

# Solar energy capacity in india





## Overview

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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 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 the nation's commitment to a cleaner, greener future and marks a significant step toward.

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.

As of March 31, 2024, about 68.2 GW of utility-scale solar capacity in India has been commissioned, while another 65.6 GW is under pipeline (where auctions are completed). As of March 31, 2024, Rajasthan has maximum installed solar capacity of 19.9 GW followed by Gujarat (10.6 GW) and Karnataka.

Context: India has achieved the milestone of 100 GW solar energy capacity, reinforcing its global leadership in renewable energy and progress toward a 500 GW non-fossil fuel target by 2030. About Recent Achievements of India in Solar Energy: India achieved 100 GW of solar capacity as of January.

Solar power generation capacity in India reached 100.32 GW as of January 31, 2024, marking a 30-fold increase over the past nine years. Rajasthan leads



with the highest installed solar capacity at 27.3 GW. Explore India's rapid growth in renewable energy and solar power expansion. The generational. 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 many solar panels are there in India?

As of March 31, 2024, about 68.2 GW of utility-scale solar capacity in India has been commissioned, while another 65.6 GW is under pipeline (where auctions are completed). As of March 31, 2024, Rajasthan has maximum installed solar capacity of 19.9 GW followed by Gujarat (10.6 GW) and Karnataka (9.2 GW).

Which country has the highest installed solar capacity in India?

Rajasthan leads with the highest installed solar capacity at 27.3 GW. Explore India's rapid growth in renewable energy and solar power expansion. The generational solar capacity include Ground based plant, Solar rooftop and hybrid projects. Cumulative : 100.32 GW.

What is the generational solar capacity of India?

The generational solar capacity include Ground based plant, Solar rooftop and hybrid projects. Cumulative : 100.32 GW The country has ambitious targets for renewable energy, aiming for 500 GW of non-fossil fuel energy capacity by 2030, with a significant portion expected to come from solar energy.

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.

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.



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

By the end of 2024, India's total renewable energy capacity reached 187.7 GW, with solar power playing a significant role. To support this growth, the Indian government has implemented various policies and ...

### [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 solar module capacity hits 100 GW with oversupply risk by ...**

1 ??· 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 adds 18 GW solar capacity in H1 2025, up 31%: Report**

45 ????· India added 18 GW of solar power capacity in H1 2025, marking a significant 31% increase from the previous year. The second



quarter saw 11.3 GW commissioned, driven by ...



### [India adds 16.4 GW solar capacity in 9M 2024, a ...](#)

India Solar Capacity: In the third quarter (Q3) of 2024 alone, 3.5 GW of solar capacity was installed, reflecting a 28% quarter-on-quarter (QoQ) decline from 4.9 GW in Q2 2024 but a 78% year-on-year (YoY) increase from ...



### [India adds 25 GW solar capacity in 2024; sees 204](#)

India added 25.2 gigawatts (GW) of solar in the calendar year (CY) 2024, over 204% increase compared to 8.3 GW added in 2023, according to Mercom India's latest report on India's solar market update. According to the ...



### **Solar Overview , MINISTRY OF NEW AND RENEWABLE ENERGY , India ...**

Further, solar energy sector in India has emerged as a significant player in the grid connected power generation capacity over the years. It supports the government agenda of sustainable ...





### [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) ...



#### APPLICATION SCENARIOS



### [Solar Power capacity of states in India: 2025](#)

Solar power generation capacity in India reached 100.32 GW as of January 31, 2024, marking a 30-fold increase over the past nine years. Rajasthan leads with the highest installed solar capacity at 27.3 GW.

### [State-wise Solar Power Capacity in India](#)

State-wise Solar Power Capacity in India The total solar power capacity installed in the country as on 30 June, 2023 is 70.10 GW. In addition, 55.90 GW is under installation. The Government is making all efforts through various schemes & ...



### **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 ...





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

5 ???· Solar Grid Connected Grid Connected Overview: Solar power sector in India has emerged as a fast-upcoming section in last few years. It supports the government agenda of ...



## [Solar Power Dominates India's RE Landscape with ...](#)

India is steadily expanding its renewable energy capacity, strengthening its power sector with continuous additions in solar, wind, and hydro projects. As of December 31, 2024, according to data from the Ministry of New ...

## [India's renewable energy capacity rises to 220.1 GW; ...](#)

A combined capacity of 143.8 GW in solar, wind, hybrid and storage projects is under implementation, expected to be commissioned over the next 4-5 years. An additional 66.1 GW of capacity is currently in the bidding ...







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