

# Distribution of wind power in India



## Overview

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As of 31 March 2025, the total installed wind power capacity was 50. [2] Wind power capacity is mainly spread across the. India's wind energy sector is led by indigenous wind power industry and has shown consistent progress. The expansion of the wind industry has resulted in a strong ecosystem, project operation capabilities and manufacturing base of about 18000MW per annum. of India, and is based in New Delhi. PFI engages in independent evidence-based policy research, data analytics and advocacy in the power sector for a sustainable future of India 2 and acts as a. As the world marked World Wind Day 2025 on June 15, India has crossed a significant milestone, with wind power capacity surpassing 51 gigawatts (GW) as of May, consolidating its position as the fourth-largest wind energy market globally. 5 billion in 2024 with a CAGR of 6.

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### The Rise of Wind Power in India

India possesses eight particularly windy states, including Andhra Pradesh, Gujarat, Karnataka, Madhya Pradesh, Maharashtra, Rajasthan, Tamil Nadu, and Telangana- with total wind ...

### Wind power potential over India using the ERA5 reanalysis

To facilitate such efforts and ease the adoption of renewable energy sources, we estimated the potential for wind energy over India's sovereign territory, including maritime off-shore regions within her ...



### Wind Overview , MINISTRY OF NEW AND RENEWABLE ENERGY

India's wind energy sector is led by indigenous wind power industry and has shown consistent progress. The expansion of the wind industry has resulted in a strong ecosystem, project operation capabilities ...

## Top Wind Energy-Producing States in India (Latest Data 2025)

India has an ambitious goal of 500 GW of renewable energy capacity by 2030 including 140 GW from wind energy. With its vast potential to generate sustainable electricity, wind energy ...



## Overview of the Wind Sector in India

India currently has the fourth highest wind installed capacity in the world. The total installed capacity stands at 44 GW<sup>1</sup> (as on 30th September 2023), accounting for over 10% of the total installed capacity.

## Wind power in India

The table below shows India's year on year installed wind power, annual wind power generation and annual growth in wind power generation since 2006. [14] Wind power generation in India ranks fourth ...



## A Review on Wind Power in India



India is one of the five largest wind energy markets in the world today. Renewable energy sources (excluding large hydro) represent 12.2% of India's installed capacity, with 70% of this contribution ...

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## India Wind Power Sector Digest: Trends, Insights & Pathways

India's Expected to reach 122GW wind capacity by FY32 to ensure energy security. The report revealed that 21 Indian states has taken contract of more than 100GW of wind energy by 2030 to meet the ...



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## India's Wind Energy Milestone: 51 GW Achieved, 2030 Goals ...

India's wind sector has long been affected by policy uncertainty and abrupt regulatory shifts. The move from feed-in tariffs to competitive bidding slashed tariffs, squeezed margins for ...

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## Wind Energy Capacity in India: Trends, Data, and Future Outlook

In 2025, wind projects generate substantial electricity, helping to meet rising power needs and support economic growth. Recent research shows that wind energy capacity in India now accounts for a ...



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