

India solar capacity 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.

India's solar module manufacturing capacity has reached about 100 GW, meeting domestic demand, says SBICAPS. With total capacity rising to 190 GW by March 2027 amid limited export opportunities, the market faces oversupply risks. From pv magazine India India's solar module manufacturing capacity.

India's total installed solar capacity stood at 100.33 GW as of Jan. 31, 2025, with 84.10 GW under implementation and an additional 47.49 GW under tendering. Adani Green is developing the world's largest RE plant at Khavda, Gujarat. AGEL India has surpassed 100 GW of installed solar power capacity. How much solar power does India have in 2025?

New Delhi: India added 18 gigawatt (GW) of solar power capacity in the first



half (H1) of 2025, a 31 per cent increase over the same period last year, according to the Q2 2025 India Solar Market Update by Mercom India Research.

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.

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.

Will India achieve 100 GW of solar power by 2030?

India has also made significant strides in solar manufacturing. In 2014, the country had a limited solar module production capacity of just 2 GW. Over the past decade, this has surged to 60 GW in 2024. With continued policy support, India is on track to achieve a solar module production capacity of 100 GW by 2030.

Will India reach 100 GW solar energy capacity?

India reaches 100 GW solar energy capacity, marking a major milestone in renewable energy. Learn about key government schemes, rapid growth trends, and future targets for 2030.

What are the recent achievements of India in solar energy?

About Recent Achievements of India in Solar Energy: 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 energy. A 3,450% increase in solar capacity from 2.82 GW in 2014 to 100 GW in 2025.



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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.

[4.2 GW wind and 23.8 GW solar installed in India in ...](#)

In FY2025 (April 2024- March 2025), approximately 23,832 MW of solar capacity and 4,151 MW of wind capacity were added in India. Wind and solar installed capacity increased by 27.9% and 58.5% respectively compared to FY2024.



India's solar module capacity hits 100 GW with oversupply risk by ...

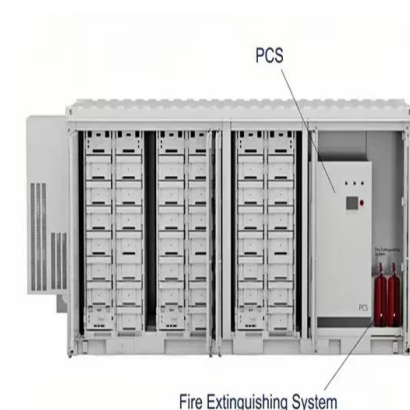
India's solar module manufacturing capacity has reached about 100 GW, meeting domestic demand, says SBICAPS. With total capacity rising to 190 GW by March 2027 amid ...

India on track to hit 132 GW of solar by 2026, says ICRA

ICRA, an Indian credit rating agency, says India could add 22 GW of solar capacity in fiscal 2025 and 27.5 GW in fiscal 2026, pushing the nation's



total installed PV capacity to 131.5 GW by March



[India expected to install 21.2 GW of solar in FY 2025](#)

JMK Research expects India to install about 21.2 GW of new solar capacity in FY 2025 ending March 31, 2025. Around 16.5 GW of this will come from utility-scale pv installations, 4 GW from rooftop solar, and another ...

[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 installed 7.8 GW solar in Q1 2025, says IEEFA](#)

India added 7,782 MW of solar power generation capacity in the Jan-Feb-March period of 2025, the second-highest PV installation in the last 13 quarters, according to a power sector summary by the Institute for Energy ...





[Solar Energy in India , Current Affairs , Vision IAS](#)

Why in the News? India has achieved a historic milestone by surpassing 100 GW of installed solar power capacity. More on the news As of January, 2025, India's total solar capacity installed stands at 100.33 GW with ...



[India PV Module Intelligence Brief , Q1 2025](#)

India Corporate Renewable Brief , Q1 2025 This report provides a quarterly update on key trends and developments in the corporate renewable market including capacity addition, key players, policy issuances, financing, ...

[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 ...



[India's Renewable Energy Boom: The Power of Solar ...](#)

Between 2014 and 2023, solar energy capacity in India expanded dramatically, fuelled by the decreasing costs of Photovoltaic (PV) technology, an investment-friendly climate, and India's vast solar potential with about 300 sunny days ...



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