



# India Achieves 50% Non-Fossil Fuel Power Capacity

Source: PIB

India's **non-fossil fuel power capacity** has reached **242.78 GW** out of **484.82 GW** total installed capacity, **5 years ahead** of its **2030 target** under the [Paris Agreement's Nationally Determined Contributions \(NDCs\)](#).

## Non-Fossil Fuels:

- **Non-fossil fuels** refer to **energy sources** that are **not derived from fossilized organic matter** such as coal, oil, or natural gas.
  - It includes both **renewable energy sources** (**solar, wind, and hydropower**) and **non-renewable energy sources** (**nuclear**) energy sources.
- As of **June 2025**, India's **total installed electricity capacity** stands at **484.82 GW**, with **50% coming from non-fossil fuel sources**, which includes:
  - **Renewable energy:** 184.62 GW (**38.08%**)
  - **Large hydropower:** 49.38 GW (**10.19%**)
  - **Nuclear energy:** 8.78 GW (**1.81%**)

A. Installed Electricity Capacity by Source as on 30.06.2025 (RE + Large Hydro Combined)

Sector	Capacity (in GW)	Percentage
Thermal	242.04 GW	(49.92%)
Nuclear	8.78 GW	(1.81%)
RE (including Large Hydro)	234.00 GW	(48.27%)
Total	484.82 GW	(100%)

## Key Initiatives Driving the Growth of India's Renewable Energy Capacity:

- **PM Surya Ghar Yojana** promotes **rooftop solar installations** enhancing decentralised clean energy access.
- **National Wind-Solar Hybrid Policy** enabled **hybrid power projects** for optimal land use, grid stability, and cost-effective renewable generation.
- **PM-KUSUM** provides **solar-powered pumps** for agriculture
- **PLI Scheme for Solar PV Modules** encourages **domestic manufacturing of high-efficiency solar modules**.
- **Green Energy Corridor Scheme** strengthens **transmission infrastructure** for **renewable energy**.
- **National Green Hydrogen Mission** promotes production and use of **green hydrogen** as an alternative fuel.
- **National Bioenergy Programme** supports **biogas, biomass, and waste-to-energy** projects.

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