

Solar power plant capacity in india





Overview

Installed Solar capacity crosses 100 GW: 116.24 GW solar as of August 12, 2025 (up from 2.82 GW in 2014). Solar energy alone accounts for 48% of India's total RE capacity. Large Hydro capacity stands at 49.62 GW and Small Hydro stands at 5.10 GW, as of August 12, 2025.

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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 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. Earlier this year, India crossed 100GW of cumulative solar capacity, becoming the world's fourth-largest PV market.

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.

We undertook the initiative and today, the solar energy capacity has increased 30-fold, over the past 11 years. We are constructing new dams for clean energy production. Bharat is investing thousands of crores of rupees under Mission Green Hydrogen. We are also undertaking major initiatives in.

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.



As of early 2025, solar power contributes more than 22 % of the nation's installed capacity, reaching over 107 GW of solar panels . Today, we spotlight India's top five solar power plants in 2025, ranked by capacity, highlighting why each holds the title of the largest solar power plant in India or. How many solar panels are there in India?

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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.

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.

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.

Which is the largest solar power plant in India?

The Bhadla Solar Park in Rajasthan is the largest solar power plant in India,



with a massive capacity of 2.25 GW. Following Bhadla, the Pavagada Solar Park in Karnataka and the Kurnool Ultra Mega Solar Park in Andhra Pradesh are among the biggest solar parks in India



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Top 10 Solar Power Plants in India

The Kamuthi Solar Power Project, located in the Tamil Nadu state of India, is one of the largest solar power plants in the world. Spanning over 2,500 acres in the Ramanathapuram district, the project boasts an installed ...



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 records 90GW of solar photovoltaic \(PV\) capacity](#)

According to the latest data from India's Ministry of New and Renewable Energy (MNRE), the country's total installed power capacity reached 452.69 GW as of October, with renewable energy contributing 201.45 GW, or ...



[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



Top 10 Solar Power Plant in India , Largest Solar Power Plant in ...

6 ???· The largest solar power plant in India is the Bhadla Solar Park, located in Rajasthan, with a total capacity of 2,245 MW. Which is the world's largest solar power plant and where is it ...

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.



Power Sector at a Glance ALL INDIA , Government of India

Goverment of India, Ministry of Power1.1 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 ...



[Solar Capacity in India: Annual India Solar Report ...](#)

In FY2024, India added about 11.7 GW of utility-scale solar capacity and another 3 GW of rooftop solar capacity. This represents an increase of about 14.5% and 36.4%, respectively, compared to the installation capacity ...



Largest Solar Power Plant in India 2023, List of Top ...

India's Largest Solar Power Plant 2023 The Bhadla Solar Park in Rajasthan, India, sprawls over 56 square kilometers, making it India's largest solar power plant as of 2023. With a remarkable 2,055 megawatts capacity ...

List of Solar Power Plants in India

Solar Power in India is a fast developing industry as part of the renewable energy in India. The country's solar installed capacity was 56.951 GW as of 1 June 2022. The Indian Government had an initial target of 20 GW ...



[Largest Solar power Plants in India that are ...](#)

Moreover, it also requires a high upfront cost. Conclusion The development of solar plants in India continues to grow after a high demand for renewable energy like solar power. Solar power plants are actively useful in generating electricity ...



[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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