



Hydrogen Association of India

HAI Newsletter

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Editorial Committee

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The environmental benefits of hydrogen are also outstanding. When used as an energy source, hydrogen produces no emissions besides water. Zero Polluting emissions, an amazing advance over the current sources of energy that we use.

-Dan Lipinski

GH2 India Inducted into Global Hydrogen Industrial Association Alliance (GHIAA)



In late 2025, the Green Hydrogen Association (GH2 India) was inducted into the Global Hydrogen Industrial Association Alliance (GHIAA) at its 8th general meeting in Seoul. GHIAA is a global coalition of national hydrogen organisations working to advance hydrogen policies, standards, trade, and technology cooperation. GH2 India's membership provides India's green hydrogen industry a direct voice in international forums and access to working groups on standards, certification, market creation, and offtake frameworks. Represented by its CEO, GH2 India emphasized that the move will strengthen India's policy influence, enable international R&D partnerships, including with H2 Korea, and improve the global competitiveness of Indian green hydrogen projects.

Ref : [linkedin.com](https://www.linkedin.com/company/green-hydrogen-association-india/)

India's First Hydrogen-Powered Train Nears Launch (Jan 2026)



India is about to launch its first hydrogen-powered train as a pilot project on the Jind–Sonipat route in Haryana, marking a major milestone in the country's push toward green hydrogen mobility. The project, led by Indian Railways in partnership with RDSO and industry partners, uses green hydrogen produced at a dedicated plant in Jind that is now in its final commissioning phase. The train is designed to help cut diesel use and carbon emissions on non-electrified routes and will travel roughly 90 km between Jind and Sonipat. Officials report modern passenger amenities and quiet, eco-friendly operation. Final safety tests and approvals are underway, and trial runs are scheduled to begin from late January 2026 — a step that could transform rail transport in India's clean energy transition.

Hydrogen Buses to Run Clean Route to Taj Mahal



The Yamuna Expressway Industrial Development Authority (YEIDA) is set to launch hydrogen-powered buses to establish a clean public transport link between Noida Sector 35 and Agra ISBT via the upcoming Noida International Airport. These buses will operate on green hydrogen supplied by NTPC Limited's NETRA facility, offering a zero-emission alternative to conventional diesel coaches. Each air-conditioned bus can travel about 600 km on a single hydrogen refill, reducing pollution and improving comfort for Taj Mahal tourists and airport passengers. YEIDA plans daily operations with advanced safety features such as GPS tracking and onboard cameras. Operators are being finalized through a bidding process closing in late January 2026, marking a significant step toward sustainable intercity transport in Uttar Pradesh using hydrogen.

Ref : [economictimes.indiatimes.com](https://www.economictimes.indiatimes.com)

Ref : [economictimes.indiatimes.com](https://www.economictimes.indiatimes.com)



MNRE Says India Can Capture 10% of Global Green Hydrogen Demand by 2030

INDIA TARGETS 10% SHARE IN GLOBAL GREEN HYDROGEN DEMAND BY 2030



In November 2025, the Ministry of New and Renewable Energy (MNRE) said India is on track to capture 10% of global green hydrogen demand by 2030, as stated by Union Minister Shripad Y. Naik at ICGH-2025 in New Delhi. With nearly 260 GW of non-fossil fuel capacity, India can convert low-cost solar and wind energy into clean hydrogen for industry, transport, and exports. Under the National Green Hydrogen Mission, incentives worth ₹17,000 crore support electrolyser manufacturing and hydrogen production, with over 3,000 MW of electrolyser capacity and 862,000 tpa of green hydrogen already awarded. This highlights India's ambition to become a major global producer and exporter of green hydrogen by the decade's end.

Ref : www.energetica-india.net

US's First Green Hydrogen Production, Storage & Combustion System Comes Online



In early January 2026, Duke Energy Florida unveiled the DeBary Hydrogen Production Storage System, the first full-cycle green hydrogen facility in the United States capable of producing, storing, and using green hydrogen in one integrated setup. The project is powered by an existing 74.5 MW solar plant in Volusia County, Florida, which provides renewable electricity to two 1 MW electrolyser units that split water into hydrogen and oxygen. The produced green hydrogen is stored on-site in reinforced containers and can be supplied to an upgraded combustion turbine operating on a natural gas-hydrogen blend or entirely on green hydrogen. This system enables continuous use of renewable energy, even during low solar availability, addressing intermittency challenges while supporting grid stability with zero-carbon fuel.

Ref : h2-view.com

Port-Based Green Hydrogen Hubs Announced



In December 2025, the Indian government identified major coastal ports as future Green Hydrogen Hubs under the National Green Hydrogen Mission to strengthen the clean fuel ecosystem. Ports such as Deendayal (Gujarat), Paradip (Odisha), and V.O. Chidambaranar (Tamil Nadu) were chosen for their access to renewable energy, industrial clusters, and export logistics. These hubs will integrate large-scale green hydrogen production, storage, distribution, and exports of derivatives like green ammonia. By clustering renewable power, electrolyser plants, and port infrastructure, India aims to support domestic decarbonisation in sectors such as fertilizers, steel, and shipping, while serving global markets. This move supports India's ambition to become a global green hydrogen supplier.

Ref : www.mercomindia.com

India Launches Hydrogen Fuel-Cell Vessel in Varanasi



In December 2025, India launched its first fully indigenous hydrogen fuel-cell passenger vessel on the Ganga River at Namo Ghat, Varanasi, marking a major step toward clean inland waterways transport. The 24-meter long catamaran, developed with Indian technology, uses green hydrogen fuel cells that produce electricity with zero emissions — only water vapor — leading to an eco-friendly journey for up to 50 passengers.

Flagged off by Union Minister Sarbananda Sonowal, this vessel runs up to 8 hours on a hydrogen fill, helping reduce fossil fuel use and carbon pollution while boosting sustainable tourism on India's sacred river.

Ref : pib.gov.in



Plug Power launches 5 MW electrolyzer installation for H2 Hollandia



Plug Power, a global leader in hydrogen solutions, has launched a 5 MW electrolyzer for its H2 Hollandia project in Europe. The system will produce green hydrogen using renewable energy, supporting decarbonization in industrial and transport sectors. It will help scale hydrogen production to meet growing demand from heavy transport, manufacturing, and energy storage. Through this deployment, Plug Power aims to strengthen its presence in the European hydrogen market and accelerate clean fuel adoption. The H2 Hollandia project demonstrates the company's commitment to expanding electrolyzer infrastructure, supporting climate goals, creating jobs, attracting investment, and strengthening Europe's role in the global hydrogen economy.

Ref : www.indianchemicalnews.com

Vinssen Launches South Korea's First Hydrogen Fuel Cell Ship



South Korea's clean technology company Vinssen has launched Hydro Zenith, the country's first hydrogen fuel cell-powered maritime vessel. The ship was unveiled on 18 December 2025 at Vinssen's test facility in Yeongam, attended by government, industry, and research representatives. Hydro Zenith is a 17.4-metre aluminium leisure vessel weighing 32 tonnes, powered by two 100 kW hydrogen fuel cells and four 92 kWh lithium-ion batteries operating in hybrid mode. The system enables zero-emission propulsion, producing only water and heat, and allows speeds of up to 20 knots (37 km/h). Certified under national maritime safety standards, the project supports future hydrogen-based maritime mobility and low-carbon shipping solutions.

Ref : Fuelcellsworks.com

Industry Push for Green Hydrogen in Steel Sector



India's steel industry is increasingly promoting green hydrogen to decarbonise one of the country's most carbon-intensive sectors. Ahead of the Union Budget 2026–27, industry body Associated Chambers of Commerce and Industry of India (Assocham) urged the government to support hydrogen-based direct reduced iron (DRI) production through incentives and concessional green finance. Rising raw material costs and pressure to cut carbon emissions are pushing steelmakers to replace coal with hydrogen as a clean reducing agent. Green hydrogen-based DRI enables low-carbon "green steel" aligned with India's climate goals. This advocacy highlights the sector's readiness to adopt green hydrogen technologies and accelerate sustainable industrial transformation.

Ref : www.business-standard.com

Germany's Post-FID Green Hydrogen Capacity Nears 1 GW, But Early-Stage Projects Wane



Germany's green hydrogen sector shows mixed progress, with projects that have reached Final Investment Decision (FID) or are under construction totaling nearly 1 GW of capacity, making it one of Western Europe's leading markets. This growth reflects increasing maturity, as developers and investors move from planning to active construction. However, analysts note a decline in early-stage projects at the FEED or concept level, indicating fewer new initiatives entering the pipeline. While the near-term outlook remains strong, the slowdown in early-stage development could weaken long-term growth and innovation. Experts warn that sustained policy support, clearer regulations, and improved financing will be essential to maintain momentum and ensure continuous expansion of Germany's green hydrogen economy.

Ref : h2-view.com



VOCPA Signs ₹42,000 Crore MoU for Green Hydrogen & Ammonia Development at Tuticorin Port



V.O. Chidambaranar Port Authority (VOCPA), Tuticorin signed a major Memorandum of Understanding (MoU) worth over ₹42,000 crore during India Maritime Week 2025. This agreement focuses on the development of green hydrogen, green ammonia, and related industrial infrastructure at and around the port region. The MoU aims to attract large-scale investments for setting up hydrogen production units, storage facilities, pipelines, bunkering systems, and export-oriented infrastructure. These projects will support India's National Green Hydrogen Mission and help reduce carbon emissions in shipping, industry, and energy sectors. VOCPA's strategic location and port connectivity make it suitable for hydrogen exports and clean energy-based industries. The initiative is expected to generate employment opportunities, boost port-led industrialization, and strengthen India's position as a global hub for green hydrogen production and export. Overall, this MoU marks an important step toward sustainable maritime development and clean energy transition in India. [Ref :www.indianchemicalnews.com](http://www.indianchemicalnews.com)

Germany's Post-FID Green Hydrogen Capacity Nears 1 GW, But Early-Stage Projects Wane



Germany's green hydrogen sector shows mixed progress, with projects that have reached Final Investment Decision (FID) or are under construction totaling nearly 1 GW, placing it among Western Europe's leading markets. This indicates growing maturity, as companies and investors move from planning to actual project development. However, a decline in early-stage projects in FEED or concept phases suggests fewer new initiatives are entering the pipeline. Analysts caution that although the near-term outlook remains strong, reduced early-stage activity could limit long-term growth and innovation. Without stronger policy support and improved financing, sustaining continuous development in Germany's hydrogen economy may become increasingly challenging over time.

[Ref : h2-view.com](http://h2-view.com)

Up Coming Events

3rd Green Hydrogen India Symposium (GHIS)

Jan 23, 2026, Le Méridien, New Delhi-India

India Energy Week 2026

Jan 27-30, 2026, Goa, India

World Hydrogen & Carbon Americas 2026

March 10-12, 2026, Houston, USA.

GH2 India Exhibition & Conference

08-10 April 2026

Yashobhoomi Convention Centre, Dwarka, New Delhi

2nd Annual Hydrogen & Fuel Cells 2026

2 – 3 February, 2026 Munich, Germany



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