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2nd Edition

GREEN HYDROGEN IN INDIA

A VIRTUAL CONFERENCE

Policies, Production, Transportation & Storage and Emerging Technologies

September 16-17, 2021

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Green Hydrogen in India

Mission

- Globally, many large-scale green hydrogen projects are being announced on a daily basis. Several countries have also published national green hydrogen strategies.
- India too reiterated its commitment to green hydrogen in February 2021, when the government announced its plan to launch the Hydrogen Energy Mission. It has earmarked Rs 15 billion for the mission and the Indian Renewable Energy Development Agency, though the details are awaited.
- As green hydrogen gains uptake and achieves commercial viability, it can be used to meet the hydrogen demand in the country, across several sectors including power, transport, industries and buildings. Hydrogen could also be used as an energy storage option, with hydrogen-powered fuel cells being used to mitigate the intermittency of renewable power.
- Currently, a number of pilot projects are operational and in the pipeline. Several collaborations between Indian and international companies have also taken place in the space over the past year.
- The challenge, though, would be to scale up the pilot projects. There are only a handful of Indian companies that produce electrolysers and that too on a small scale. The other challenge is that the current cost of green hydrogen production is almost thrice the cost of grey hydrogen. Further, India has technological disadvantages when it comes to compressing and storing hydrogen for automobiles.
- Going forward, green hydrogen development will require a deep and objective understanding of the facts pertaining to the current status of the sector in terms of production and consumption, the competitive gap between renewable hydrogen and its fossil alternatives, plans for further development of (clean) pathways for hydrogen production and use, and the policies that incentivise the adoption of clean hydrogen technologies over fossil-based fuels and feedstocks.
- **The mission of this virtual conference is to bring together policymakers, renewable energy developers, grid planners, technology providers, industry experts and investors to present their perspectives, share experiences from early projects, and offer possible solutions for shaping the future of green hydrogen. Leading developers will showcase projects and present plans for producing green hydrogen. Technology providers will describe their innovations and solutions for ramping up the production of green hydrogen. Industry experts will also present their solutions to build the infrastructure needed for transporting and storing green hydrogen.**

Previous Participants

ABRPL, **ACME Cleantech Solutions,** *ACVA Solar, Adani Solar, AES, Affin Hwang, Aggreko,* **Alfanar, Amplus Solar, Aramco Asia, Ariel International Corporation, Aries Power, Armacell, ASK, Autogrid, Avaada Power, AVI Solar Energy, Axis Capital, Azure Power, Babcock Power, Baker Hughes, Black & Veatch, BNP Paribas, BPCL,** *Brookings, Buena Vista Fund Management,* **Cairn, Canadian Solar, Chart Industries, Chicago Pneumatic, Chint Power, Clarke Energy**, **Cleantech Solar Energy, Engie,** *Climate Connect Technologies,* **CLP,** *CRGI, CSEP,* **Customised Energy Solutions, Daimler India Commercial Vehicles, Danfoss, Dans Energy, Deccan Equipment and Management,** *Delta, Diamond Gas International Pte. (DGI), DIMTS., DSP Investment Managers, Eastern Electrolyser., Eaton, Edelweiss AMC, EIL, Elara Securities, Electrotherm, ELSAC Engineering s.r.l., Farm Gas, Fidelity,* **First Solar, Fortum,** *Fourth Partner Energy, Franklin Templeton,* **GAIL India, GE Steam Power,** *Gensol, GIP India,* **GIZ,** *GMR Energy, Godrej & Boyce Mfg. Co.., Government of Western Australia, Greenko Group, GSPL India Gasnet Limited, Hazira LNG, HCC, HDFC Bank, HEG, Helios, H-Energy,* **Hero Future Energies,** *Hitachi ABB, Honeywell,* **HPCL,** *ICICI Bank, Idam Infrastructure Advisory, IDFC Alternatives, IEEFA, IFC, IIPL, IIT Mandi,* **Indian Energy Storage Alliance,** *Indian Railways Organization for Alternate Fuels, IndianOil Corp, Indraprastha Gas, IREDA, IRM Energy,* **JNK INDIA PVT,** *Jupiter, Kalpataru Power, Kashyap Consultancy Services, KEC International, KepcoPlant Service &Engg, KfW, KPIT Technologies, KPMG,* **L&T Solar,** *LARSEN&TOUBRO, Linde, Macquarie,* **Mahanagar Gas,** *Mahindra Susten, Maithon Power, Manulife IM, Max life, MEA, MECON, Ministry of Power, Mirae Asset,* **Mitsubishi Corporation,** *Mitsui,* **MNRE,** *Mosaic Advisors, Mytrah Energy, National Foundation for India, NEC Technologies,* **NEDO India,** *New Horizon, Nikko AM, NITI Aayog, Nomura Asset Management,* **NTPC, Okaya Power, ONGC, Oswal Infrastructure,** *Oxbow Capital, Panasonic, Panitek Power AG, Parker Hannifin,* **Petronet LNG, Plug Power, POSOCO, POWER GRID, Praxair,** *Punj Lloyd,PwC, Ramboll, ReGenPowertech,* **Reliance Industries, ReNew Power, RITES, Rockwin Flowmeter,** *S&P Global Platts, Samena Capital, Samsung Heavy, SBI Capital Markets, SBI MF,* **Schneider, SECI, Sembcorp Green Infra, SEROS, Shell India, Siemens Gamesa,** *Skipper,* **Sprng Energy, Statkraft India, STEAG Energy,** *Sterling & Wilson, Sterlite, Sumitomo, Suzlon, Tata Aia, Tata AMC, Tata Asset Management, Tata Cleantech Capital, Tata Power, Tata Projects,* **Technip Energies,** *TERI, TGE Gas Engineering, The Corporate Profiles, Thermax, Thermo Fisher Scientific, Toshiba JSW Power Systems,* **Toyo Engineering, Toyota Kirloskar,** *UPES, UTI AMC, Vedanta, Veeco Instruments, Vikram Solar, Waaree Energies, WALLFORT Financial Services, Wartsila,* **Welspun Renewables Energy,** *World Bank, Yes Bank, etc.*

To register, contact: Priyanka Rawat +91-8587065590, 6366804343, email: priyanka.rawat@indiainfrastructure.com

AGENDA/STRUCTURE

KEY TRENDS AND MARKET OUTLOOK
- Role of green hydrogen in meeting India's climate goals
- Potential end use cases
- Opportunities and challenges in meeting climate goals
- Addressing major barriers and implementing mechanisms to speed up the green hydrogen economy

GOVERNMENT PERSPECTIVE: FOCUS ON HYDROGEN ENERGY MISSION
- National green hydrogen strategy for economic growth and energy transition
- Key initiatives and plans for supporting production and transport of green hydrogen
- Expected targets and planned tenders

POLICIES, PLANS AND STRATEGIES FOR PROMOTING GREEN HYDROGEN
- Role of green hydrogen in meeting climate neutrality goals
- Initiatives and plans of the central and state governments

PERSPECTIVE AND PLANS OF RENEWABLE ENERGY DEVELOPERS
- Plans for green hydrogen production from solar and wind power resources
- Potential business models and cost economics
- Key barriers and outlook

BUILDING GREEN HYDROGEN TRANSPORTATION NETWORK
- Repurposing oil and gas infrastructure - utilising and optimising the existing network for transporting green hydrogen
- Plans and proposals for expanding infrastructure
- Building an optimal supply backbone in the long term

GRID FLEXIBILITY
- Managing flexibility in the grid with green hydrogen storage
- Using green hydrogen for grid balancing services

GREEN HYDROGEN STORAGE AND TRANSPORTATION
- Hydrogen's potential to manage seasonal storage issues
- Storing green hydrogen safely
- Pilots and case studies of early projects

COST ECONOMICS: BUILDING COMMERCIAL-SCALE PROJECTS
- Capex requirements, expected returns and mechanisms to reduce costs
- Global lessons from recent issues and solutions to de-risk project development
- Emerging business models for investing in the green hydrogen economy
- What else is needed and can be achieved?

PROMISING TECHNOLOGIES FOR GREEN HYDROGEN PRODUCTION
- Large-scale electrolysers - the key to commercialisation of green hydrogen production
- Technology update and advanced projects
- Latest research on standardising designs and improving efficiencies
- Plans for ramping up manufacturing capacities

FINANCING GREEN HYDROGEN PROJECTS
- Emerging financing options and institutional support
- Addressing financial and commercial risks to make projects bankable
- Are lenders ready to commit?
- What's needed to boost investment in green hydrogen?
- How can financiers get involved - perspective of early investors

RAMPING UP MANUFACTURING CAPACITY: CHALLENGES AND POTENTIAL
- Existing electrolyser capacity
- Barriers to scaling up manufacturing
- How can international players get involved?

Target Audience

The conference is targeted at:

- Green hydrogen developers
- Renewable energy developers
- Policymakers and regulators
- Power utilities
- Oil and gas operators
- Transmission grid operators
- EPC contractors
- Technology providers
- Engineering and technical consultants
- Management consultants
- Energy storage providers
- Equipment manufacturers
- Potential investors
- Private equity firms
- Financial institutions
- Industry analysts
- R&D organisations
- Etc.

Green Hydrogen in India

Previous speakers (in alphabetic order):

Akshay Bhardwaj, General Manager, Hydrogen and New Business, ACME Cleantech Solutions | **Tim Buckley,** Director, Energy Finance Studies, Australia/South Asia, IEEFA | **Maruthi Ethakota,** Head, Process and Technology Department, Technip India | **Sachin Kumar,** Senior Fellow, Industrial Energy Efficiency Division, TERI | **D.M.R. Panda,** General Manager (Hydrogen), NTPC | **Dr R. K. Malhotra,** Founder President, Hydrogen Association of India | **Manas Majumdar,** Partner, KPMG | **Parveen Nanda,** Senior Vice President, Greenko Group | **Bob Oesterreich,** Vice President, Global Hydrogen Sales, Chart Industries | **Kowthamraj V. S.,** Lead, Green Hydrogen Paper, NITI Aayog | **Dr Rahul Walawalkar,** President & MD, Customized Energy Solutions India, CES

What differentiates our conferences?

- The **agenda** is developed by our researchers, who track the sector round the year. It is thus **relevant** and **topical**. It is not driven by a particular organisation and does not have a particular slant.
- The **speakers** are **professionals** and **experts** involved in the sector, not a mix of ambassadors, ministers, celebrities and business owners.
- The conferences do not just comprise panels and speeches; they provide a good mix of **expert presentations** and **case histories**, and of course **panel discussions**.
- We have **representation** from **across the country**, as is the case at our physical conferences too.
- Each **stakeholder group** – **policymakers**, **developers**, **financiers**, **consultants** and **relevant NGOs** – is represented at our conferences.
- The moderators merely ask the questions. The **stars** are the **speakers** themselves.
- The **sessions begin and end on time**.
- There is adequate time for a **Q&A session** with **each speaker**. These are not "hit and run" speeches.
- The **delegates** are **professionals** who are vested in the sector, and are not just assembled through social media.
- A **recap** of the conference is also made available to reinforce the key takeaways.

Delegate benefits (Virtual Conference)

- Direct interaction with senior speakers (Q&A facility)
- Easy connectivity to geographically dispersed delegates (click of a mouse)
- Cost effective (lower ticket price as compared to a physical conference)
- Offers flexibility and convenience
- Access to conference recording
- Recap of conference sessions
- Contributes to sustainability and lower carbon footprint

Benefits of sponsorship (Virtual Conference)

- E-Meet influencers and decision-makers/
- Reach out to and engage with new or active prospects
- Generate high quality sales leads
- Increase brand recognition
- Target a captive and engaged audience
- Drive website traffic through social media promotions
- Position your company as the thought-leader in your industry

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Conference on

Green Hydrogen in India

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Registration Fee

	INR	GST@18%	Total INR	Total USD
1 Login	9,000	1,620	10,620	163
2 - 3 Logins	15,000	2,700	17,100	263
4 - 5 Logins	21,000	3,780	24,780	381
6 - 9 Logins	27,000	4,860	31,860	450
10 - 20 Logins	33,000	5,940	38,940	550

- There is a 20 per cent discount before August 31, 2021
- GST @18 per cent is applicable on the registration fee.
- Registration will be confirmed on receipt of the payment.

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Sponsorship opportunities are available

Payment Policy:

- Full payment must be received prior to the conference.
- Payments for "early bird" registrations should come in before the last date of discount. Discount offers cannot be combined with any other offer.
- Conference fees cannot be substituted for any other product or service being extended by India Infrastructure Publishing Pvt. Ltd.

Organisers

The conference is being organised by **India Infrastructure Publishing**, the leading provider of information on the infrastructure sectors through magazines, newsletters, reports and conferences. The company publishes **Power Line, Renewable Watch, tele.net, Indian Infrastructure** and **Smart Utilities** magazines. It also publishes **Power News** (a weekly newsletter), and a series of reports on the energy and transport sector, including the **Commercial and Industrial Green Hydrogen Market In India and India's Renewable Energy Outlook 2021, Power Market In South Asia, Solar Market in India, Solar Power in India, Solar Power in Africa, Wind-Solar Hybrid Market in India** and **Rooftop Solar in India**. It also publishes the **Solar Power Directory and Yearbook** and the **Wind Power Directory and Yearbook**.

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