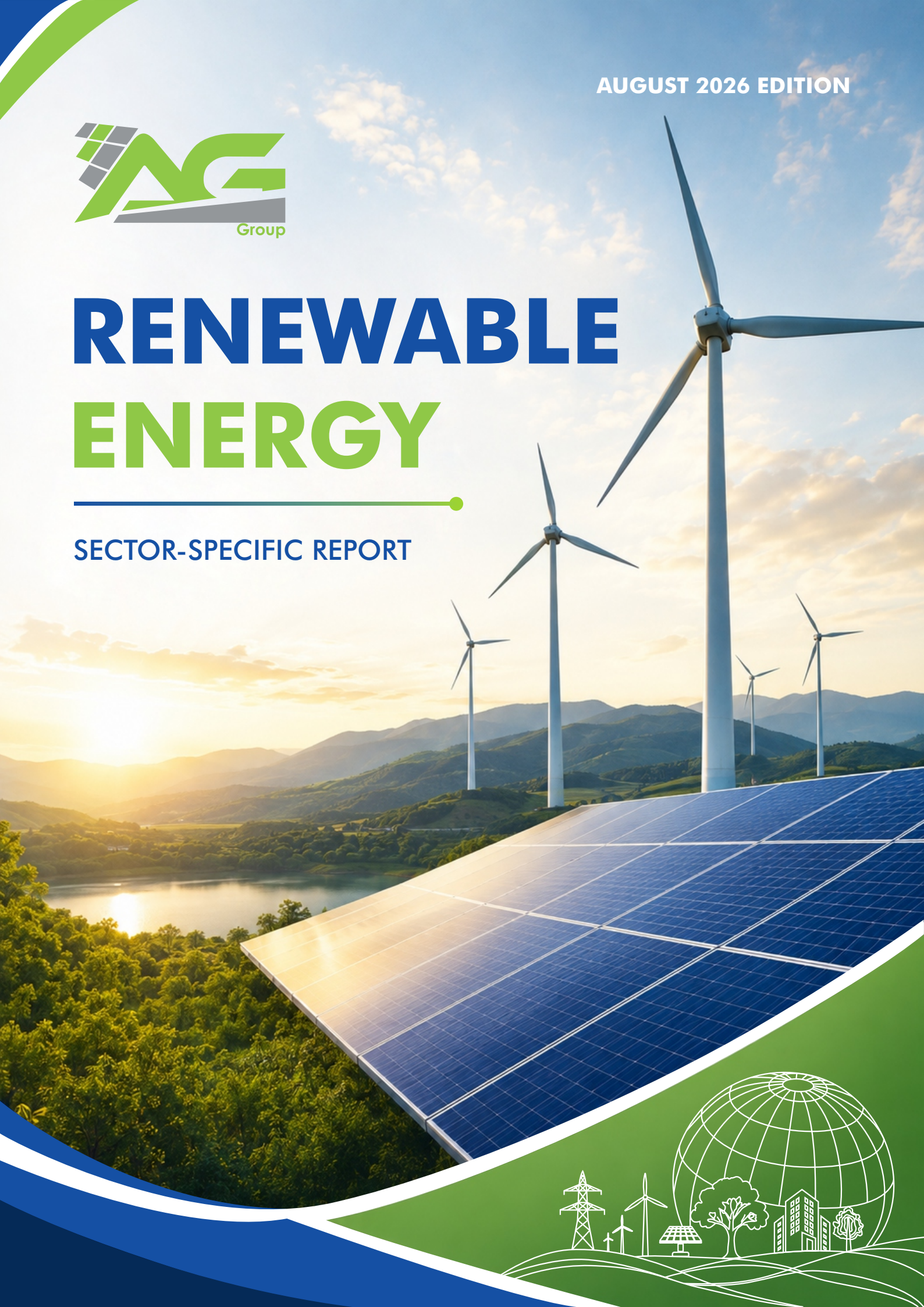


AUGUST 2026 EDITION



RENEWABLE ENERGY

SECTOR-SPECIFIC REPORT



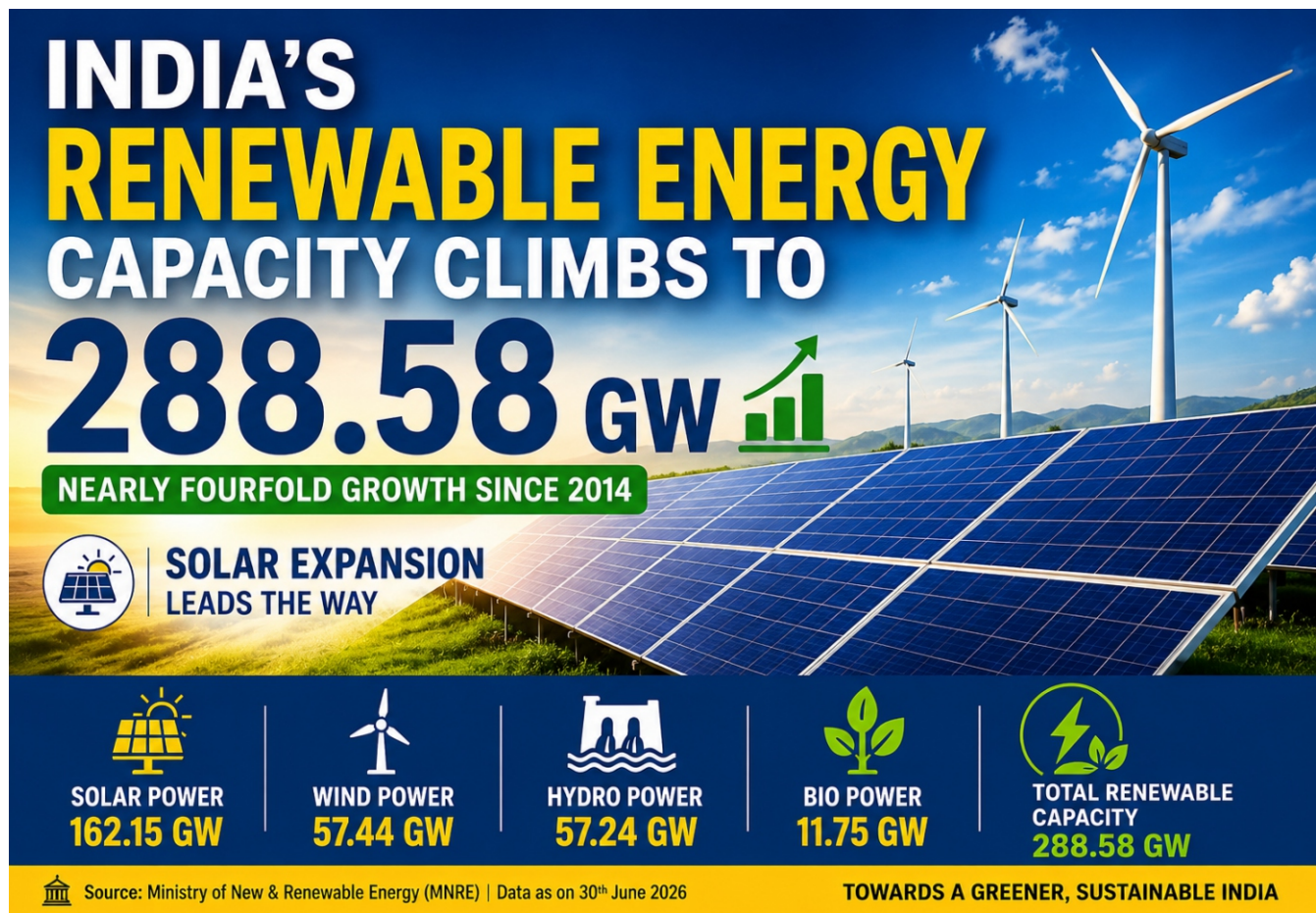
01



India's Renewable Energy Capacity Reaches A Historic Milestone of 288.58 GW



India's renewable energy capacity has grown substantially over the past decade, rising from **76.38 GW in 2014 to 288.58 GW as of June 30, 2026**. The nearly fourfold rise reflects sustained capacity addition, supportive policy measures, increased investment and wider deployment of renewable energy technologies. The achievement reflects the **rising contribution of renewable power to India's electricity sector** and its growing significance for national energy goals.



Source: <https://webnewsaddiction.com/india-renewable-energy-capacity-climbs-288-58-gw/>

Solar power has been the leading contributor to this progress, with installed capacity reaching 162.15 GW. Wind energy has also recorded substantial growth, reaching 57.44 GW, while hydropower and bio power account for 57.24 GW and 11.75 GW, respectively. The expansion across these segments has created a broader renewable energy portfolio, allowing **India to utilize its diverse solar, wind, water and bioenergy resources for electricity generation** across different regions.

The expansion of renewable capacity is helping diversify India's electricity mix while reinforcing efforts to enhance national energy security. Greater availability of renewable power can help reduce reliance on conventional energy sources while supporting the country's wider efforts to expand cleaner electricity generation. The growing deployment of different renewable technologies is also **encouraging the development of associated infrastructure, supply chains and project capabilities needed for future capacity addition**.



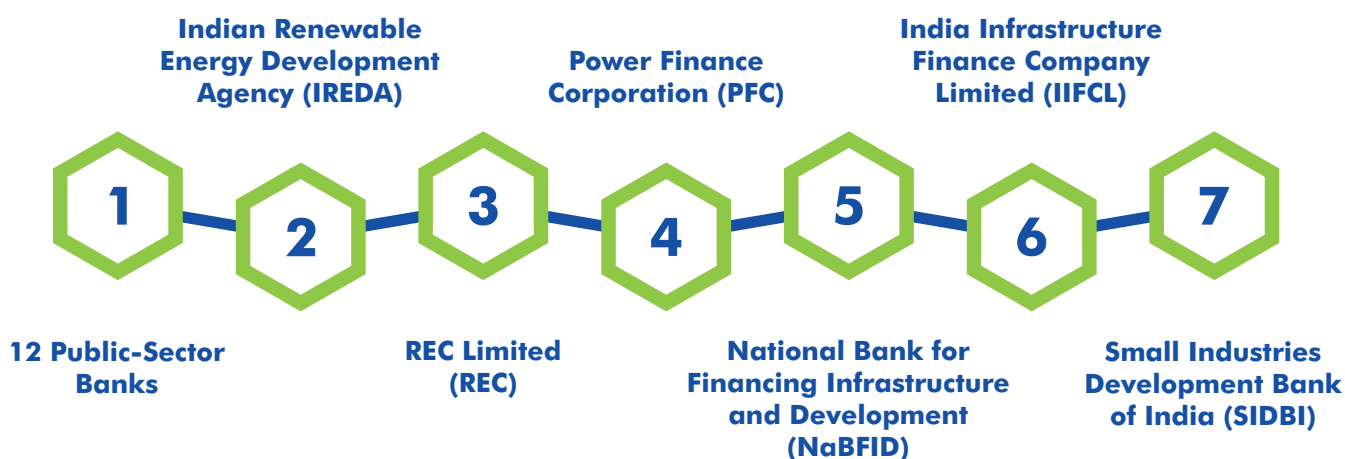
Source: <https://energy.economictimes.indiatimes.com/news/renewable/indias-renewable-energy-installed-capacity-reaches-288-58-gw-from-76-38-gw-in-2014-naik/132538610>

Investment has been an important factor in enabling this progress. Between FY2014 and FY2026, the renewable energy sector attracted approximately **US\$45.72 billion in foreign direct investment**. During the same period, **domestic financial institutions provided Rs 12.32 lakh crore** for renewable energy projects. This financial support has helped facilitate capacity creation and related infrastructure, while improving access to capital for projects and strengthening the sector's investment base.



Source: <https://knnindia.co.in/news/newsdetails/sectors/rec-ltd-to-provide-rs-3-lakh-cr-in-financing-for-renewable-energy-projects-by-2030>

INSTITUTIONAL SUPPORT FOR RENEWABLE ENERGY FINANCING



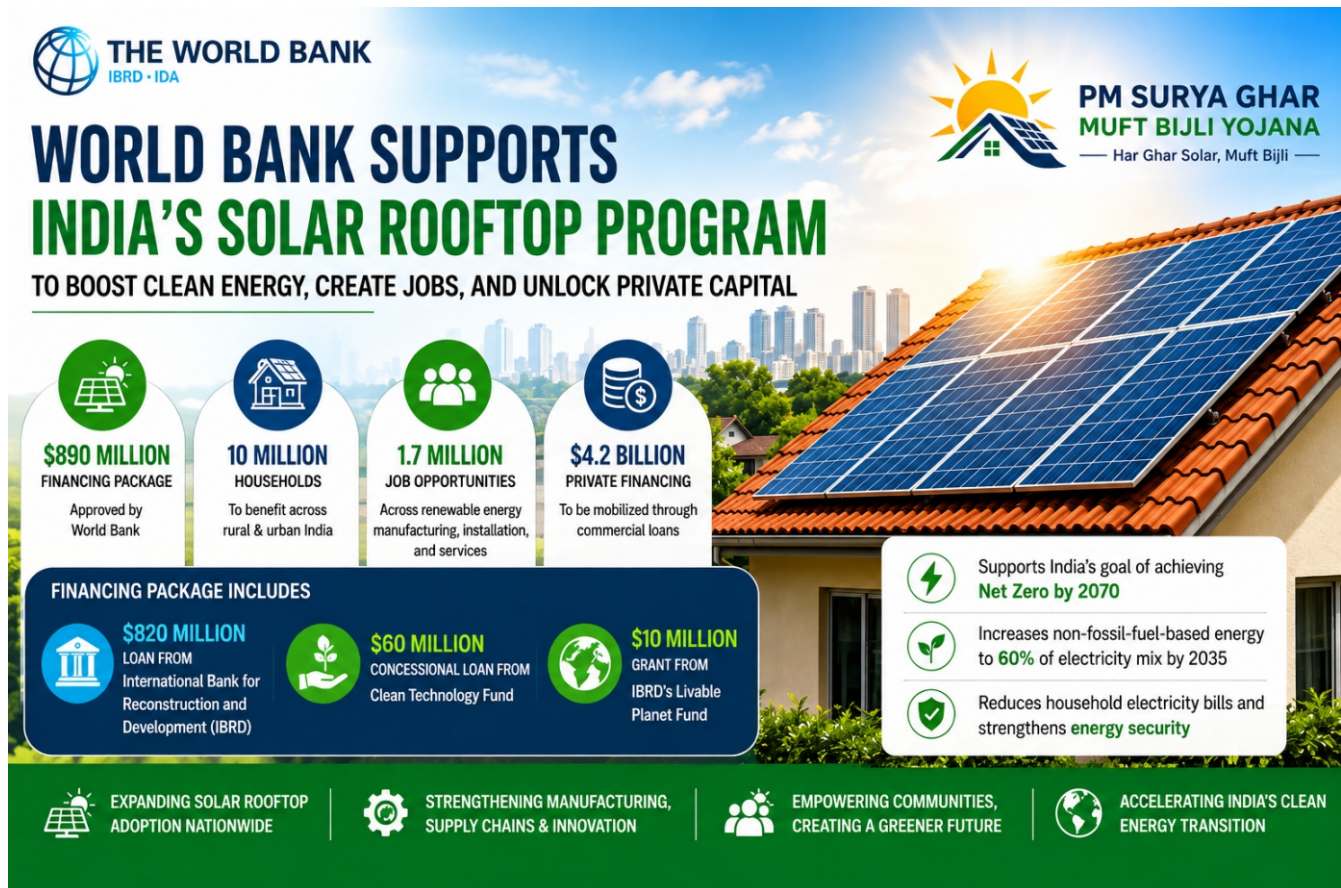
The achievement of 288.58 GW marks an important stage in India's renewable energy development. **Continued capacity addition, supported by investment, financing and enabling policies**, can further expand the role of renewable sources in electricity generation. The progress also provides a stronger base for advancing India's long-term objectives related to energy security, cleaner power and a diversified electricity system.

02

World Bank Supports India's Rooftop Solar Programme for Clean Energy Expansion



India's rooftop solar programme has received a major boost with the **World Bank approving an \$890 million financing package to support the PM Surya Ghar: Muft Bijli Yojana**. The initiative is aimed at expanding household access to solar power, reducing electricity expenses and strengthening distributed generation nationwide. It will focus on accelerating residential installations across rural and urban areas, including remote communities.



Source: <https://www.sarkaritel.com/world-bank-approves-890-million-support-for-india-solar-rooftop-program/>

The financing package comprises an \$820 million loan from the International Bank for Reconstruction and Development, a \$60 million concessional loan from the Clean Technology Fund and a \$10 million grant from the World Bank's Livable Planet Fund. **The World Bank also expects to mobilize \$4.2 billion in private financing through commercial loans for households.** The combined support is intended to address financial barriers and encourage greater participation by households and lenders through improved access.

The programme will cover 10 million rural and urban households across India. Generating electricity at the point of consumption can help households reduce dependence on conventional power sources and manage electricity costs. The initiative will further encourage domestic production of rooftop solar equipment, strengthening local supply networks and capabilities in manufacturing, installation, operation and maintenance. This can create additional industrial opportunities within the sector.



Source: <https://www.thefinancialworld.com/world-bank-approves-financing-for-indias-solar-rooftop-program/>

The programme is expected to create around 1.7 million job opportunities across manufacturing, logistics, installation, operation and maintenance. It can also expand opportunities for businesses and service providers supporting residential solar systems. Alongside household installations, these activities can **contribute to employment generation and the development of a stronger domestic solar industry** with skilled workers, especially in emerging markets.



Source: <https://www.worldbank.org/en/news/press-release/2026/07/09/world-bank-supports-india-s-solar-rooftop-program-to-boost-clean-energy-create-jobs-and-unlock-private-capital>

BUILDING ON INDIA'S ROOFTOP SOLAR PROGRESS



The new initiative builds on the World Bank's earlier support for India's rooftop solar sector and complements the country's wider energy objectives. The financing can expand decentralised power generation while **advancing India's commitment to achieving net-zero emissions by 2070** and increasing non-fossil-fuel energy resources in its electricity mix. It therefore marks another step towards expanding solar power as part of India's long-term energy transition over the coming decade.

**How AG Group Resources
Can Help You**

To enhance implementation and
management of renewable energy projects
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03

Brookfield Launches Lumara With \$600 Million Commitment to India's Renewable Energy Sector



Brookfield has launched **Lumara Energy**, an Indian-focused platform aimed at accelerating the development of renewable power infrastructure. Backed by a \$600 million commitment, the initiative will provide capital and execution support during the early stages of projects. **Lumara will invest in solar, wind and battery storage projects** to strengthen India's clean energy project pipeline.

Brookfield

LAUNCHES



LUMARA

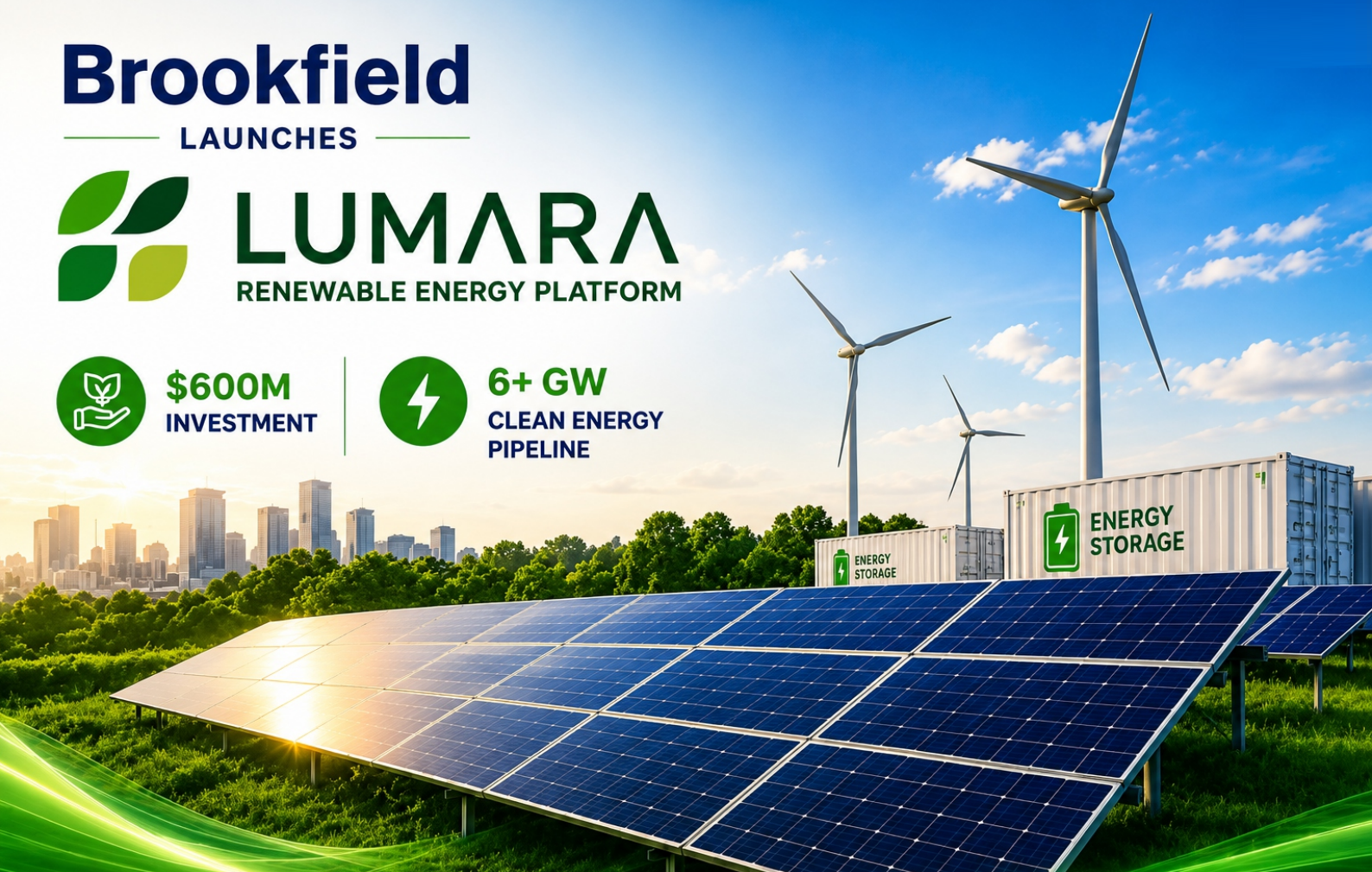
RENEWABLE ENERGY PLATFORM



\$600M
INVESTMENT



6+ GW
CLEAN ENERGY
PIPELINE



Source: <https://netzero.eletsonline.com/2026/08/brookfield-launches-lumara-renewable-energy-platform-commits-600-million-for-india/>

The initiative enters the market with more than 6 GW of renewable projects in its initial portfolio and will work alongside developers to move these projects towards the construction phase. Projects that have secured requirements, including land and grid connectivity, can progress before power purchase agreements (PPAs) are finalized. This approach seeks to **narrow the gap between project planning and construction** while making project execution more efficient.

The platform will provide renewable energy developers with structured financing to support their expansion plans. This support can help developers manage funding needs during the initial stages, when projects often require capital before construction can commence. By supporting projects at this point, Lumara aims to **address challenges involving land acquisition, grid connectivity and PPA contracting** while helping developers move viable projects forward.



Source: <https://resources.convergentep.com/what-you-need-to-know-renewable-energy-credits-for-on-site-solar-pv>

LUMARA'S RENEWABLE ENERGY INVESTMENT FRAMEWORK

1

\$600 MILLION INVESTMENT

Brookfield's commitment through Lumara Energy

2

6+ GW DEVELOPMENT PORTFOLIO

Initial pipeline of renewable energy projects

3

CORE TECHNOLOGIES

Solar, Wind, Battery Energy Storage

4

DEVELOPER FINANCING

Structured credit solutions during project development

5

KEY BOTTLENECKS ADDRESSED

Land, Grid connectivity, PPAs

6

EXPECTED CONTRIBUTION

Faster project execution and expansion of India's clean energy infrastructure

Brookfield is making the investment through its Catalytic Transition Fund, which focuses on energy transition opportunities in emerging markets. The commitment adds to Brookfield's growing renewable energy presence in India, where it has wind and solar assets operational or under development. The company has also established a broader investment footprint in the country across infrastructure, energy, real estate and private equity, reinforcing its interest in India's infrastructure sector.



Source: <https://www.metroindia.net/news/articlenews/brookfield-launches-lumara-targeting-million-deployment-in-india-43350>

The initiative comes as India expands renewable power generation to address rising electricity demand and support its shift towards cleaner energy. Increasing solar and wind capacity, alongside energy storage, requires investment and effective project execution. **Through Lumara, Brookfield is seeking to address financing and development-stage constraints while supporting the expansion of renewable infrastructure.** The investment could help expand renewable capacity while strengthening the country's clean power infrastructure.

04

El Nino-Induced Cooling Demand and India's Electricity Planning



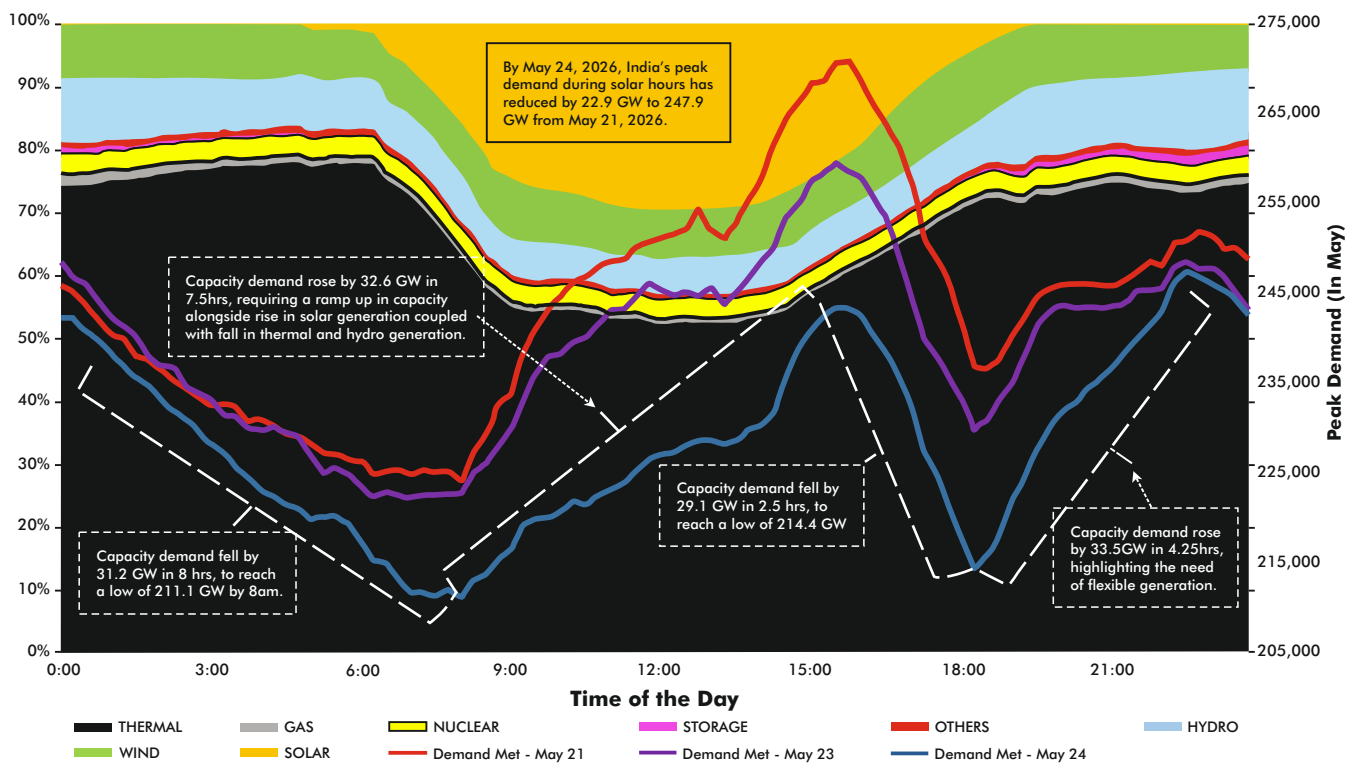
India's electricity planning is facing an added challenge from the developing El Niño conditions in 2026. **The India Meteorological Department (IMD) has reported prevailing El Niño conditions over the equatorial Pacific, with the event expected to strengthen during the southwest monsoon.** For India's power system, higher temperatures associated with such conditions can increase the use of air conditioners, coolers and other cooling equipment, adding to electricity requirements during periods of high demand.



Source: <https://www.downtoearth.org.in/energy/el-ni%C3%B1o-may-reshape-indias-power-planning-as-cooling-demand-overtakes-renewable-shortages>

The pressure on the power system is already evident in recent demand levels. **The Central Electricity Authority (CEA) recorded peak demand met at 270.820 GW in May 2026**, while its 20th Electric Power Survey projects peak electricity demand of 277.2 GW for 2026-27. A stronger cooling load could therefore add to an already high summer peak, making accurate demand forecasting and adequate generation capacity increasingly important for electricity planners.

The planning challenge is not limited to rising consumption. The July 2026 assessments indicate that **El Niño-related changes in rainfall and wind conditions could also affect hydropower and wind generation.** This creates a combined pressure on the power system, with higher cooling demand occurring alongside possible reductions in some renewable sources. The imbalance between electricity demand and renewable power availability could require additional generation capacity to ensure a dependable power supply.



Source: <https://www.downtoearth.org.in/energy/power-demand-tracker-on-may-24-2026-indias-peak-of-2479-gw-came-during-non-solar-hours-at-2236-pm>

KEY POWER-SECTOR INDICATORS UNDER EL NIÑO

COOLING-DRIVEN DEMAND

- Around 10 TWh additional cooling-related electricity demand
- Higher temperatures can intensify electricity use during peak periods

RENEWABLE GENERATION PRESSURE

- Wind and hydropower could face lower generation under weaker wind and rainfall conditions
- Reduced renewable availability could add pressure to the power system

PROJECTED POWER REQUIREMENT

- 17.7 TWh additional fossil-fuel generation in the central scenario
- Up to 24 TWh under a stronger El-Nino scenario

This situation highlights the importance of flexibility in India's electricity planning. **The CEA's National Electricity Plan considers different hourly demand patterns and the contribution of coal, hydro, wind, solar and storage resources in meeting peak requirements.** Such planning becomes particularly important when weather conditions can simultaneously influence electricity demand and renewable generation. Expanding storage, strengthening transmission networks and maintaining flexible generation capacity can help the power system respond more efficiently to these fluctuations.



Source: <https://hartek.com/post/the-el-nino-impact-on-indias-power-grid-lessons-for-2026/>

El Niño therefore adds a climate-related variable to India's electricity planning beyond conventional demand growth. **Preparing for higher cooling requirements while accounting for possible changes in wind and hydropower generation** will require closer integration of weather information with power-demand projections. Strengthening generation adequacy, grid flexibility and demand-side efficiency can help ensure reliable electricity supply as weather-driven changes place greater pressure on the power system.

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05

National Green Hydrogen Mission Awards Pilot Projects for Hydrogen Mobility



The Government of India has awarded **12 pilot projects** under the National Green Hydrogen Mission (NGHM) to accelerate hydrogen-based mobility. The projects will support **70 hydrogen-powered vehicles**, comprising 27 buses and 43 trucks, across 21 routes. The programme will also establish **16 hydrogen refuelling stations** to support vehicle operations and facilitate trials across diverse operating environments. The initiative expands field-level demonstrations of hydrogen as a transport fuel.



Source: <https://knnindia.co.in/news/newsdetails/sectors/energy/centre-awards-12-pilot-projects-for-70-hydrogen-powered-vehicles-under-green-hydrogen-mission>

The projects will support both passenger and freight transport, using Hydrogen Fuel Cell Vehicles (HFCVs) and Hydrogen Internal Combustion Engine (H₂-ICE) vehicles. **Their deployment across selected routes will allow different hydrogen technologies to be assessed under real operating conditions.** The focus on buses and trucks is significant because the National Green Hydrogen Mission identifies heavy-duty and long-distance mobility as important areas for hydrogen use, particularly where conventional fuels remain difficult to replace.

HYDROGEN MOBILITY PROGRAMME – IMPLEMENTATION FOCUS



Vehicle Technologies

- Hydrogen Fuel Cell Vehicles
- Hydrogen Internal Combustion Engine Vehicles



Transport Applications

- Passenger mobility
- Heavy-duty freight transport



Hydrogen Supply & Refuelling

- Hydrogen availability for transport
- Refuelling infrastructure



Performance Assessment

- Vehicle efficiency
- Fuel consumption
- Safety and utilisation



Mobility Scale-up

- Operational evidence
- Infrastructure planning
- Technology selection

The Government has sanctioned Rs 410.77 crore in financial assistance for the 12 projects, with Rs 41.582 crore already released. The funding is being provided in two phases and will support vehicle deployment along with associated refuelling infrastructure. This approach is designed to develop an integrated hydrogen mobility network, rather than evaluating vehicles separately from the infrastructure supporting them.



Source: <https://www.eprmagazine.com/news/india-launches-%E2%82%B9410-crore-green-hydrogen-pilot-projects/>

The pilot projects will generate information on **vehicle efficiency, fuel consumption, safety and utilization**. Implementing agencies are required to provide regular performance data, enabling the Government to assess the operational and economic feasibility of hydrogen-powered transport. The results can help identify infrastructure requirements, suitable technologies and other factors that may influence future deployment.



Source: <https://www.pib.gov.in/PressReleasePage.aspx?PRID=2188865®=48&lang=2>

The July 2026 awards strengthen the mobility component of the National Green Hydrogen Mission and broaden the scale of ongoing hydrogen transport demonstrations. By combining 70 vehicles with dedicated refuelling infrastructure across 21 routes, the projects provide a wider base for testing hydrogen mobility in India. The experience from these demonstrations can support future decisions on scaling hydrogen-powered transport and developing the infrastructure needed for its wider adoption, and help assess practical requirements for safe, reliable and efficient operations at scale.

07

Eminent Insight



"India should not merely become one of the world's largest consumers of clean energy technologies. India must become one of the world's leading producers of the equipment, materials and technologies that will drive the global energy transition."

Shri H.D. Kumaraswamy
Union Minister for Steel and Heavy Industries
Government of India



Resources



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Sector 56
Gurugram - 122011



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SYNERGY HUB:

B-4/19,
Safdarjung Enclave,
New Delhi-110029

CORPORATE OFFICE:

609,
Pearls Best Height - 2,
Netaji Subhash Place,
New Delhi



DIMAPUR

2nd Floor/no.419, 3rd mile
Darogapathar, Block D,
Nagarjan Junction.
Chumukedima- 797115



GUWAHATI

Krine Vista, Flat - 5B, Block B,
Ananda Nagar, Bye Lane 3,
Opp. Anil Plaza, G S Road,
Guwahati - 781005, Assam



HYDERABAD

202, Zeenath Residency,
Srinagar Colony, Panjagutta,
Hyderabad - 500073



IMPHAL

Unit-6, Second Floor Customs,
Office Building, Sangakpham,
Opp. Dav School, Imphal,
Imphal East Manipur - 795010



info@aggrp.in



www.aggrp.in



+91 9810046249



0124 4235267

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