

Green Hydrogen Tools Training
- Asia

Training on ISA's Green Hydrogen Assessment and Planning Tools



Agenda

The detailed agenda for the International Solar Alliance (ISA) green hydrogen tools training is given below:

Date: 04 February 2026 (Wednesday)

Time: 11:00 AM – 01:00 PM (Indian Standard Time) | 5:30 AM - 7:30 AM Coordinated Universal Time (UTC)

Link: Click on [this link to register](#) for the training

S. No.	Topic	Time	Presenters/Speakers
1	Welcome Address	3 mins	Mr. Nar Bahadur Khatiwora (Regional Head, Asia, ISA)
2	Special Address	5 mins	Mr. Tron Andre Svanes , (Energy Specialist, ADB)
3	Keynote Address – Vice President country of the Asia Region	5 mins	Prof. K T M Udayanga Hemapala , Secretary, Ministry of Energy (MOE), Government of Sri Lanka (Hon'ble NFP to ISA) (TBC)
4	Presentation on ISA Programme 'Solar for Green Hydrogen'*	5 mins	Dr. Mridula Bharadwaj (Co-Lead, Technology Roadmap and Policy, ISA)
5	Training on ISA Green Hydrogen (GH) Tools: • Country readiness tool • GH cost assessment tool • GH project risk assessment tool • Hydrogen carbon accounting tool	85 mins	Project Team (ISA – KPMG India)
6	Audience Interaction	15 mins	Audience
7	Closing Remarks	2 mins	Dr. Mridula Bharadwaj (Co-Lead, Technology Roadmap and Policy, ISA)
	Total Time	120 mins	

* Please refer to the annexure for the programme details

Context for the ISA Green Hydrogen Tools Training

ISA, in partnership with the Asian Development Bank (ADB), conducted a study 'Ecosystem Readiness Assessment for Production and Utilisation of Green Hydrogen'. As part of the study, the following four activities were performed:

- Deep Dive into shortlisted [10 member countries](#) across all geographies (Nepal, Bhutan, Sri Lanka, Tunisia, Ghana, Argentina, Peru, Trinidad and Tobago, Fiji, and Papua New Guinea), launched at ACEF 2025
- Create [commercial frameworks for the development of hydrogen hubs](#), launched at ACEF 2025
- [Stakeholder consultation workshop](#) (held in February 2025)
- Design, development and launch of GH tools on the [GHIC Portal](#):
 - [Country readiness tool](#): Enables assessment of the readiness of the country in deploying the technologies
 - [GH cost assessment tool](#): Enables the users to evaluate economic feasibility of the technology
 - [GH project risk assessment tool](#): Enables stakeholders to identify and mitigate project risk
 - [Hydrogen carbon accounting tool](#): Enables end-use sectors to estimate their carbon emissions

Detailed training will be provided on the tools mentioned above.

Annexure

About ISA Green Hydrogen Programme

The International Solar Alliance (ISA) is a global initiative launched in 2015 by India and France at COP21 in Paris. ISA works with its 120+ Member and Signatory Countries to improve energy access and security, advocating the use of solar power as a sustainable transition to a clean energy future. ISA's evolving vision is anchored on four strategic pillars: (1) Catalytic Finance Hub to unlock and mobilise investments at scale; (2) Global Capability Centre and Digitisation to foster innovation, digital platforms, and capacity building across Member Countries; (3) Regional and Country-level Engagement to drive tailored interventions through strategic partnerships and (4) Technology Roadmap and Policy to accelerate the deployment of emerging solar technologies through actionable policy frameworks and knowledge resources. As a treaty based intergovernmental platform, ISA provides technical guidance, policy leadership, and global coordination to support its Member Countries in scaling solar energy.

ISA's programme 'Solar for Green Hydrogen': The transition to a low-carbon future necessitates the rapid development and deployment of clean and sustainable energy sources. Green Hydrogen (GH), produced through the electrolysis of water using renewable electricity, emerges as a promising solution to decarbonise hard-to-abate sectors such as refinery, steel, cement, transportation, fertiliser, and power generation.

Recognising the pivotal role of GH in achieving global climate goals, ISA launched a programme on '[Solar for Green Hydrogen](#)' in its Fourth Assembly held in October 2021. The objective of this programme is to accelerate GH production, utilisation, and trade in ISA Member Countries. It supports Member Countries in building strong GH ecosystems by strengthening **policy, standards, safety, skills, and investment readiness** across the value chain. Through **readiness assessments, knowledge products, partnerships, and capacity-building**, ISA is helping Member Countries move from ambition to scalable implementation.

Under Phase 1 of this programme, the ISA in partnership with ADB, developed a report on GH ecosystem readiness assessment across a few shortlisted ISA Member Countries. In this report – '[Blueprint for Ecosystem Readiness Assessment for Green Hydrogen](#)', a subset of ISA Member Countries was considered. The report was launched at COP27 in November 2022 in Egypt.

Further, ISA along with European Investment Bank and African Union published a report on 'Africa Solar Hydrogen Project ([ASHyP](#))', which proposed harnessing Africa's solar energy to produce 50 MTPA of GH by 2035. This study, in partnership with the Government of Mauritania, HyDeal Espania, and UCLG Africa, was showcased at COP27.

ISA, with ADB and New Energy and Industrial Technology Development Organization, Japan (NEDO), published '[A Roadmap for Developing and Scaling the Green Hydrogen Ecosystem](#)' to facilitate building GH value-chain, especially for hard-to-abate sectors. The roadmap outlines technological advancements in electrolyzers; Regulations, Codes and Standards for GH Production and Use including country deep dive analysis for Brazil, Chile, and India.

ISA, in partnership with Ministry of New and Renewable Energy, Government of India (MNRE) and ADB, under the **G20** 2023 India Presidency has created a virtual '**Green Hydrogen**

Innovation Centre' [GHIC]. The GHIC platform was launched at the G20 Energy Transitions Ministerial Meeting (ETMM), and subsequently, was included in the [G20 Leaders' Summit Delhi Declaration in September 2023](#). This Centre of Excellence supports the production, utilisation, and trade of GH, besides providing a platform for knowledge sharing and building competency across the GH value chain. The GHIC also provides opportunities to incubate [start-ups](#), provides certified training, and hosts Expert Working Groups to support the scale-up of the GH ecosystem in Member Countries.

The ISA, along with Indian National Academy of Engineers (INAE), conducted a [Proceedings on Green Hydrogen](#), in New Delhi in April 2024. It focused on India's National Green Hydrogen Mission, policies, demand creation, technology, and the role of GH in energy transition. The experts discussed investment needs, infrastructure, standards, and strategies for boosting utilisation and cost-competitiveness.

Under the ISA - Denmark Partnership, a study, '[Readiness Assessment of Green Hydrogen in African Countries](#)' was conducted for four African countries (Egypt, Morocco, Namibia, and Ethiopia) that have strong developing trends and significant potential to become major GH hubs. The report was launched at the Seventh Session of the ISA Assembly in November 2024.

The ISA and Green Hydrogen Organisation, Geneva organised the Green Hydrogen Policy Accelerator Training Programme (GHPAT) in August 2024 and October 2024. The programme successfully conducted two in-person training workshops that took place in Cairo and New Delhi, with 80 government representatives from 27 ISA Member Countries, reflecting a global commitment to advancing the GH sector. This training aimed to enhance the skills and knowledge of government officials in the GH sector through comprehensive training and practical demonstrations. ISA launched the training handbook titled '[Green Hydrogen Policy Accelerator Training Course \(GHPAT\)](#)' at COP 29. The GHPAT workshops were preceded by a hydrogen safety in-person training course conducted, in partnership with Greenstat Norway, for South Asian member countries of ISA at the ISA – ADB Technical Assistance workshop in Sri Lanka in May 2024.

ISA, in partnership with ADB, has conducted four workshops with stakeholders from [Asia, Pacific, Africa, Latin America and Caribbean](#) regions to provide in-depth assessment of [10 ISA member countries](#) to evaluate the GH ecosystem readiness. The participating countries were Bhutan, Nepal, Sri Lanka, Fiji, Papua New Guinea, Ghana, Tunisia, Argentina, Peru, and Trinidad and Tobago. The deep dive studies aim to assess readiness for GH across participating countries. They examine national policies and strategies for production and end use, as well as regulations, partnerships, and market development. The studies also evaluate sector attractiveness, including power generation, maritime bunkering, transportation, long-duration energy storage, cement, iron and steel, oil refining, and other relevant sectors. The findings of the deep dive studies and the report on [framework for development of GH Hubs](#) were launched at the ACEF 2025 in Manila, Philippines.

At COP30, ISA launched the [executive summary](#) of the World Green Hydrogen Outlook Report. The report aims to guide policymakers, investors, and industry leaders in shaping resilient ecosystems through integrated hubs, innovative financing models, and localisation of manufacturing. It underscores the role of digital enablers like artificial intelligence and advanced material research in driving efficiency and cost reduction, while advocating for cohesive policy frameworks and global collaboration. The full report will be released in an upcoming event.

