

Percentage of solar power in india



Solar Panel



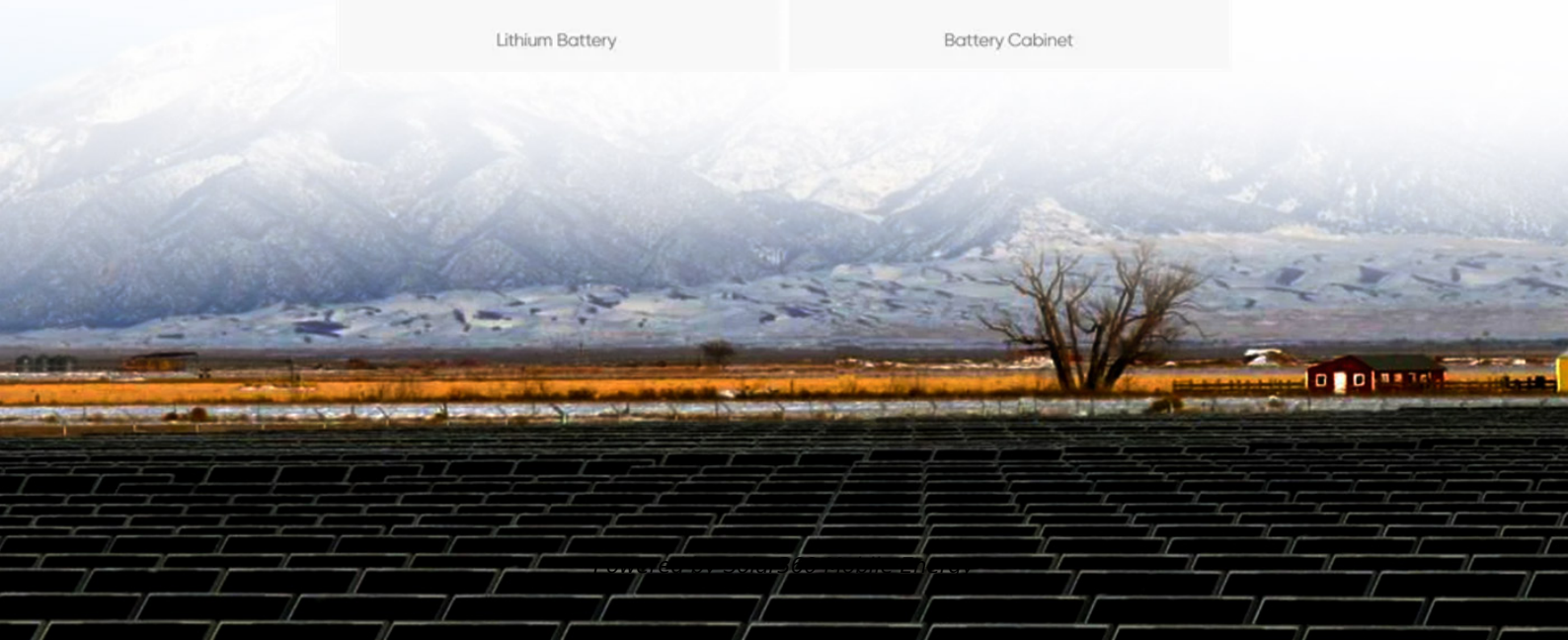
Hybrid Inverter



Lithium Battery



Battery Cabinet





Overview

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 around 250 GW will be generated by solar power. Overview Solar power in India is an essential source of . Since the early 2000s, has increased its solar power significantly with the help of various government initia.

The had an initial target of 20 GW capacity for 2022, which was achieved four years ahead of schedule. In 2015 the target was raised to 100 GW of solar capacity (including 40 GW from).

What percentage of India's installed power capacity is solar?

Home Insights Solar Energy Represents 17% of India's Installed Power Capacity, Overall Renewable Energy. Representational image. Credit: Canva In India's dynamic energy landscape, government initiatives and policies have emerged as pivotal drivers propelling the growth of renewable 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.

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.

Why is solar power important in India?

Solar power in India is an essential source of renewable energy and electricity



generation in India. Since the early 2000s, India has increased its solar power significantly with the help of various government initiatives and rapid awareness about the importance of renewable energy and sustainability in the society.

How much solar power does India have in 2024?

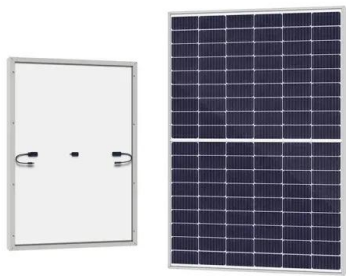
In 2024, solar power comprised nearly 36 percent of India's renewable potential, marking a substantial shift toward a more sustainable and diverse energy mix. The Gujarat Renewable Energy Policy introduced by the state's government sets a target to generate 50 percent of renewable energy by 2030.

Who is responsible for the development of solar energy industry in India?

Solar Energy Corporation of India (SECI), a public sector undertaking, is responsible for the development of solar energy industry in India. Hydroelectricity is administered separately by the Ministry of Power and not included in MNRE targets. India ranks first in terms of population and accounts for 17% of the world's population.



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Solar adoption in India entering "accelerating growth" ...

Solar and wind to meet two thirds of India's power generation growth by FY 2032 NEP14 estimates India's total annual electricity generation to grow by 1,174 TWh in FY 2022-32 period. Annual solar and wind generation ...

[India Has 637 GW of Residential Rooftop Solar ...](#)

Moreover, rural areas show higher technical potential based on residential rooftop area (363 GW) compared to urban areas across states (274 GW). Arunabha Ghosh, CEO, CEEW, said, "India's solar energy ...



[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 Renewable Energy Capacity Hits 200 GW](#)

Solar power leads the way with 90.76 GW, playing a crucial role in India's efforts to harness its abundant sunlight. Wind power follows closely



with 47.36 GW, driven by the vast potential of the coastal and inland wind ...



Renewable Energy Statistics , MINISTRY OF NEW AND RENEWABLE ENERGY , India

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Solar power by country

Yearly solar generation by continent [2] Solar generation by country, 2021 [2] The following table lists these data for each country: Total generation from solar in terawatt-hours. Percent of that country's generation that was solar. Total solar ...



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

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 ...



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

The solar photovoltaic (PV) sector followed closely, employing approximately 318,600 people across both on-grid and off-grid systems. In 2023, India added 9.7 GW of solar PV capacity, ranking fifth globally for new ...



[India Achieves Historic Milestone of 100 GW Solar...](#)

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 ...



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Solar energy made up 61.29% of this renewable capacity and accounted for 22.23% of India's overall installed power capacity. This marked a 29.13% increase compared to the previous year, reflecting the rapid growth in ...



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