



GH2 India

ANNUAL REPORT 2025



Building alignments across policy, projects, and partnerships

January 2026

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1. Executive Summary

GH2 India operated as a neutral not-for-profit industry association and think tank, enabling dialogue, knowledge exchange, and evidence-based policy engagement.

During the year, GH2 India delivered 14 webinars and knowledge dialogues covering engineering challenges, industrial applications, hydrogen hubs and clusters, Power-to-X pathways, safety and standards, sustainable aviation fuels, port readiness, and international certification and trade frameworks, engaging policymakers, developers, technology providers, standards bodies, researchers, and international partners.

GH2 India hosted and supported major convenings, including Green Hydrogen India Symposium (GHIS) 1.0 and 2.0, and participated in global platforms such as the World Hydrogen Summit 2025 (Rotterdam), European Hydrogen Week (Brussels), World Hydrogen Week (Copenhagen), and hydrogen forums in Japan and Korea, strengthening India's global presence and enabling structured post-event follow-up.

Policy engagement remained central, with five formal policy representations submitted in 2025 to central ministries and agencies on transmission access and network charges, SECI tender design, bid timelines, export competitiveness, and green ammonia procurement. These were supported by CEO-level and bilateral policy roundtables, including India–UK and India–EU dialogues, and specialised workshops on RFNBO certification and European regulations held in India and Europe.

A key milestone was the development of the Green Ports and Shipping Network (GPSN), a GH2 India initiative to accelerate maritime decarbonisation through green hydrogen, green ammonia, and green methanol, to be launched on 23 January 2026 at Le Meridien, New Delhi.

GH2 India also expanded its membership and strategic partnerships, while digital outreach grew significantly, with LinkedIn followers increasing from 3,000 to over 13,000. Looking ahead to 2026, GH2 India will prioritise flagship convenings, a structured year-round webinar programme, deeper international engagement, expanded communications, and a broader, more diverse membership base to support the National Green Hydrogen Mission and India's emergence as a global green hydrogen leader.

2. Message from Chair

It is a privilege to address readers of GH2 India's 2025 Annual Report.

The National Green Hydrogen Mission, launched in Jan 2023, set out an ambitious national target backed by industry to position India as a major producer of Green Hydrogen by 2030. From the outset, the Mission recognised that Green Hydrogen is more than a route to decarbonisation: it is an economic and strategic opportunity for India - one that will create jobs, attract investment, strengthen industrial competitiveness and deepen our role in global clean-energy supply chains.

Over the past year, GH2 India has focused on turning that strategic ambition into practical instruments and partnerships. By catalysing public-private collaboration, supporting policy measures that improve project bankability, and promoting transparent governance and credible standards, GH2 India has helped create the conditions for projects to move from concept to delivery. Our convenings, technical workshops and international engagements have helped clarify certification needs, surface financing pathways and encourage state-level action - all essential building blocks for a resilient market.

As Chair of GH2 India's Governance Board, my priority is to safeguard the integrity and credibility of the institution and the market mechanisms it supports. Strong stewardship, rigorous oversight and clear consistent standards are indispensable if India's Green Hydrogen sector is to earn trust from financiers, off-takers and international partners.

This brief overview of GH2 India's work in 2025 sets the tone for 2026. The task ahead is to sustain momentum, accelerate execution, and scale solutions that are verifiable and bankable. I look forward to working with Government, industry, financiers and international partners to ensure our collective ambitions are met. In my view, GH2 India exists to serve and enable this important national endeavour.



Shri Bhupinder S. Bhalla IAS (Retd.)

Chair - Governance board, GH2 India

3. Message from the CEO

2025 began with a difficult moment for the global clean-hydrogen community. For India, however, it became a defining year: ambition gave way to execution, and a nascent industry started to show tangible progress.

The National Green Hydrogen Mission provided the strategic clarity needed to translate policy into projects. Over the year we saw competitive tenders, an emerging project pipeline, early financial closures and growing international interest. At the same time, execution realities — transmission access, offtake certainty, certification, finance and coordinated infrastructure — surfaced as the practical challenges that must be resolved to scale.

GH2 India sits at the interface between policy intent and industry delivery. In 2025 we concentrated on convening stakeholders, consolidating industry inputs and creating forums for pragmatic, solution-oriented dialogue across government, developers, financiers and international partners. Our work reinforced a simple fact: building a green-hydrogen economy requires alignment — between ambition and feasibility, domestic priorities and global markets, and speed and credibility.

Looking ahead, GH2 India will continue to listen, convene and enable solutions that help move projects from planning to execution. The road to scale will not be linear, but India is well-placed to lead — not only in production, but in shaping the rules, markets and institutions that underpin a credible global green-hydrogen industry.

I remain optimistic and committed to working with all stakeholders to turn India's green-hydrogen promise into lasting impact.



Mr. Nishaanth Balashanmugam

CEO and Director, GH2 India

4. Snapshot from 2025

• Convening • Policy • Global Engagement • Growth



14

Knowledge Webinars & Dialogues

• Engineering • Policy • Power-to-X • SAFs Ports • Standards



02

Flagship National Symposiums

Green Hydrogen India Symposium (GHIS 1.0 & 2.0)



05

Formal Policy Submissions and Representations



06

High Level Roundtables

convened on policy, regulations, trade and financing we organised in India and abroad.



6+

Participation at Global Hydrogen Platforms

showcasing India's Green Hydrogen Eco-systems and Developments

• Rotterdam • Brussels • Copenhagen • Tokyo Seoul Abu Dhabi



4x

Growth in Digital Community Expansion

LinkedIn: 3,000 → 13,000+



4x

Continued growth in Membership

Increasing representation across the green hydrogen value chain



Inducted into the Global Hydrogen Industrial Association Alliance (GHIAA)

Now part of over 30 global hydrogen associations - A unified voice for the global hydrogen industry.

5. Memberships, Partnerships & Collaborations

GH2 India's strength as a multi-stakeholder platform lies in its diverse and engaged membership base, alongside strategic partnerships that extend the association's reach across policy, industry, and collaborations. In 2025, GH2 India continued to grow into a dynamic ecosystem by bringing together leading companies, government bodies, developmental organisations, and global industry associations to accelerate India's green hydrogen journey.

A. Membership Base

Our members represent a cross-section of the green hydrogen value chain, from large industrial producers and technology providers to emerging innovators and specialised service partners. Member engagement helps shape GH2 India's programmes, provides direct industry feedback to policy discussions, and strengthens sectoral collaboration.

Anchor

Anchor Member



ACME
Leading Through Innovation

adani

ReNew

am green

KP GROUP
Since 1954
www.kpgroup.co

Platinum

Platinum Member



HERO FUTURE ENERGIES

WAAREE
One with the Sun

GUJARAT POWER CORPORATION LTD.

gentari

TrueRE
ORIANA POWER LIMITED

PROCLIME

Yonder
Powered by Ador

GH2 Solar

AVAADA

HYGENCO



Gold Member



Silver Member



B. Government & Institutional Partners

GH2 India works collaboratively with key government agencies and sectoral partners to support policy development, implementation insights, and ecosystem alignment:



C. Strategic Collaborations & MoUs

In 2025, GH2 India strengthened its international and domestic collaboration footprint through strategic agreements and joint initiatives-



Together, our members and partners form a networked foundation that enables GH2 India to:

- Facilitate policy and regulatory dialogue with government and regulators
- Support market and capacity building initiatives across industry stakeholders
- Encourage cross-border knowledge transfer and technical exchange
- Mobilise investment, technical partnerships, and ecosystem alignment

This collective approach positions GH2 India as a central convenor in India's green hydrogen transition, helping align domestic growth with international best practices and emerging trade opportunities.

Interested in joining us? Contact us on- team@gh2.org.in

6. Policy Engagement & Advocacy Efforts

GH2 India's policy advocacy in 2025 focused on bridging industry experience with policy formulation by facilitating dialogue between developers, government agencies, and allied stakeholders. These efforts combined formal policy representations with targeted policy roundtables, enabling structured dialogue between industry leaders and policymakers on priority regulatory, market, and infrastructure challenges.

A. Formal Policy Representations

During the year, GH2 India submitted five formal policy representations to central ministries and implementing agencies, consolidating inputs from green hydrogen and green ammonia developers.

Key issues covered through written representations included:

- **Transmission access and cost allocation** : Addressing delays in GNA approvals and concerns around proposed ISTS sub-station cost recovery from developers, with recommendations to treat transmission infrastructure as common-use assets for the sector.
- **SECI tender design and adaptability** : Providing recommendations on auction structure, contract tenure, payment security mechanisms, and banking flexibility to better reflect the commercial realities of early-stage green ammonia projects.
- **Bid timelines and procedural constraints** : Seeking extensions to bid submission deadlines where banking processes and guarantee issuance posed participation challenges.
- **Export competitiveness and trade barriers** : Highlighting the impact of import tariffs and certification requirements on India's green hydrogen and ammonia export prospects, particularly in European markets.
- **Strengthening green ammonia procurement frameworks**: Proposing measures to enhance payment security, pricing predictability, and long-term offtake confidence.



B. Engagement with the European Commission- Green Hydrogen Trade & Certification

In February 2025, GH2 India, along with international partners, supported a formal representation to the European Commission addressed to the Executive Vice-Presidents and Commissioners responsible for energy, trade, and industrial policy. The letter focused on safeguarding market access for renewable green hydrogen producers from third countries, including India, in the context of the EU's evolving Clean Industrial Deal and RED III implementation.

The representation highlighted four priority concerns for Indian and global green hydrogen developers:

- **Preserving RED III demand mandates:** Emphasising that dilution of renewable hydrogen targets through expanded support for fossil-based “low-carbon” hydrogen would undermine decarbonisation, energy security, and investment certainty for green hydrogen projects.
- **Maintaining RFNBO integrity :** Calling for stability in the RFNBO Delegated Acts, noting that projects have been developed based on existing criteria and that changing definitions mid-course would introduce significant regulatory risk.
- **Operationalising the international pillar of the European Hydrogen Bank :** Urging the EU to accelerate funding support for imported RFNBO-compliant hydrogen and derivatives, and to align mechanisms such as the European Hydrogen Bank and H2Global to enable early trade flows.
- **Clarifying “bidding zone” equivalence for third countries :** Seeking regulatory clarity to reduce investment risk for large-scale export-oriented projects by confirming acceptable equivalent market concepts for non-EU producers.

C. Policy Roundtables and Strategic Dialogues

In parallel with written submissions, GH2 India facilitated and supported policy-focused roundtables to enable direct, outcome-oriented dialogue between industry leaders and government stakeholders.



1. CEO Roundtable- ICGH 2025

On the sidelines of the International Conference on Green Hydrogen, GH2 India hosted a CEO Roundtable chaired by Shri Pralhad Joshi, Hon'ble Union Minister, MNRE, and Shri Santosh Kumar Sarangi, Secretary, MNRE.

The roundtable convened leading green hydrogen and green ammonia developers to identify near-term enablers for project execution. Industry participants emphasised:

- The need for clear demand signals, including SECI aggregation, phased Hydrogen Purchase Obligations (HPOs), and CGD blending
- Greater clarity on renewable energy banking, harmonised network charges, and single-window approvals
- Export readiness measures, including RFNBO-aligned certification, bilateral demand pilots, and blended finance or guarantee mechanisms to unlock first export-linked FIDs



2. **DSK Legal** hosted a workshop on EU Regulations and RFNBO Certification on Green Fuels curated by GH2 India at their Mumbai office on November 5, 2025. Steered by subject matter experts from the European Union and attended by eminent industry leaders from across the country, the workshop provided a critical forum for understanding the regulatory contours around the RFBNO compliance for domestically produced green hydrogen and its derivatives and their exportability in the European markets. The workshop was conducted by Mr. Woulter Vanhoudt, Head of Business Development, HINICIO, global technical and strategic consulting firm on hydrogen, Mr. Matthias Altman, Senior Project Manager and Consultant, LBST, renowned consultancy on energy systems and Matthieu Boisson, Managing Director, Certifhy, EU recognized voluntary scheme for RFNBO certification.



3. India–UK Country Roundtable- ICGH 2025

Held on Day 1 of the 3rd International Conference on Green Hydrogen, the India–UK Hydrogen Roundtable convened senior government officials, project developers, financiers, and manufacturers to examine how the India–UK Free Trade Agreement (FTA) can be translated into practical collaboration for the green hydrogen sector.

The discussion focused on identifying policy and market enablers required to support bilateral trade and industrial cooperation, with particular emphasis on aligning regulatory frameworks and investment pathways.



Key themes discussed included:



Trade architecture under the India–UK FTA, and its implications for green hydrogen and hydrogen derivatives

Standards and certification alignment to ensure export compatibility and regulatory clarity



Localisation of electrolyser and component manufacturing, leveraging complementary industrial strengths

Financing structures and de-risking mechanisms to support early-stage project development and cross-border investment

The roundtable helped clarify priority areas for bilateral engagement, highlighting the role of policy alignment and industrial cooperation in advancing hydrogen trade between India and the United Kingdom.

4. India–EU Roundtables- European Hydrogen Week 2025

On 29 September 2025, in Brussels over 45 representatives from India and EU convened to discuss the evolving dynamics of the green hydrogen sector. The session were chaired by Mr. Santosh Kumar Sarangi, Hon. Secretary, MNRE, Shri Abhay Bakre, Mission Director, MNRE, alongside Ms Ruta Baltause of the European Commission (DG ENER), Mr Mahavir Singhvi, JS, MEA and were joined by other representatives from the European Union and Industry.

This dialogue was a part of our ongoing efforts to catalyse India-EU green hydrogen trade. The discussions reaffirmed that India's vision to become a global green hydrogen hub is no longer aspirational but operational, with some of the world's lowest green ammonia prices achieved through competitive tenders, renewable energy abundance, and production-linked incentives. Participants highlighted that for this momentum to translate into market access, policy, certification, and infrastructure frameworks must advance in step with technology. The roundtable concluded with a strong consensus that regulatory clarity, investment certainty, and infrastructure development must advance in lockstep to build a viable India–EU hydrogen corridor.

The exchange was candid yet constructive, setting the tone for deeper regulatory cooperation. Together, these twin dialogues reflected a maturing India–EU partnership, one rooted in ambition, collaboration and trust. From harmonising certification standards to dismantling trade barriers, both sides recognised that the success of green hydrogen will depend not just on technological innovation, but on regulation and diplomacy.



7. Webinars and Knowledge Dialogues

Building technical depth, policy clarity, and sectoral readiness

In 2025, GH2 India curated and delivered a structured webinar series across the year aimed at deepening understanding across the green hydrogen value chain. From advanced engineering and end-use technologies to standards, market frameworks, infrastructure readiness, and international policy developments, we supported capacity building, knowledge exchange, and sector alignment across India's green hydrogen ecosystem.

The webinar series brought together industry experts, technology providers, policymakers, standards bodies, researchers, and international stakeholders, providing a neutral platform for informed dialogue and fostering a skilled workforce across the sector.

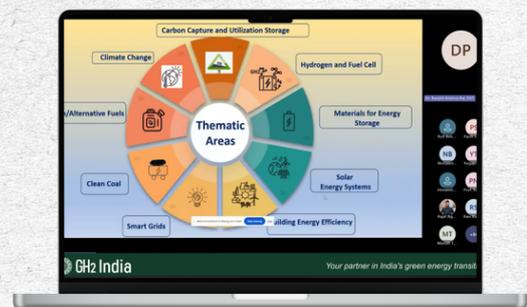


Ensuring Safety in Hydrogen Production and Applications: Best Practices and Compliance

This webinar focuses on safety considerations across hydrogen production and applications, highlighting best practices, regulatory compliance, risk management, and operational readiness to support the safe scale-up of hydrogen technologies.

India's Green Hydrogen Hubs, Clusters and Valleys

This webinar explores the development of green hydrogen hubs, clusters, and valleys in India, examining their role in enabling coordinated deployment, shared infrastructure, cost optimisation, and accelerated scale-up of the green hydrogen ecosystem.





Optimizing Power-to-X Projects: A Deep Dive into ANDREA by Hinicio

This session analysed Power-to-X pathways, focusing on system optimisation, integration strategies, and commercial considerations for converting electricity to hydrogen and derivative products.

Innovations in Membranes and Catalysts: Driving Efficiency in Hydrogen Technologies

A technical highlight of the series, this webinar brought domain experts to discuss recent innovations in membranes and catalysts that enhance electrolyser efficiency and cost performance.



Charting India's SAF Future: Regulations, Demand, and Economics

This session focused on sustainable aviation fuels (SAF) enabled by green hydrogen, covering regulatory context, market demand prospects, and economic signals for adoption.

Are Indian Ports Ready to Respond to Global Green Shipping Regulations?

Assessing readiness for green fuels and shipping regulations, this webinar examined port infrastructure, supply chain requirements, and strategic enablers for maritime decarbonisation.



Belgian Hydrogen Import Strategy and Hinterland Connectivity

Focused on Indian stakeholders, this session showcased Belgium's hydrogen import strategy and logistics readiness, offering international perspectives on cross-border supply frameworks relevant to India's export ambition.



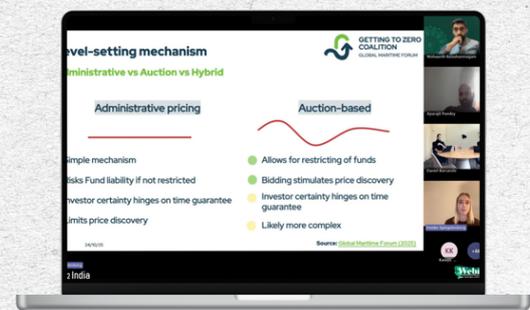
India–Belgium Hydrogen Dialogue Series (Part II)

This webinar marked the continuation of the India–Belgium Hydrogen Dialogue Series, strengthening bilateral engagement between the two countries' hydrogen ecosystems. The session focused on Indian policies and projects for Belgian stakeholders, collaboration opportunities, with particular emphasis on aligning industrial capabilities and policy priorities.



Are Indian Ports Ready to Respond to Global Green Shipping Regulations?

Assessing readiness for green fuels and shipping regulations, this webinar examined port infrastructure, supply chain requirements, and strategic enablers for maritime decarbonisation.



Scan the QR code to watch recordings from GH2 India's 2025 webinar series, covering technology, policy, applications, and international perspectives on green hydrogen.

8. Industry Events, Delegations and Convenings

GH2 India hosted, participated in and supported multiple industry events throughout 2025, strengthening India's presence in global green hydrogen dialogues, promoting the National Green Hydrogen Mission, and deepening engagement across technology, policy, and markets. Below is a snapshot of key convenings, from flagship GHIS summits to international forums.

1st Green Hydrogen India Symposium (GHIS 1.0)



- A flagship convening bringing together government officials, industry leaders, investors, and ecosystem stakeholders
- Focused on emerging opportunities and implementation challenges in India's green hydrogen sector
- Provided a forum to align on early market developments, policy priorities, and collaborative pathways



“I think we missed the bus in solar manufacturing. India should not miss the bus in hydrogen electrolyzer manufacturing and supply chain development.”

Mr. Vaithyanathan Nagarajan,
CEO, Thyssenkrupp Nucera India



“ The government of India has moved at a faster pace than many international counterparts in creating an environment for green hydrogen making us increase our focus in the domestic markets... In other markets where production is competitive there are challenges like acquiring skilled man-power... when you adjust for interest rates and currency risk, India will have the most competitive green hydrogen and green ammonia in the world”

Mr. Sanjay Nagrare, President, Ocior Energy

2st Green Hydrogen India Symposium (GHIS 2.0)

- Built on the momentum of GHIS 1.0 with deeper engagement across policy, finance, and industrial directions
- Included sessions on finance mechanisms, demand aggregation, and sector-wide collaboration priorities
- Served as an important knowledge exchange and networking platform for sector stakeholders



 GH2 India

 YouTube

Scan the QR code to watch the sessions from our symposiums on YouTube.

World Hydrogen Summit - May, 2025 - Rotterdam, Netherlands

- GH2 India gathered India's largest outbound green hydrogen delegation to the World Hydrogen Summit - holding over 12 high impact session with several partners alongside MNRE and CII at the 2025 World Hydrogen Summit
- Facilitated strategic dialogues between Indian stakeholders and international partners on green hydrogen production, derivatives (ammonia, methanol), and export-oriented infrastructure
- Showcased India's policy readiness and market potential, highlighting progress under the National Green Hydrogen Mission and emerging port-led hydrogen hubs
- Advanced international collaboration opportunities by identifying potential partnerships, knowledge exchanges, and investment pathways to accelerate India's green hydrogen deployment



**WORLD
HYDROGEN
2025**
SUMMIT & EXHIBITION

India's largest green hydrogen delegation to Europe with over 45 representatives lead by Secretary, MNRE

Port of Rotterdam Visit by Indian Delegation

As part of the India delegation's engagements during the World Hydrogen Summit 2025, senior government officials and industry leaders led by Shri Santosh Kumar Sarangi, Secretary, MNRE, visited the Port of Rotterdam. Hosted by the Port of Rotterdam Authority, the delegation was briefed on the port's innovation strategy, digitalisation initiatives, and its evolving role in sustainable energy logistics. This was followed by a maritime tour of the Maasvlakte industrial zone, showcasing hydrogen-ready terminals, deep-sea infrastructure, and logistics corridors crucial for large-scale green hydrogen and ammonia imports.



2nd EU–India Green Hydrogen Forum

GH2 India served as the knowledge partner for the 2nd EU–India Green Hydrogen Forum that took place in Rotterdam at the sidelines of the World Hydrogen Summit.

Indian companies like AM Green, ReNew, and ACME Cleantech showcased giga-scale projects targeting over 500,000 tonnes of annual green ammonia output—backed by integrated renewable capacity and port infrastructure. India has already allocated 862,000 TPA in green hydrogen production tenders and 3,000 MW of electrolyzer manufacturing capacity, indicating supply-side readiness.

"At SECI, we have taken bold actions and responded to evolving conditions to enable a robust environment for public procurement of green energy . In this endeavour, we are in the final stages of approving the world's biggest green ammonia production tender i.e. 724,000 MT per annum GA production, for which off takers have also been tied up."

Mr Sanjay Sharma, Director, SECI

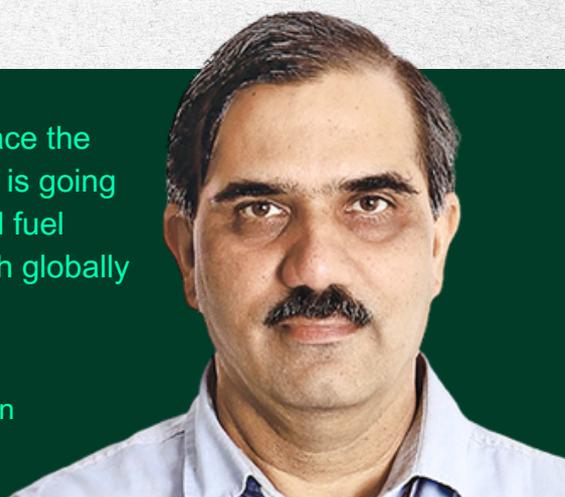


On the EU side, the appetite for imports—particularly in steel and shipping, continues to grow. The €1.9 billion EU Hydrogen Bank was highlighted as a critical financing mechanism, though EU stakeholders stressed that funding hinges on certification compatibility. Certification emerged as the top concern. With India’s new Green Hydrogen Certification Initiative (GHCI) and the EU’s RED III framework, alignment challenges remain, especially around emissions accounting, temporal matching, and MRV systems. Financing was another focal point. While India could achieve production costs of \$1.5–2/kg, developers flagged limited access to affordable capital and long-term offtake agreements. European DFIs like KfW and EIB were called upon to unlock co-financing, first-loss facilities, and blended finance.

The forum concluded with a shared message: execution must follow ambition. Certification alignment, financing instruments, and port-to-port infrastructure must now be fast-tracked to enable scalable, bankable India–EU hydrogen trade.

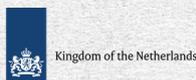
“ To build out an alternative fuel economy with hydrogen to replace the traditional energy sector, which was built over several decades - is going to be a Herculean task! We need to first compete with traditional fuel costs, build infrastructure, and enable commercialisation through globally acceptable frameworks. “

Mr. Abhay Bakre,
Mission Director, National Green Hydrogen Mission



Mr. Tudor Constantinescu from the European Commission captured the momentum: “**The scale of presence here, and the energy behind these collaborations, shows how far EU–India cooperation has come—not just in hydrogen, but across the green transition.**”

Supporting Partners for the GH2 India delegation to the Netherlands 2025:



Green Hydrogen delegation to Belgium - Brussels, September 2025

At the backdrop of the SECI Green ammonia auctions an Indian delegation to Brussels was organised by GH2 India and the Indo German Energy Forum (IGEF) supported by the Ministry of New and Renewable Energy, Ministry of External Affairs and the Indian Embassy in Brussels.

Together with government and industry stakeholders we convened two high level roundtables and held a networking reception at the sidelines of the European Hydrogen Week.



“Certification is a common language. If we can make that language science-based, interoperable, and digital, I think we can unlock scale.”

Ms. Ruta Baltause,
Policy Official, European Commission, DG-energy





India's ambition is to position itself as a leading global producer and exporter of green hydrogen and its derivatives.

Its achievements in securing some of the world's lowest prices for green ammonia—supported by renewable energy abundance, grid fee waivers, and production subsidies—were recognized.

The 5.5% EU tariff on hydrogen and ammonia imports was widely seen as a trade barrier, with calls for its removal under the India–EU Free Trade Agreement negotiations.

Ports like Antwerp and Rotterdam shared plans to expand import facilities and invited Indian producers to collaborate.

Lack of harmonized global standards remains a barrier to international trade.

Indian representatives emphasized the need for recognition of India's unique grid structure and certification scheme, while European participants stressed interoperability and legally defensible standards.



CONSENSUS



CERTIFICATION



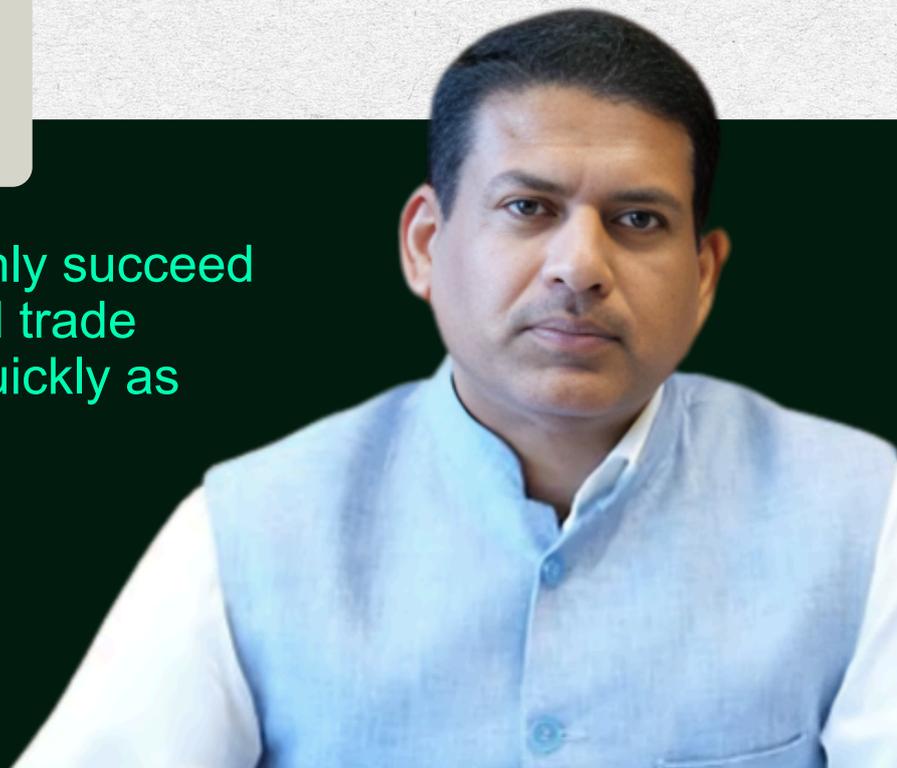
AMBITION



MARKET ACCESS

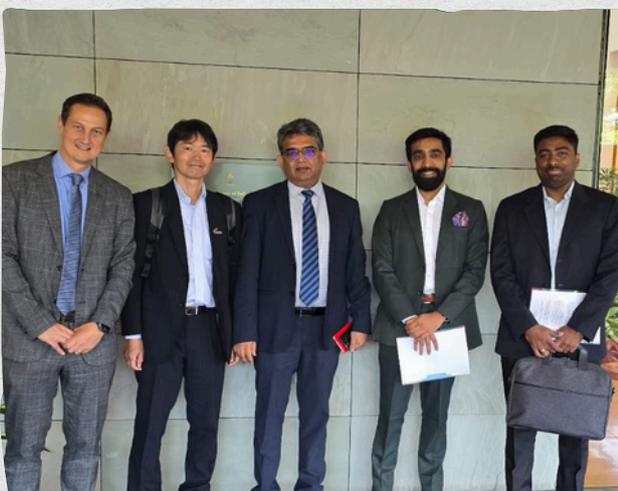
“Green hydrogen will only succeed if policy, regulation, and trade frameworks move as quickly as technology does.”

Mr. Santosh Kumar Sarangi,
Secretary, MNRE at the India EU
roundtable on policy



World Hydrogen Asia - Tokyo, Japan

GH2 India participated in the World Hydrogen Asia Conference in Tokyo, engaging Japanese and Asia-Pacific stakeholders on policy alignment, supply-chain integration, maritime market readiness and cross-regional cooperation. Our delegation held focused discussions on opportunities for bilateral collaboration and technology exchange across the rapidly expanding Asian hydrogen ecosystem, and delivered a presentation outlining India's green hydrogen landscape, progress on project development and policy measures to support export-readiness. These interactions strengthened regional partnerships and advanced practical paths for joint deployment, trade and regulatory alignment.



European Hydrogen Week - Copenhagen & World Hydrogen Leaders Copenhagen 2025

GH2 India convened two high level dialogues on trade and regulations at European Hydrogen Week continuing the dialogues with European stakeholders from our roundtables in 2024. Together with BNEF and several other key stakeholders we took stock of global progress in the hydrogen sector and deliberated on key hurdles and opportunities in the sector.



At these key gatherings in Europe - our primary message is singular - “India is ready to supply green fuels to Europe at scale and globally competitive prices.”

Mr. Nishaanth Balashanmugam,
CEO and Director, GH2 India

Delegations to India

1) UK Delegation

GH2 India supported the UK Green Hydrogen Trade Delegation led by the UK Department for Business and Trade during ICGH, facilitating targeted engagements with industry leaders and state governments. The visit included meetings with ACME, Hero Future Energies, Waaree, Essar, Invest India, and the Government of Maharashtra, culminating in an Indo-UK Hydrogen Roundtable. These engagements strengthened cooperation across four priority areas: standards and certification, port-linked export infrastructure, electrolyser/component manufacturing, and large-scale project development, positioning both nations to convert policy momentum into commercially viable collaborations.



2) CertifHy roadshow and workshop

GH2 India partnered with CertifHy, LBST and Hincio to host two high-impact workshops: An industry training on EU regulations and RFNBO certification at DSK Legal, and a government roundtable with MNRE's Dy. Secretary Dr. Prasad Chapekar. The sessions built Indian industry and government capacity on audit pathways, compliance thresholds, and interpreting India's grid structure within the RFNBO framework, critical for export-ready green hydrogen and derivatives. The discussions also addressed system challenges, aligning technical standards, and outlining a harmonised pathway to strengthen India's readiness for EU markets.



9. MNRE Meetings with Green Hydrogen Developers- 2025

This table summarises the key issues raised by green hydrogen developers during MNRE’s monthly stakeholder meetings in 2025, along with the progress and developments observed over the course of the year. It is intended to provide a consolidated view of actions discussed and to track how these issues evolved through continued engagement between industry and government.

| Focus Area | Key Implications |
|--|--|
| Trade Architecture (India–UK FTA) | Enables preferential market access for green hydrogen and derivatives through reduced tariffs, clearer rules of origin, and improved customs facilitation, strengthening export viability. |
| Standards & Certification Alignment | Alignment of certification, emissions accounting, and guarantees of origin ensures regulatory clarity and export compatibility with UK and EU markets. |
| Localisation of Manufacturing | Promotes domestic manufacturing of electrolysers and components through joint ventures, technology partnerships, and leveraging complementary industrial strengths. |
| Financing & De-risking Mechanisms | Supports early-stage projects via blended finance, export credit, offtake guarantees, and risk-mitigation tools, enabling cross-border investment flows. |

10. Upcoming key events for 2026

1. Year-Round Knowledge & Capacity Building



Webinar Series (12 planned sessions)

In 2026, GH2 India plans to deliver a structured programme of 12 webinars across the year, focused on policy, technology, market design, and project execution.

- First webinar:
- In partnership with THFCP, featuring Taiwanese stakeholders, with a focus on Indian green hydrogen policies and project developments
- Indicative speakers: ACME, AM Green, NTPC, and other leading ecosystem participants

2. Communications, Outreach & Thought Leadership

Knowledge dissemination: Blogs, explainers, and policy insights on green hydrogen, derivatives, certification, and market trends

Digital engagement: Continued focus on LinkedIn as a primary platform for industry outreach

- **Growth milestone:** LinkedIn community expanded from 3,000 to over 13,000 followers during 2025

Objective for 2026: Sharper content, higher frequency, and stronger engagement with policymakers, industry leaders, and international audiences

3. International Engagement & Delegations

GH2 India will continue to support international engagement to strengthen India's positioning in global green hydrogen discussions, trade, and partnerships.

These platforms will be used to support policy dialogue, market access discussions, certification alignment, and partnership building

Planned participation and delegations include:

Hyvolution
PARIS

**World Leader in
Hydrogen**

January 2026

 **INDIA ENERGY WEEK**
27 - 30 JANUARY 2026
GOA, INDIA

75000 + Global attendees

**700+ Exhibiting
Companies**

9+ Country Pavilions

January 2026

 **WORLD
HYDROGEN**
SUMMIT & EXHIBITION

**India Delegation -
Side Events and
Site Visits**

May 2026

 **INDIA
GREEN
HYDROGEN
ASSEMBLY**

Hyvolution
INDIA

November 2026

S&P Global

- **Spanish Sovereign and Banking Outlook Seminar 2026** - Jan 27, 2026
- **Nordics Conference 2026** - Jan 29, 2026
- **2026 U.S. Insurance Hot Topics** - Feb 05, 2026
- **2026 Sustainable Finance Americas Forum** - Apr 22, 2026
- **42nd Annual Insurance Conference** - Jun 09, 2026

2026

11. GPSN - A GH2 India Initiative



To catalyse green fuels in maritime

Overview

The Green Ports and Shipping Network (GPSN) is a flagship initiative convened by GH2 India to accelerate the decarbonisation of India's maritime ecosystem by fostering collaboration across ports, shipping lines, regulators, technology providers, and financiers. The network focuses on practical pathways for deploying green hydrogen, green ammonia, green methanol, and related low-carbon marine fuels across the ports and shipping value chain, contributing to global climate goals and India's emerging leadership in sustainable fuel.

The maritime sector, responsible for over 80% of global trade, also contributes nearly 1 billion tonnes of CO₂ emissions annually, approximately 3% of global emissions. Transitioning this sector towards low- and zero-carbon fuels is critical for deep decarbonisation across heavy industry and long-distance logistics.

Purpose and Strategic Importance

GPSN was established to respond to three converging trends:

- India's strategic positioning as a low-cost producer of renewable energy and green fuels, backed by over 250 GW of installed capacity and strong policy frameworks for green fuel expansion.
- The growing imperative under global maritime agreements and frameworks (including IMO decarbonisation targets) to adopt green fuels and support zero-emission logistics.
- The need for an integrated platform that aligns policy, technology, finance, and industrial participation to de-risk first-mover projects, develop standards, and build enabling infrastructure across ports and shipping networks.

By bringing together cross-sector actors in a single collaborative network, GPSN strengthens India's capacity to support maritime fuel transitions, enhances policy integration, and accelerates investments into infrastructure readiness for green fuels like hydrogen, ammonia, and methanol.

Objectives of GPSN

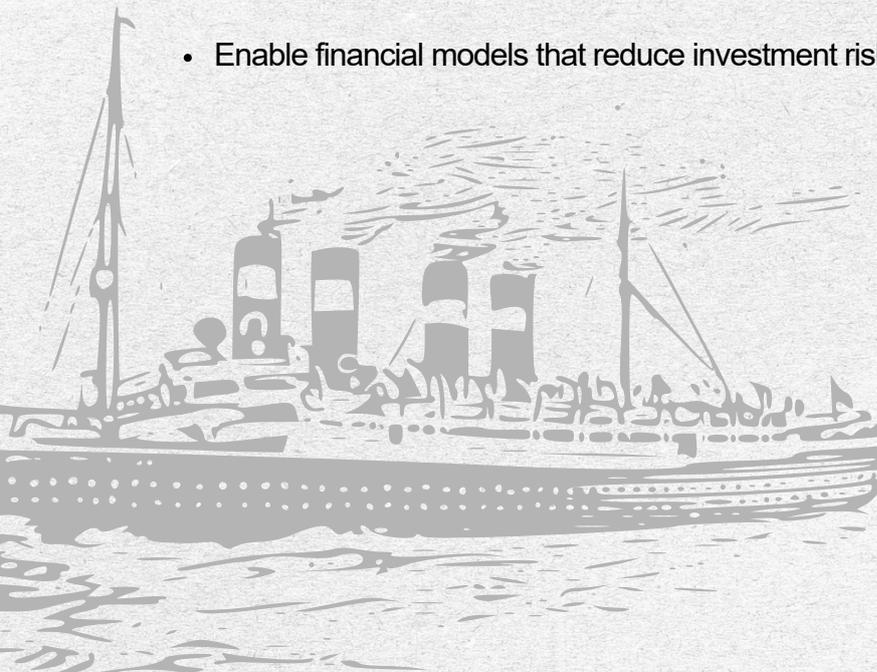
GPSN has been structured around several core objectives:

- **Accelerated decarbonisation of ports and shipping** : Advancing the adoption of green hydrogen and derivative fuels across port operations, bunkering facilities, and vessel propulsion to achieve tangible reductions in greenhouse gas emissions.
- **Policy and regulatory alignment** : Strengthening clarity on standards, certifications, incentives, and regulatory frameworks to support production, distribution, and utilisation of green fuels in the maritime sector.
- **Mobilising investment and finance** : Attracting new capital flows into green port infrastructure and hydrogen-based fuels through policy advocacy, innovative financing models, and collaboration with financial stakeholders.
- **Technical capacity and workforce development** : Enhancing technical expertise and operational proficiency in green hydrogen, ammonia, and methanol technologies to support deployment, scaling, and local innovation within India's maritime ecosystem.

Programme Components

GPSN is structured around a mix of targeted dialogues, technical workstreams, pilot collaborations, and stakeholder forums that:

- Link industry (ports and shipping) with technology developers and regulators
- Facilitate exchange of best practices and international learnings
- Identify pathways for infrastructure readiness and supply chain development
- Support policy formulation that integrates energy, trade, and maritime regulations
- Enable financial models that reduce investment risk for first-mover projects



These programme components are designed to bridge gaps between policy and practice, ensuring that India's maritime fuel transition is systemic, scalable, and aligned with both national decarbonisation targets and global compliance frameworks.

Expected Outcomes



Accelerated Decarbonization of Ports and Shipping

Tangible reductions in GHG emissions through the adoption of green hydrogen and ammonia in port operations, bunkering, and vessel propulsion.



Strengthened Policy and Regulatory Frameworks

Enhanced clarity on standards, certifications, and incentives for green fuel production, distribution, and usage in maritime logistics.



Increased Private and Public Investments

Mobilization of new capital inflows into green port infrastructure and hydrogen-based fuels, driven by policy advocacy and innovative financing models.



Improved Technical Expertise

Availability of a skilled workforce proficient in managing and operating green hydrogen and ammonia technologies, fostering local innovation.

Relevance to India's Energy Transition

India's renewable energy capacity, expected to reach over 500 GW by 2030, and its cost competitiveness in producing sustainable fuels (e.g., green ammonia) position the country as an ideal provider of clean maritime energy. GPSN supports aligning this potential with global trade and decarbonisation pathways, enabling India to contribute meaningfully to maritime sector transitions and integrated value chains for green fuels.

12. Meet the team

Behind GH2 India's work is a committed group of people working across data visualisation, policy research, partnerships, and coordination with industry and government stakeholders.

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