 GW of utility-scale solar capacity and another 5.15 GW of rooftop solar capacity were added in India. In FY2025, the top three states with maximum installed solar capacity were Rajasthan (6.5 GW), Gujarat (3.6 GW), and Maharashtra (2.3 GW).

How big is India's solar power sector?

India's solar power sector has witnessed an extraordinary 3450 % increase in capacity over the past decade, rising from 2.82 GW in 2014 to 100 GW in 2025. As of January 31, 2025, India's total solar capacity installed stands at 100.33 GW, with 84.10 GW under implementation and an additional 47.49 GW under tendering.

Why did India increase its solar power capacity in March 2025?

This marked a 29.13% increase compared to the previous year, reflecting the rapid growth in solar installations. India's total installed power capacity grew by 7.52% year-over-year, reaching 475 GW in March 2025. This overall growth shows the country's dedication to diversifying its energy mix.



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[India solar capacity 2025 Surges with 7.8 GW ...](#)

Between January and March 2025, India installed 7.8 GW of solar capacity, bringing the total to 89.7 GW, according to Mercom India. This includes 70.3 GW of utility-scale solar and 19.4 GW of rooftop solar.

[India Hits 100 GW Solar Milestone: Growth & Future ...](#)

India achieved 100 GW of solar capacity as of January 2025, aiming for 500 GW of renewable energy by 2030. Solar energy now contributes 47% of total installed renewable capacity, showing its dominance in clean ...



[India's installed PV capacity expected to hit 104 GW ...](#)

Currently, India has an installed solar power of around 73 GW, according to ICRA. New solar capacity additions in fiscal year 2024 and fiscal year 2025 are estimated at 17 GW and 20 GW, respectively.



[The role of solar in India's 500 GW renewable energy ...](#)

As of Feb. 28, 2025, India's installed solar capacity stands at approximately 102.57 GW, contributing significantly to its renewable energy



mix. To meet the 500 GW target, solar energy will need to contribute nearly 300 GW.



[India's Renewable Energy Surge: Solar Generation...](#)

In January 2025, India achieved a major milestone in its renewable energy sector, with solar power accounting for nearly 59.99% of the country's total renewable energy generation, excluding large hydropower. The ...



[India to reach 160 GW of solar module capacity, 120 ...](#)

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 ...



[India solar capacity 2025 Surges with 7.8 GW ...](#)

In the first quarter (Q1) of 2025, India added 7.8 gigawatts (GW) of solar capacity, reaching a total of 89.7 GW of installed solar power. This growth highlights India's ongoing commitment to expanding its renewable energy ...



India Hits Historic 10 GW Solar Milestone In 4 Months ...

India has achieved a new milestone in its renewable energy journey by adding more than 10 GW of solar capacity in the first four months of 2025, marking the highest-ever solar capacity addition during this period in the ...



[Energizing the Future: POWERup Q1 2025 Highlights](#)

Conclusion India's power sector witnessed strong growth in Q1 2025, with substantial capacity additions led by renewables and record-high investments. Supportive policies, rising demand, and increased private sector ...

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