

Solar energy statistics in india





Overview

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Indeed, in 2023, India was the third-largest solar energy producer in the world, adding over 16.6 GW of new solar installations. This growth is driven by ambitious government targets, declining costs of solar technology, increasing energy demand, and a favorable policy environment. India's.

India is endowed with vast solar energy potential. About 5,000 trillion kWh per year energy is incident over India's land area with most parts receiving 4-7 kWh per sqm per day. Solar photovoltaic power can effectively be harnessed providing huge scalability in India. Solar also provides the.

India made 1,08,494 GWh of solar power, more than Japan's 96,459 GWh, and became the world's third-biggest solar energy producer. India's solar module manufacturing capacity jumped from 38 GW to 74 GW during FY 2024-25. Just a decade ago, India's solar landscape was in its infancy, with panels.

As of March 31, 2025, about 85.6 GW of utility-scale solar capacity has been commissioned in India, while another 68.2 GW is under pipeline (where auctions are completed). As of March 31, 2025, Rajasthan has maximum installed solar capacity of ~26.9 GW followed by Gujarat (12.8 GW) and Karnataka.

The report highlighted that the project pipeline for solar, wind, hybrid, and storage projects stands at around 148 GW, likely to be commissioned in the next four to five years. Another 74 GW of projects are in the bidding phase. New Delhi: India's renewable energy capacity stood at 234 GW as of.



As of October 31, 2024, India's total installed renewable energy capacity, excluding hydropower, reached approximately 203.18 GW, with solar power contributing about 92.12 GW. This remarkable progress reflects the country's dedication to expanding its renewable energy infrastructure. The Indian. 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.

How much solar energy does India produce a year?

Solar power generation in India has increased considerably in the last few years. In 2024, the country produced roughly 133.81 terawatt-hours of electricity from solar energy. India aims to achieve a total solar capacity of 280 gigawatts by 2030. India, blessed with about 300 sunny days yearly, experiences a significant influx of solar energy.

How much solar power does India have in 2025?

India has achieved a historic milestone by surpassing 100 GW of installed solar power capacity. 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.

Does India have a solar energy source?

The Sun has been worshiped as a life-giver to our planet since ancient times. The industrial ages gave us the understanding of sunlight as an energy source. India is endowed with vast solar energy potential. About 5,000 trillion kWh per year energy is incident over India's land area with most parts receiving 4-7 kWh per sqm per day.

How much solar power does India have in 2024?

In 2024, solar power comprised nearly 36 percent of India's renewable potential, marking a substantial shift toward a more sustainable and diverse energy mix. The Gujarat Renewable Energy Policy introduced by the state's government sets a target to generate 50 percent of renewable energy by 2030.



Why is solar power important in India?

About 5,000 trillion kWh per year energy is incident over India's land area with most parts receiving 4-7 kWh per sqm per day. Solar photovoltaic power can effectively be harnessed providing huge scalability in India. Solar also provides the ability to generate power on a distributed basis and enables rapid capacity addition with short lead times.



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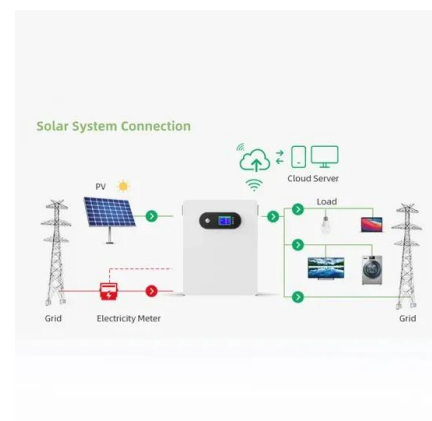


[Renewable energy now powers 47% of India's ...](#)

With this, renewable energy now constitutes about 47% of India's total installed capacity and is closer to achieving the committed target of generating over half of the energy basket from non-fossil fuel energy sources.

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

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India's Renewable Energy Capacity Hits 234 GW, Solar ...

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[India Overtakes Germany To Become 3rd-Largest](#)

New Delhi: India became the world's third-largest producer of electricity from wind and solar energy in 2024, overtaking Germany, to



according to a new report published on Tuesday.
The sixth edition of global energy think ...



[Solar Power Statistics in India 2019](#)

India is emerging as one of the major solar energy markets in the world and in the process of catching up with the two leading countries like China and the US. Currently, India ranks as the third-largest solar market in ...



Energy Statistics India 2025

Introduction The National Statistics Office released its annual "Energy Statistics India 2025" publication, offering a comprehensive dataset on India's energy sector. This report includes vital information on reserves, ...



Solar power in India

Photovoltaic electricity potential of India The solar power potential of India is assessed at 10,830 GW in 2025. [18] With about 300 clear and sunny days in a year, the calculated solar energy incidence on India's land area is about 5,000 ...





Energy Statistics India 2024

As India continues its journey towards a more sustainable future, the latest Energy Statistics India 2024 report sheds light on the nation's progress and challenges in the realm of renewable energy and climate action. ...



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Further, Indo-German Solar Energy Partnership (IGSP) is developing market forces while introducing enabling mechanisms and facilitating investments in rooftop PV systems. Issues constricting in further advancement ...

India's renewable power potential crosses 2.1 million ...

India ranks fourth globally in renewable energy installed capacity, fourth in wind power capacity, and fifth in solar power capacity, according to the International Renewable Energy Agency's Renewable Capacity Statistics 2024.



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