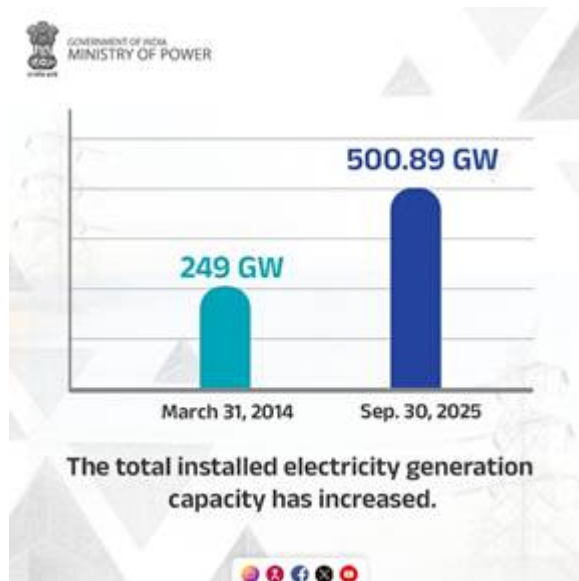


India achieved Historic milestone in power sector: Surpasses 500 GW and Renewable Generation Exceeds 50% of demand

Posted On: 29 OCT 2025 5:46PM by PIB Delhi

India's power sector has achieved two historic milestones that show the nation's steady progress toward a clean, secure, and self-reliant energy future.

As of 30 September 2025, the country's total installed electricity capacity has crossed 500 GW, reaching 500.89 GW. This achievement reflects years of strong policy support, investments, and teamwork across the energy sector.



Break-up of India's Power Capacity.

- Non-fossil fuel sources (renewable energy, hydro, and nuclear): 256.09 GW – over 51 % of the total.
- Fossil-fuel-based sources: 244.80 GW – about 49 % of the total.
- Within renewables:
 - Solar power – 127.33 GW
 - Wind power – 53.12 GW

During FY 2025–26 (April – September 2025), India added 28 GW of non-fossil capacity and 5.1 GW of fossil-fuel capacity — showing how fast the clean energy share is rising.

A Record Day for Renewable Energy

On 29 July 2025, India reached its highest-ever renewable energy share in electricity generation.

That day, renewables met 51.5 % of the country's total electricity demand of 203 GW.

- Solar generation: 44.50 GW
- Wind generation: 29.89 GW
- Hydro generation: 30.29 GW

This means that, for the first time, more than half of India's power came from green sources in a single day — a remarkable sign of change.

Meeting National Targets Ahead of Time

With this progress, India has already achieved one of its major COP26 Panchamrit goals — to have 50 % of installed electric power capacity from non-fossil fuel sources by 2030 — five years early.

This success highlights India's leadership in clean energy transition, achieved while keeping the electricity grid stable and reliable.

Significance of the achievement

India's renewable energy push is creating new employment opportunities in manufacturing, installation, maintenance, and innovation—benefiting both rural and urban youth.

A Collective Effort

The Ministry of Power and the Ministry of New and Renewable Energy (MNRE) congratulate all power generation companies, transmission utilities, system operators, and state agencies for their role in this achievement.

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