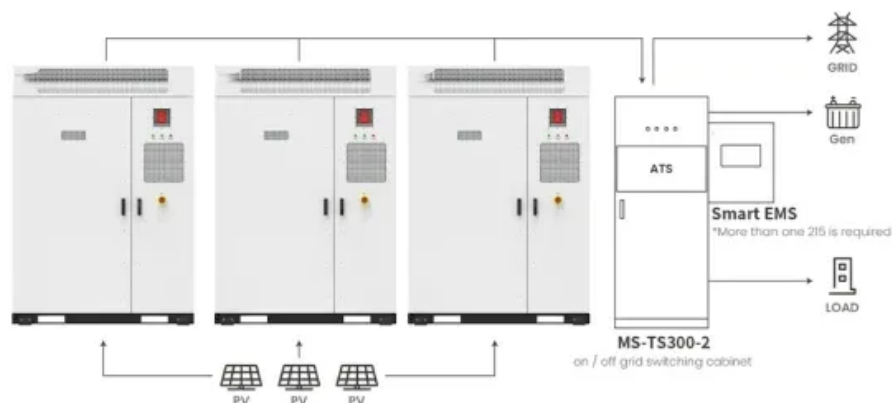


# India solar power capacity 2025



**Application scenarios of energy storage battery products**



## Overview

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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.

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.

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. In 2024, a record-breaking 24.5 GW (including rooftop solar. 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.

Is solar power a major driver of India's growth?

By the end of March 2025, renewable energy accounted for 36.27% of India's total installed power capacity. Solar power was a major driver of this growth. India crossed 105.646 GW in solar photovoltaic capacity by March 2025. The total renewable energy capacity, excluding large hydroelectric projects, reached 172.368 GW.

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.



## India solar power capacity 2025

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

Solar Power Generation capacity of Indian states in 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 ...



### [Solar Installations in India Jumped 31% YoY in 1H 2025](#)

1 ??· In the second quarter (Q2) of 2025, India added 11.3 GW of solar capacity, a 145.4% YoY increase from 4.6 GW and a 66.9% increase from Q1 2025. Solar accounted for 64% of new ...

### [The 10 Big Milestones That Will Define India's RE](#)

MNRE data suggests that with a total of 15 GW of solar capacity coming from the PM Surya Ghar scheme and more, residential rooftop solar now



comprises 16% of India's total solar capacity.  
2025 should see this ...

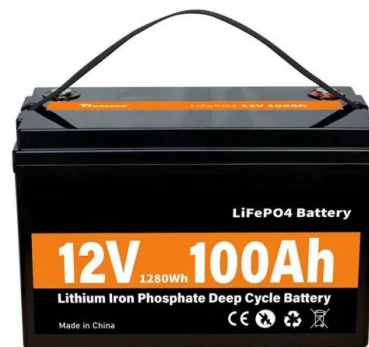


### Indian solar manufacturing to hit 160 GW of modules, ...

India is expected to reach 160 GW of solar module capacity and 120 GW of cell capacity by 2030, up from 80 GW and 15 GW respectively in 2025, according to a new SolarPower Europe report, with

### 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.



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

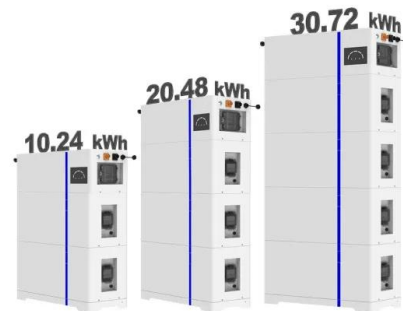
Between January and April 2025, India installed a total of 10,080.89 MW of solar power, accompanied by a significant increase in wind energy capacity, with 2,895.39 MW added. Combined, the total renewable ...



### [India's Renewable Energy Growth: Solar Power](#)

India was ranked fourth in wind power capacity and solar power capacity, and fourth in renewable energy installed capacity, as of 2023. As of March 2025, renewable energy sources, including biomass, waste to power and waste to ...

### ESS



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

India's solar capacity has surged 3,450%, growing from 2.82GW in 2014 to 100GW by 2025. Credit: bombermoon/Shutterstock. India has reached a milestone by exceeding 100GW in national solar power capacity, ...



### [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'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 ...



### India's Solar Power Capacity Surges by 31% in H1 2025, ...

2 ????· 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 ...



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