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INDIA

India achieves 50% non-fossil fuel power generation capacity 5 years ahead of 2030 target

Economic Times July 14, 2025

India has crossed a major energy milestone by achieving 50.08% of its total installed electricity generation capacity from non-fossil fuel sources five years ahead of its 2030 goal under the Paris Agreement

As of June 30, 2025, the country's total capacity stood at 484.82 GW, with 242.78 GW sourced from renewables (~184.6 GW), large hydro (~49.4 GW), and nuclear (~8.8 GW) Thermal (coal, gas, other fossil) power capacity remains at 242.04 GW, just under 50%

This accelerated transition results from flagship initiatives like PM-KUSUM, PM Surya Ghar: Muft Bijli Yojana, solar parks, the National Wind-Solar Hybrid Policy, and rapid bioenergy expansion Private sector developers have also been instrumental, driving scale-up and investment in clean energy infrastructure.

While installed capacity has reached parity, fossil fuels still dominate actual power generation, with coal supplying over two-thirds of electricity output in 2024. India continues targeting 500 GW of non-fossil capacity by 2030 and broader decarbonization efforts including green hydrogen, battery storage, and circular energy systems.

India's Power Consumption Grew Marginally in July 2025 Amid Heavy Monsoon

Energy World August 01, 2025

In July 2025, India's electricity consumption rose modestly by **2.6% year-on-year**, reaching **153.63 billion units** up from 149.65 BU in July 2024 This

subdued growth is attributed to the early and intense **monsoon rains**, which cut back demand for **cooling appliances** such as air conditioners and desert coolers.

Peak daily power demand dipped slightly to about **220.59 GW**, compared to 226.63 GW in July 2024, reflecting the cooling effect of widespread rainfall. The **monsoon reached the Kerala coast on May 24**, eight days earlier than normal, helping suppress peak temperatures and electricity usage across the country. Despite expectations of rising demand, the softer power growth underscores how **weather patterns remain a key driver** of electricity consumption trends in India.

Government to Open Up India's Atomic Energy Sector, Akin to Space Reform Push

Livemint July 25, 2025

India is set to overhaul its nuclear energy sector, modeling reforms after the successful liberalization of the space industry, according to P. K. Mishra, Principal Secretary to the Prime Minister. Speaking at the BARC Training School graduation, Mishra outlined a vision to expand nuclear capacity from the present 8.7 GW to 100 GW by 2047.

Central to this initiative are proposed amendments to the Civil Liability for Nuclear Damage Act, 2010, intended to pave the way for private sector participation in building and operating atomic energy plants. The 2024–25 Union Budget further backs this transition, allocating ₹1 trillion for R&D in Bharat Small Modular Reactors (SMRs) and advanced nuclear technologies.

P. K. Mishra emphasized the need for low-cost finance, regulatory reform, timely execution, and leveraging private investment to improve cost-efficiency and make nuclear power more competitive. He also underscored the importance of robust safety governance via the AERB and BARC Safety Council, and the need to boost public confidence in nuclear energy expansion.

In addition, Mishra highlighted nuclear science's broader societal benefits like uses in cancer care, agriculture, and water treatment and encouraged the commercialization of spin-off technologies from public research institutions.

These reforms aim to transform India's nuclear sector from a state-held domain into a collaborative, innovation-driven ecosystem poised to support clean energy targets and sustainable growth.

WORLD

China Emerges as Global Leader in Green Energy: Scale, Supply Chain & Strategy

The Hindu July 18, 2025

China's commanding position in the global green energy arena, driven by decades of strategic state planning, massive investments, and comprehensive supply chain control.

- Record-breaking capacity expansion: In 2024, China deployed over 300 GW of new solar power, exceeding the total of all other countries combined, positioning it as the world leader in wind and solar installations.
- Supply chain dominance: Chinese firms produce over 80% of the world's solar panels, control critical battery materials like lithium and cobalt, and lead the full renewable value chain from raw materials to finished products.
- Massive financial commitment: China invested between \$625 billion and \$940 billion in clean energy in 2024, dwarfing the U.S. and reinforcing its industrial dominance.
- State-led execution: State-owned enterprises, backed by stable policy frameworks and green bond markets, have spearheaded large-scale wind and solar projects transforming China into a cleantech powerhouse.

China's green energy model is now exporting globally through infrastructure projects, while cost advantages, industrial strength, and policy consistency have reinforced its geopolitical and economic leadership in the clean energy transition.

EU Sanctions Trigger Resignation and Operational Disruption at Russia-Backed Nayara Energy

Times Of India July 25, 2025

Recent EU sanctions targeting Nayara Energy, due to its 49.13% Russian ownership via Rosneft, have triggered major operational disruptions and leadership upheaval at India's third-largest refinery in Vadinar, Gujarat.

- CEO Alessandro des Dorides resigned following the sanctions, and was succeeded by long-time executive Sergey Denisov, appointed by the board.
- Further shakeups included the resignations of three directors and the HSE head, largely due to their European nationality and the EU-linked pressure.
- Operations at the 400,000 bpd refinery have shrunk to 70–80% of capacity, as traders shunned contracts and shipments were rerouted including tankers bypassing Vadinar altogether.
- Major shipping firms have sought to terminate contracts with Nayara, citing compliance risks; Microsoft suspended IT services, forcing the company to temporarily switch to local provider Rediff.com and file legal challenges

These developments reflect deep disruption in Nayara's export-driven operations and broader implications for India's fuel trade amid tightening global sanctions.

Peru Invites Indian Investment in Rare Earths as Free Trade Deal Nears by Early 2026

Business Standard July 28, 2025

Peru has extended a strategic invitation to Indian companies to invest in its rare earth minerals sector, focusing on elements like neodymium, praseodymium, dysprosium, and terbium, which are critical to India's electric vehicle, wind, electronics, and defense ambitions. The initiative aims to position Peru as a non-Chinese, reliable source of these critical materials.

Bilateral trade between the two countries has surged growing from \$2.34 billion in 2019–20 to about \$4 billion by 2023–24 and India is now Peru's third-largest trading partner in the Latin American and Caribbean region. Both nations are close to finalizing a Free Trade Agreement (FTA), expected to be signed by late 2025 or early 2026, which is anticipated to unlock opportunities in clean energy, mining, logistics, technology, and pharmaceuticals.

Peru, with its strategic Pacific port infrastructure, also offers potential for collaboration in logistics and maritime services, promising shorter delivery times and lower shipping costs for Indian firms expanding into Latin America.

The Energy Forum, a New Delhi based Independent think tank, conducts intensive research and consults on a wide range of issues related to the global energy sector, with focus on energy space. It aims to put collective knowledge and experience in making the planet a better place to live in by formulating new paradigms for sustainable transitions and engendering robust developmental narratives. TEF is supported by a network of scientists, economists, policy makers, diplomats, researchers and academics considered experts in their respective fields.



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