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12th Edition

GREEN HYDROGEN IN INDIA

A Pathway to Energy Security

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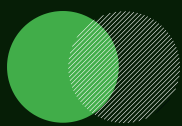
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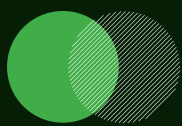
Mission

- Green hydrogen is emerging as a key pillar of India's transition towards a low-carbon and energy-secure economy, with increasing focus on developing a domestic production and manufacturing ecosystem. Its application in decarbonisation of hard-to-abate energy-intensive sectors becomes especially important considering the global energy crisis and evolving geopolitics.
- Renewable energy developers are increasingly expanding into integrated green hydrogen and derivatives production, while domestic manufacturing plans for electrolyzers and associated equipment are scaling up rapidly. India is also positioning itself as a competitive supplier in the global green hydrogen and derivative market as countries across Europe and Asia seek reliable low-carbon fuel sources growing concerns over energy security and fossil fuel market volatility.
- India's green hydrogen ecosystem has policy and regulatory progress over the past year. The Ministry of New and Renewable Energy (MNRE) recently notified separate standards for green ammonia and green methanol, building on the previously announced green hydrogen standards. Further, the launch of the Green Hydrogen Certification Scheme of India marks a significant step towards establishing a national framework for measuring and verifying the greenhouse gas intensity of domestically produced hydrogen. These initiatives are being complemented by existing incentives for green hydrogen and electrolyser production, along with the waiver of interstate transmission system charges renewable energy used green hydrogen projects.
- Falling renewable energy costs, advancements in electrolyser technologies and rising global demand for low-carbon fuels and derivatives are strengthening the business case for green hydrogen in India. The sector is now moving beyond policy intent and pilot projects towards tangible on-ground implementation.
- Green hydrogen projects are now being commissioned across the steel, refinery and industrial manufacturing sectors. Further, the conclusion of the green ammonia tender for the fertilizer industry was a major milestone. SECI has already signed supply agreements for green ammonia with fertilizer companies, paving the way for significant capacity additions over the next few years.
- Despite the growing momentum, several challenges continue to constrain large-scale adoption. High production costs, limited long-term demand visibility and gaps in storage, transportation and port infrastructure remain key concerns. Going forward, availability of affordable round-the-clock renewable power, stronger domestic demand creation, greater policy certainty, regular auction mechanisms and coordinated infrastructure planning will be essential for scaling the sector and achieving the targets under the National Green Hydrogen Mission.
- This two-day conference will provide a platform for policymakers, regulators, state agencies, renewable energy developers, large industrial consumers, oil and gas companies, electrolyser manufacturers, transport players, technology providers, researchers, consultants, legal firms and investors to deliberate on policy measures, upcoming projects, early experiences and plans of stakeholders, technology development, cost economics, export potential existing opportunities in the green hydrogen space.

Who Should Attend

The conference will bring together senior executives, policymakers and industry experts from:

- Green hydrogen and green ammonia developers
- Renewable energy developers and power producers
- Oil & gas companies
- Refining, fertiliser, steel, chemical and cement companies
- Electrolyser manufacturers and component suppliers
- Technology providers and solution providers
- EPC contractors and project developers
- Power utilities and transmission companies
- Energy storage providers
- Port operators and logistics companies
- Industrial gas companies
- Engineering and technical consultants
- Financial institutions, banks and infrastructure financiers
- Private equity, venture capital and investment firms
- Government agencies, policymakers and regulators
- Research institutions and academia
- Legal and advisory firms
- Carbon market and sustainability professionals



Tentative Agenda

Market Review and Outlook

- What is the long-term market potential for green hydrogen and its derivatives in India and globally? Which sectors will drive future demand?
- What key advantages can help position India as a competitive global hub for green hydrogen production and exports in the energy crisis?
- How does India compare with other leading markets in terms of policy support, cost competitiveness, infrastructure and export readiness?

Developers' Strategies and Project Execution Outlook

- What are developers' expansion plans across green hydrogen, green ammonia and derivatives markets in India and overseas?
- What have been the keys from early-stage project execution, and what challenges continue to impact project viability and offtake?
- What further policy, infrastructure and market support measures are required to accelerate large-scale project deployment?

Electrolyser Technologies and Domestic Manufacturing

- Which electrolyser technologies are expected to gain the most traction in the Indian market, and how are technology preferences evolving?
- How is India's domestic electrolyser manufacturing ecosystem developing in terms of capacity expansion, localisation and supply chains?
- What are the key challenges related to costs, technology access and demand visibility? How can India strengthen its manufacturing competitiveness?

Green Hydrogen Adoption Across End-Use Sectors

- What are the sectors emerging as the key adopters of green hydrogen in India, including refineries, fertilisers, steel, heavy transport and other hard-to-abate industries? What factors are driving adoption?
- How are government policies, pilot projects and incentive mechanisms supporting the
- use of green hydrogen across industrial and mobility applications, and what are the key cost implications?
- What challenges are industries facing in integrating green hydrogen into existing operations and scaling deployment strategies being adopted to these barriers?

Adoption Across Transport Segments

- What has been the early experience with green hydrogen adoption across passenger cars and buses, trucks, railways and shipping, and which segments are showing the strongest potential?
- How are OEMs approaching hydrogen-based mobility solutions for the key technological, infrastructure and cost-related challenges?
- What initiatives and policy measures are being undertaken by government agencies to support the adoption of green hydrogen across the transport and mobility sector?

Storage, Transport and Export Readiness

- How prepared is India's infrastructure for large-scale green hydrogen deployment with respect to storage, transportation, ports and industrial hubs?
- Which storage and transport technologies are likely to be the most viable in the Indian context? What are the key economic, regulatory and safety considerations?
- What investments, standards and policy measures will be required to develop green hydrogen hubs, strengthen port infrastructure and improve India's export readiness for green fuels?

Cost Economics, Financing and Market Mechanisms

- How does the cost of green hydrogen in India compare with grey hydrogen and international markets, and what factors will be critical in improving cost competitiveness?
- What are the key considerations for financing and ensuring the bankability of green hydrogen projects, including risks related to offtake, power supply and long-term returns?
- What role can carbon markets, certification frameworks and traceability standards play in improving investor confidence and accelerating the growth of India's green hydrogen market?

Project Execution Complexities and Challenges

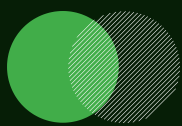
- What are the key engineering and execution challenges in developing large-scale green hydrogen and green ammonia projects in India?
- How are EPC players adapting to evolving technology requirements, integration complexities and localisation needs across the green hydrogen value chain?
- What measures are needed to strengthen project bankability, supply chains and infrastructure readiness for timely and cost-effective project execution?

Maharashtra Focus: Green Hydrogen Hubs

- What is the potential for developing integrated green hydrogen and green ammonia hubs in Maharashtra regions and industrial clusters are likely to emerge as key growth centres?
- What opportunities exist for hydrogen blending and the deployment of green hydrogen-powered buses and other mobility applications across the state?
- How can Maharashtra leverage the strategic importance of Jawaharlal Nehru Port to strengthen green fuel exports, port-based infrastructure and international trade linkages?

Case study: Experiences and Learnings

- From a technology provider perspective, which innovations are showing the greatest potential to improve efficiency, reliability and commercial viability across the green hydrogen value chain?
- From an electrolyser manufacturer perspective, what challenges and opportunities are emerging in scaling domestic manufacturing and technology deployment?
- From a developer perspective, what has been the key from early-stage green hydrogen project development and execution in India?



Speakers

Previous speakers include (*in alphabetical order*):

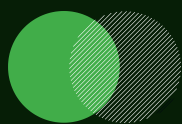
- Naveen Ahlawat, Head, Green Hydrogen, Green Steel and CCSU, **Jindal Steel and Power**
- Ashish Agrawal, Director, **Resurgent India**
- Lt Col Monish Ahuja (Retd), Chairman & Managing Director, **PRESPL**
- Kushal Banerjee, Chief General Manager, Energy Transition Initiatives, **HPCL**
- Pallavi Bedi, Partner, **Phoenix Legal**
- Tanushree Bhattacharya, Business Head, Clean Energy, **Thermo Fisher Scientific**
- Dr. Hemanshu Bhatt, Chief Technology Officer & Co-Founder, **Insolare Energy**
- Kiran Bhojani, Founder & CEO, **Lili Navitas**
- Bhaskar Bose, Head, Electrolyser Manufacturing, **Jakson Green Infinity**
- Africa Castro, Head of Business Development, **H2B2/GreenH**
- Prasad Arvind Chaphekar, Deputy Secretary (Hydrogen), **MNRE**
- Renuka Chettur, Associate Director, **Investment NSW Australia**
- Prashant Choubey, President & Head, Green Hydrogen, **Avaada Group**
- Amrit Singh Deo, Senior Managing Director, **FTI Consulting**
- Siddharth Gauba, Executive Director, **EverSource Capital**
- Siddharth Gupta, Chief Executive, **L&T Electrolysers**
- R.P. Gupta, Chairman & Managing Director, **SECI**
- Abhay Harne, Director, Projects, **MAHAGENCO**
- Harish Jayaram, Vice President, Business Development, **Hygenco Green Energies**
- Nitin Jain, Head Corporate Centre, **L&T Green Energy Business**
- Harsh Nupur Joshi, Group General Manager – Renewables, **ONGC**
- Shekhar Kashalikar, CEO, **John Cockerill Greenko Hydrogen**
- Atul Kharate, Chief Operating Officer, **IndianOil Adani Ventures**
- Prof. Deepa Khushalani, Chair, Department of Chemical Sciences, **Tata Institute of Fundamental Research**
- Dushyant C. Kothari, CEO & Chief Scientist, **Hyrja Fuel Systems**
- Chandrakant Mahalingam, AVP, Business Development, **JSW Energy**
- Kapil Maheshwari, MD & CEO, **Welspun New Energy**
- Hiren Mehta, Chief Commercial Officer, **ACME Group**
- Akhil Mehrotra, Managing Director, **Pipeline Infrastructure**
- Nikhil Mathew, CTO, **Eastern Electrolyser**
- Gaurang Mishra, Joint Director, **Centre for High Technology (MoPNG)**
- Siddharth R. Mayur, Founder, MD & CEO, **H2e Power Systems**
- Kishor Nair, CEO – IPP Business, **Avaada Group**
- D.M.R. Panda, General Manager, Green Hydrogen, **NTPC**
- Anand Raidurg, GM, Projects, **MEDA**
- Nirlep Singh Rai, Chairman, **Ramagundam Fertilizers and Chemicals**
- K.P. Rudrappaiah, Managing Director, **Karnataka Renewable Energy Development**
- Priyanka Sahasrabudhe, Director, Capital Formation, **Transition VC**
- Samir Saxena, Vice President, Green Hydrogen Business, **ReNew**
- G. Senthil Kumar, DGM, **Ashok Leyland**
- Anuj Sharma, CEO, **Waaree Clean Energy Solutions**
- Sanjeev Sharma, VP, Business Development & Corporate Strategy, **GH2 Solar**
- Arnava K. Sinha, Vice President, New Energy Business, **Greenko Group**
- Inderjeet Singh, Vice President, Green Hydrogen & Derivatives, **Adani Group**
- Prof. Pradeep Sow, Associate Professor, **BITS Pilani Goa**
- Dr. Umish Srivastava, Executive Director, Alternative Energy & R&D Centre, **IOCL**
- Abhina Sultania, Energy & Energy Transition Specialist, **Asian Development Bank**
- Anvesha Thakker, Partner & National Lead, Clean Energy, **KPMG**
- Tarkesh Tiwari, Vice President, Strategy & Business Development, **Essar Ports**
- Dr. Altaf Usmani, Head Design – Underground Storages, **EIIL**
- Prashant Vasisht, Senior Vice President & Co-Group Head, **ICRA**
- Narendra Nath Veluri, CEO, **Agency for New & Renewable Energy Research & Technology**



Previous Participants

ACME Cleantech Solutions, Adani Group, Advait Energy Transitions, Aegis Vopak Terminals, Aker Solutions, Alfa Laval India, Apraava Energy, Aramco, Ashok Leyland, Avaada Group, Azure Power, Baker Hughes, BASF India, BNP Paribas Securities, Bosch, BPCL, Bureau Veritas, Clarke Energy, Continuum Energy, Danfoss, Deepak Fertilisers, Delta Electronics, Eaton, Edelweiss, Emerson Automation Solutions, Engie, Essar Group, EverSource Capital, Flowserve, Fortum, FTI Consulting, GAIL, GE Oil & Gas, GIZ, GMR Energy, Godrej & Boyce, Grasim Industries, Greenko, Grundfos Pumps India, GSECL, GSPL, GUVNL, H-Energy, Hero Future Energies, Hindustan Petroleum Corporation (HPCL), Hitachi, Honeywell, Hygenco Green Energies, ICICI Bank, ICRA, IFC, IIT, India Hydrogen Alliance, India Infrastructure Finance Company, IndianOil Adani Ventures, Ineos, Ingersoll-Rand, IOCL, IREDA, IRM Energy, Jindal Steel, John Cockerill Greenko Hydrogen, Johnson Controls, JSW Steel, Kalpataru Power, KBR, KEC, KfW, Khaitan & Co, Kirloskar, KPIT, KPMG, L&T Energy GreenTech, Linde, Lloyd's Register, Macquarie, MAHAGENCO, Mahanagar Gas, MAN Energy Solutions, Marubeni, Mitsubishi Corporation, Mitsubishi Heavy Industries, Mitsui, NEDO, Nippon Steel India, NITI Aayog, Nomura, NTPC, Ohmium, ONGC, Panasonic, Parker Hannifin India, Petronet LNG, PGCIL, Phoenix Contact, Polycab, POSOCO, PwC, Ramboll, Ratnamani Metals & Tubes, Reliance BP Mobility, ReNew, RITES, S&P Global, SBI, Schneider Electric, SECI, Sembcorp, SGS, Shell, Siemens Energy, Statkraft, Sterlite, Swagelok, Tata Capital, Tata Power, Tata Projects, Technip Energies, TERI, Thermax, Thermo Fisher Scientific, Think Gas, Thyssenkrupp Nucera India, Torrent Power, Toyota, Transition VC, Vedanta, Vikram Solar, Waaree Energies, Wärtsilä, Welspun New Energy, World Bank, Worley Group, Yes Bank, etc.

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