

# **Solar power 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 adds record 24.5 GW of solar power capacity in CY2024 In 2024 (January to December), India added about 24.5 GW of solar and ~3.4 GW of wind capacity. This represents around twofold rise in solar installations compared to the annual solar installations of 12.8 GW in 2023 and a nearly 1.21.

India added about 24.5 GW of new solar capacity in the twelve months ending Dec. 2024, the highest recorded capacity in any previous year. India added about 24.5 GW of new solar and 3.4 GW of new wind capacity in the twelve months ending Dec. 2024. This represents a more than twofold rise in solar.

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.

Shri Pralhad Joshi assumed the office of Union Minister of New and Renewable Energy in June 2024 and under his guidance, India crossed the 200 GW



milestone of total installed Renewable Energy capacity in September 2024. The total installed non-fossil fuel capacity has further increased to 214 GW in. How much solar power does India have?

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 energy capacity. However, tendering and auction activity slowed.

Which state has the most solar power in India?

In 2024, Rajasthan leads with 7.09 GW capacity, followed by Gujarat with 4.32 GW and Tamil Nadu with 1.73 GW. These top 3 states account for 71% of India's total solar utility-scale solar installation. Rooftop Solar: India added about 4.59 GW of new rooftop solar capacity in 2024, a 53% increase compared to 2023.

How much solar power does India add in 2024?

India adds record 24.5 GW of solar power capacity in CY2024 In 2024 (January to December), India added about 24.5 GW of solar and ~3.4 GW of wind capacity. This represents around twofold rise in solar installations compared to the annual solar installations of 12.8 GW in 2023 and a nearly 1.21 times increase in wind installations compared to 2023.

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 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.

Is India a good country for solar power deployment?

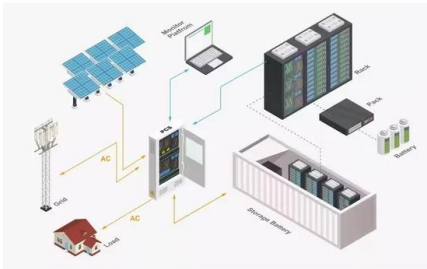


India has achieved 5th rank in the world in solar power deployment. As on 30-06-2023, solar projects of capacity of 70.10 GW have been commissioned in the country. The capacity of 70.10 GW includes 57.22 GW from ground-mounted solar projects, 10.37 GW from rooftop solar projects, and 2.51 GW from off-grid solar projects.



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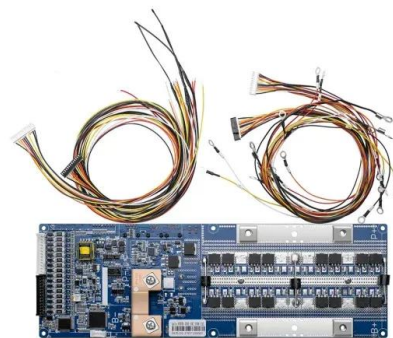


### [India to add 22.4GW solar capacity in 2024 - JMK ...](#)

India is on track to install 22.4GW of new solar PV generation capacity in 2024 according to energy consultancy firm JMK Research. Data in JMK's Q3 2024 renewable energy update showed that India

### [Annual Solar Installations: India Adds 24.5 GW in ...](#)

With these additions, India's total installed renewable energy (RE) capacity reached 209.44 GW as of December 2024. Solar energy accounts for approximately 47% of the total RE segment, making it the most significant ...



### [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 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 ...



### [Record Growth for Non-Fossil Fuel Energy in India](#)

With substantial capacity additions and impressive growth in solar, wind, bioenergy, hydro, and nuclear energy, the country continues to advance towards its ambitious target of achieving 500 GW from non-fossil ...



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

6 ???· As on 30-06-2023, solar projects of capacity of 70.10 GW have been commissioned in the country. The capacity of 70.10 GW includes 57.22 GW from ground-mounted solar ...



<b>LiFePO<sub>4</sub> Battery,safety</b>
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<b>Modular design, easy to expand</b>
<b>The heating function is optional</b>
<b>Intelligent BMS</b>
<b>Cycle Life:≥ 6000</b>
<b>Warranty:10 years</b>



### **India adds 18 GW solar capacity in H1 2025, up 31%: Report**

23 ????· 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 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. ...



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

India has made significant strides in solar energy adoption in recent years, driven by declining costs and advancements in photovoltaic (PV) technology. As of October 2024, the country's installed solar PV capacity has ...

### [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 ...



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

Mumbai: India's solar energy capacity has seen a significant surge with about 25.8 GW addition between January 2024 and January 2025, however, the actual power output from this growth has not been as substantial, ...





### [India's Renewable Energy Capacity Hits New Milestone](#)

Leading States in Renewable Energy Capacity  
Several states in India have emerged as leaders in renewable energy capacity, contributing significantly to the nation's progress. Rajasthan tops the list with an impressive ...

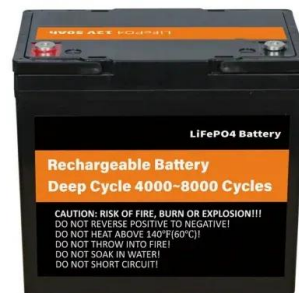


### [Solar Power Dominates India's RE Landscape with ...](#)

Solar Power Dominates India's RE Landscape with over 97 GW of Installed Capacity As per MNRE data (December 31, 2024), India's renewable energy capacity has reached 209 GW, with solar power leading at 97.8 GW, ...

### [India's Solar Power Revolution: Shaping the Future](#)

India is leading the renewable energy revolution, with a strategic emphasis on solar power to meet its growing electricity needs. The 14th National Electricity Plan (NEP14), introduced in May 2023, aims to double the country's ...





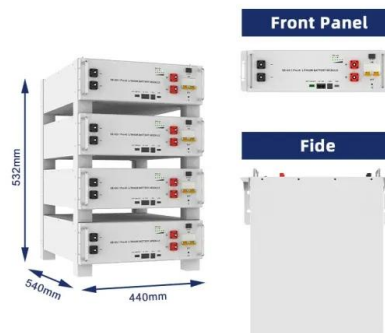


### [India's Solar Power Capacity Reaches 92 GW. ...](#)

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 ...

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

2 ???· 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 ...



### [Solar boom: India adds 14.9 GW solar capacity in H1 ...](#)

Rajasthan, Gujarat, and Karnataka led large-scale solar capacity additions for the quarter, accounting for 30%, 22%, and 21% of installations, respectively. In H1 2024, India added 20.8 GW of new power ...

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