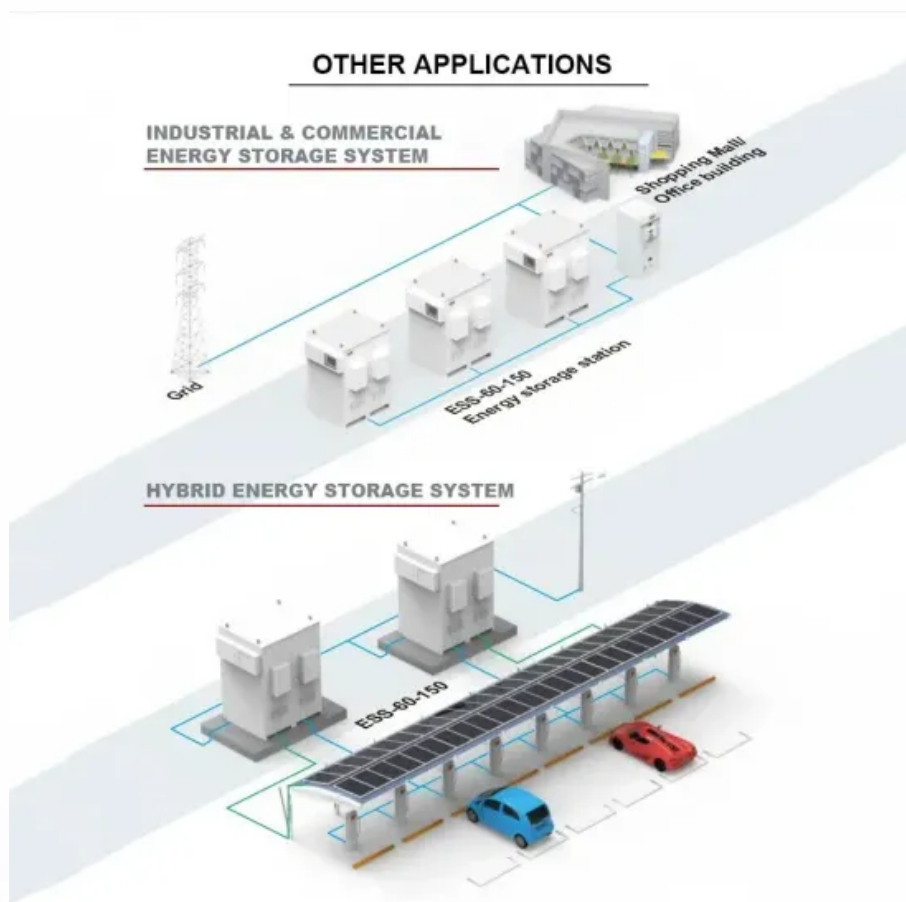


Solar power in india 2025





Overview

India's cumulative installed solar capacity reached 116.4 GW as of June 2025, with large-scale projects accounting for 86 per cent and rooftop solar for 14 per cent. Solar now makes up 24 per cent of the country's total installed power capacity and more than 49 per cent of renewable.

India's cumulative installed solar capacity reached 116.4 GW as of June 2025, with large-scale projects accounting for 86 per cent and rooftop solar for 14 per cent. Solar now makes up 24 per cent of the country's total installed power capacity and more than 49 per cent of renewable.

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.

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.

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.

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.

India has achieved a historic milestone by surpassing 100 GW of installed solar power capacity. As of January, 2025, India's total solar capacity installed stands at 100.33 GW with remarkable growth trajectory (see infographic). 84.10 GW is under implementation and an additional 47.49 GW under.



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 big is India's solar capacity in 2025?

As of January, 2025, India's total solar capacity installed stands at 100.33 GW with remarkable growth trajectory (see infographic). 84.10 GW is under implementation and an additional 47.49 GW under tendering. India's also witnessed growth in hybrid and round-the-clock (RTC) renewable energy projects.

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).

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.

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.

What is the future of solar in India?

The future looks bright. India is expected to add 22 GW of solar capacity in FY 2025 and 27.5 GW in FY 2026. Residential rooftop solar will grow further, especially with the PM Surya Ghar Muft Bijli Yojana providing free solar electricity to 10 million homes.



How has India's solar power sector changed over the past decade?

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. The rooftop solar sector in India witnessed remarkable growth in 2024, with 4.59 GW of new capacity installed, reflecting a 53% increase compared to 2023.



Solar power in india 2025



[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 ...

Budget 2025 , Govt allocates INR1,500 crore to solar ...

The Union Budget of 2025 on Saturday (February 1) has allocated INR1,500 crore to the solar power (grid) segment, reinforcing India's commitment to renewable energy transition. Last year, the Finance Minister allotted over INR 8,000 crore to ...



[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, ...

India's solar capacity surges, but power output struggles to keep ...

As of January 2025, India's solar power installed capacity reached 100.1 GW, reflecting an addition of about 25.8 GW between January 2024



and January 2025. This represented more ...

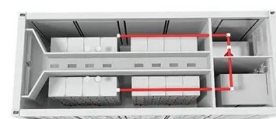


The role of solar in India's 500 GW renewable energy ...

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.

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

As of January, 2025, India's total solar capacity installed stands at 100.33 GW with remarkable growth trajectory (see infographic). 84.10 GW is under implementation and an additional 47.49 GW under tendering.



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

Solar and wind power generation increased by 16.6% from Q1 2024 to Q1 2025. Nuclear power generation grew by 16.7% in the same period. The share of fossil fuel-based power generation declined to 77.9% from ...



[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 ...



[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 capacity surges, but power output ...](#)

As of January 2025, India's solar power installed capacity reached 100.1 GW, reflecting an addition of about 25.8 GW between January 2024 and January 2025. This represented more than double capacity addition during the previous year ...



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