

Solar power capacity of india





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.

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 India's solar energy capacity in 2024?

As of November 2024, India's cumulative installed solar energy capacity has reached 94.17 GW. Growth Ahead: The country's total installed and pipeline solar projects combined stand (as on Nov 2024) at 261.15 GW, reflecting a strong pipeline for future growth and expansion in the solar sector. SOLAR PARKS AND BATTERY STORAGE SOLAR PV MODULE.

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 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 many solar projects are there in India?

India's also witnessed growth in hybrid and round-the-clock (RTC) renewable energy projects. Projects generating 64.67 GW are under implementation and tendered, bringing the grand total of solar and hybrid projects to 296.59 GW. Solar power is energy from the Sun that is converted into thermal or electrical energy.



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Power Sector at a Glance ALL INDIA , Government of India

Government of India, Ministry of Power^{1.1} The electricity generation target (Including RE) for the year 2023-24 has been fixed as 1750 Billion Unit (BU). i.e. growth of around 7.2% over actual ...

Investment Opportunities in Renewable Energy

The government's commitment to creating a sustainable world and scaling up solar capacity through initiatives like the International Solar Alliance reflects the country's potential to harness solar power in collaboration with more than 120 ...



Solar power in India

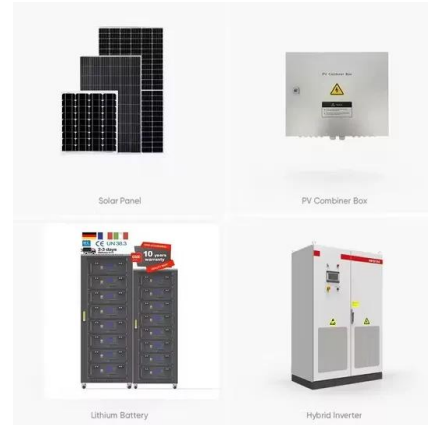
India's solar power installed capacity was 119.02 GW AC as of 31 July 2025. [2] The use of solar power is also necessary for India to achieve carbon neutrality by 2070, by achieving 500 GW of renewable energy by 2030, of which at least ...

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 ...



Our Lifepo4 batteries can beconnected in parallels and in series for larger capacity and voltage.



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.

Despite a record year, India needs to double ...

Figure 1 Solar power propels capacity growth India's record year for capacity additions was propelled by solar photovoltaic technologies, which accounted for 71% of total capacity additions across the power sector and 86% of the 28.6 ...

50KW modular power converter



India installed 'record' 24.5 GW of solar power ...

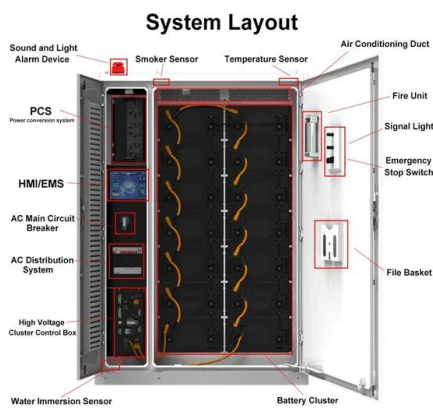
The total solar capacity addition in 2024 is the highest recorded capacity in any previous year, according to a new report by JMK Research & Analytics, With these additions, India's total installed renewable energy (RE) ...



[India's Renewable Energy Capacity Hits 200 GW](#)

...

Introduction India has reached a significant milestone in its renewable energy journey, with the country's total renewable energy capacity crossing the 200 GW (gigawatt) mark as of October 10, 2024. According to the ...



[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 ...



[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 & ...



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 ...



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

In 2024, India added 34.7 GW of new power capacity. Solar power accounted for almost 73% of the capacity additions. In the fourth quarter (Q4) of 2024, India added 7.8 GW of solar capacity, up almost 118% from 3.6 ...





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