

India solar power capacity





Overview

What is India's solar power capacity?

India's solar power installed capacity was 119.02 GW AC as of 31 July 2025. The use of solar power is also necessary for India to achieve carbon neutrality by 2070, by achieving 500 GW of renewable energy by 2030, of which at least around 250 GW will be generated by solar power.

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

India's solar power sector has witnessed an extraordinary 3,450% increase in capacity over the past decade, rising from 2.82 GW in 2014 to 100 GW in 2025. Solar energy remains the dominant contributor to India's renewable energy growth, accounting for 47% of the total installed renewable energy capacity.

How much solar power does India have in 2024?

In October 2024 alone, India added 1.357 GW of solar PV capacity, continuing its rapid progress towards a cleaner, more sustainable energy future. With these additions, India's total renewable energy capacity, excluding large hydro, has surpassed 156.247 GW, with solar and wind power making up 89.5% of this total.

Will India achieve a 100 GW solar module production capacity?

With continued policy support, India is on track to achieve a solar module production capacity of 100 GW by 2030. Under the guidance of Union Minister Shri Pralhad Joshi, the Ministry of New and Renewable Energy (MNRE) has been implementing key initiatives to scale up renewable energy capacity in India.

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.

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.



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[India's Solar Power Capacity Reaches 92 GW. ...](#)

As of October 2024, the country's installed solar PV capacity has reached an impressive 92,119.18 MW, which accounts for more than 58.96% of its total renewable energy capacity, excluding large hydro. This growth ...

Solar Grid Connected , MINISTRY OF NEW AND RENEWABLE ENERGY , India ...

6 ???· India has achieved 5th rank in the world in solar power deployment. As on 30-06-2023, solar projects of capacity of 70.10 GW have been commissioned in the country. The capacity of ...



Solar power in India

India's solar power installed capacity was 119.02 GW AC as of 31 July 2025. [2] The use of solar power is also necessary for India to achieve carbon neutrality by 2070, by achieving 500 GW of renewable energy by 2030, of which at least ...



[India exceeds 100GW national solar power capacity](#)

Solar energy continues to be the primary driver of India's renewable energy expansion, accounting for 47% of the total installed



renewable capacity. In 2024, a record 24.5GW of solar capacity was added.



[India exceeds 100GW national solar power capacity](#)

India has reached a milestone by exceeding 100GW in national solar power capacity, strengthening its status in the global renewable energy sector. The achievement aligns with the nation's commitment to a sustainable ...



[India hits 100 GW of installed solar power capacity](#)

India has surpassed 100 GW of installed solar power capacity. The achievement marks a significant step toward realizing its ambitious target of 500 GW of non-fossil fuel-based energy capacity by 2030 set by Prime ...



[India's solar capacity surges, but power output ...](#)

Despite adding 25.8 GW solar capacity, power output remains at 15% Output growth to remain tepid for 4-5 years more Mumbai: India's solar energy capacity has seen a significant surge with about 25.8 GW addition ...



India's solar surge: A look at ambitious plans, actual ...

Globally, India has emerged as a significant player in renewable energy, ranking fourth in total renewable power capacity additions and fifth in solar power capacity. From 2014 to 2024, India also saw an expansion in its ...



[India installed 'record' 24.5 GW of solar power ...](#)

The total solar capacity addition in 2024 is the highest recorded capacity in any previous year, according to a new report by JMK Research & Analytics, With these additions, India's total installed renewable energy (RE) ...

[India Achieves 100 GW Solar Power Capacity, On ...](#)

New Delhi: India has achieved a historic milestone by surpassing 100 GW of installed solar power capacity, reinforcing its position as a global leader in renewable energy. This remarkable achievement is a testament to ...



[India Solar Power Capacity 2024: India's solar power ...](#)

India Solar Power Capacity 2024: India added 24.5 Gigawatt of new solar power capacity in 2024, the highest ever achieved in any year, and more than double the solar capacity added in the previous calendar year 2023. ...



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