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INDIA

India Energy Stack: Power Ministry Charts Digital Future of Energy Sector

[Press Information Bureau](#) June 28, 2025

The Ministry of Power has launched a task force to develop the **India Energy Stack (IES)**, a groundbreaking digital public infrastructure aimed at creating a unified, secure, and interoperable backbone for the power sector. As India advances toward a \$5 trillion economy and its Net Zero goals, the IES will address existing digital fragmentation by enabling seamless data sharing, system integration, and innovation.

Key features of IES include:

- Unique IDs for consumers, assets, and transactions
- Real-time, consent-based data exchange
- Open APIs for system interoperability
- Tools to enhance consumer participation and energy market innovation

To demonstrate its real-world applicability, a 12-month **Proof of Concept (PoC)** will be carried out with selected utilities. This includes piloting the **Utility Intelligence Platform (UIP)**, a data-driven tool offering real-time insights for smarter energy management.

A multi-disciplinary **Task Force** of experts from technology, energy, and regulatory fields will oversee the development, implementation, and scale-up of IES, ensuring it becomes the digital foundation of India's evolving energy ecosystem.

Union Minister Highlights Wind Energy as Key Pillar of India's Renewable Future on Global Wind Day

[Press Information Bureau](#) June 15, 2025

Speaking at the Global Wind Day 2025 Conference in Bengaluru, **Union Minister for New and Renewable Energy, Shri Pralhad Joshi**, reaffirmed India's strong

commitment to wind energy, calling it central to the country's renewable energy roadmap.

He highlighted that India now manufactures wind turbines ranging from **225 kW to 5.2 MW, with 33 models developed by 14 companies**, meeting both domestic and international market demands at competitive costs.

To fully harness India's wind energy potential, the Minister outlined five key priorities:

- **Expanding wind power** into new states like **Madhya Pradesh, Telangana, and Odisha**
- **Launching offshore wind** projects, with **4 GW** of leasing areas identified in **Gujarat and Tamil Nadu**
- **Integrating wind power** into round-the-clock green energy supply through **storage-linked models**
- **Upgrading grid infrastructure** and using **AI-based forecasting** to manage variability
- **Strengthening local manufacturing** across the entire wind energy value chain.

These steps aim to create a coordinated national effort to scale up wind energy and solidify India's leadership in the global renewable sector.

Indian Oil to Build India's Largest Green Hydrogen Plant at Panipat by 2027

[Economic Times](#) June 01, 2025

Indian Oil Corporation Ltd. (IOCL) has announced plans to set up **India's largest green hydrogen plant** at its Panipat Refinery in Haryana, marking a major step in the country's clean energy transition.

The upcoming facility will produce **10,000 tonnes of green hydrogen annually**, replacing fossil-based hydrogen currently used in refinery operations. This move aligns with IOCL's broader **decarbonization strategy** and supports the goals of **India's National Green Hydrogen Mission**.

Key aspects of the project include:

- Replacement of grey hydrogen with renewable-powered green hydrogen
- **Levelized Cost of Hydrogen (LCoH)** calculations completed
- Significant potential to reduce carbon emissions in industrial processes
- **Commissioning expected by December 2027**

This milestone project positions IOCL as a front-runner in India's **industrial green hydrogen** sector, reinforcing its commitment to sustainable energy and climate goals.

WORLD

Germany Shifts Gears: Automakers Move from Hydrogen to All-Electric Vehicles

[Eco News](#) June 04, 2025

German automakers, particularly **Audi**, are moving away from hydrogen fuel cell technology and prioritizing **battery-electric vehicles (BEVs)** as the core of their future strategy. Audi plans to **phase out all combustion-engine models by early 2026**, replacing them with electric versions of key models like the **A3, A4, and Q-series SUVs**.

This shift is driven by several factors:

- **High infrastructure and production costs** of hydrogen technology
- **Lower efficiency** of hydrogen fuel cells compared to BEVs
- **Better scalability and faster deployment** of electric vehicles using existing power grids

Hydrogen is now being confined to **niche or long-term applications**, while BEVs are emerging as the practical choice for mass adoption.

In essence, Germany's leading carmakers are betting on electrification as the **most viable and efficient** route to decarbonize transportation and lead the future of mobility.

India Strengthens Energy Security Amid Gulf Crisis with Russian and U.S. Oil Imports

[Tribune India](#) June 23, 2025

With tensions rising between **Iran and Israel** and fears of disruption at the **Strait of Hormuz**, a key passage for 20% of global oil trade, India **has diversified its crude import strategy** to reduce reliance on Gulf suppliers.

Key developments include:

- **Russian oil imports surged to 2.0–2.2 million barrels per day** in June 2025, surpassing Gulf volumes
- **U.S. shale oil imports increased**, providing added flexibility and supply security
- Russia now meets **over one-third of India's oil demand**, offering **discounted rates** and bypassing Hormuz-related risks
- The move helps avoid **freight and insurance cost spikes** tied to Middle East instability

This strategic shift ensures greater **energy resilience** for India and supports **supply chain diversification** in the face of geopolitical volatility in the Gulf region.

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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