

**LIVE** Panel Discussion on

## **GREEN HYDROGEN: Innovations and Opportunities**

 8 February 2023 | 10:30 - 12:00 hours IST | ISA Pavilion | Bengaluru | India

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### **Concept Note**

#### **Context**

The urgency for climate action and the inevitability of energy-dependent economies make it imperative to replace fossil fuels with cleaner energy sources. However, the viability of alternate sources of energy to mitigate GHG emissions, particularly in the hard-to-abate sectors, is a concern. The lack of viable alternatives and cost and supply disruptions of natural gas due to geopolitical uncertainties have renewed interest in the hydrogen sector. Hydrogen is emerging as a viable alternative to fossils as it is a versatile fuel with ease of transport and storage. The plummeting costs of renewable energy like solar PV have further increased the prospects for the sector, evident from the hydrogen strategies released by at least 17 governments. Furthermore, more than 20 governments have announced the development of pipelines for such strategies.

#### **Discussion**

The panel discussion will feature organizations in the green hydrogen (GH<sub>2</sub>) sector and cover relevant aspects of the GH<sub>2</sub> value chain. Strategies to accelerate and scale up GH<sub>2</sub> production, utilization and trade will be the focus of the discussion.

#### **Key areas of discussion**

- ✓ **Technology Development** : Advances in hydrogen production methods (electrolysis), transport, storage and innovations in fuel cell value chain.
- ✓ **Regulations, Codes, and Standards (RCS)** : Global and national level standardization activities for green hydrogen, as well as essential parameters for GH<sub>2</sub> definition/certification, evaluation and standardization processes.
- ✓ **Market Analysis and Innovative Business Models** : Short, mid and long-term demand for green hydrogen and policies to reduce investment risk; appropriate business models for long-term off-take agreements, and cross-border commerce.
- ✓ **GH<sub>2</sub> Value Chain Resiliency** : Strengthening the GH<sub>2</sub> value chain through enabling policy instruments; promotion of private-sector manufacturers in matching supply with rising market demand and impact of decreasing electrolyzer and renewable energy cost on GH<sub>2</sub> production costs.



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## Expected Outcome

- Spotlight technological advancements including those in the currently evolving electrolyser sector.
- Discussion on the benchmarking of Regulations, Codes, and Standards (RCS) for green hydrogen production and use, based on the state-of-the-art certification and protocols.
- Analysis of GH2 market, cost and demand of electrolyzers, policies for mitigating investment risk, long-term offtake agreements, and cross-country trade.
- Understanding the GH2 value chain integration.

## Target Audience

All stakeholders in the GH2 value chain including renewable energy developers, electrolyzer manufacturers, hydrogen storage and transportation companies, end-users, Government and regulatory bodies, research and development (R&D) organizations, financial institutions, environmental organizations and ISA member country representatives.

## Panel Discussion set-up

- ✓ **Mode :** Hybrid (at ISA Pavilion in person. Live streaming via youtube and video conferencing via Zoom)
- ✓ **Format :** Inaugural session (20 minutes); Presentation of ISA Programme - Solar for Green Hydrogen (5 minutes); Panel discussion and audience interaction (60 minutes); Vote of Thanks (5 minutes)
- ✓ **Date, Time and Duration :** 8 February 2023, 10:30 - 12:00 hours IST , 90 minutes
- ✓ **Organizing Team :** Mr. Joshua Wycliffe, Chief of Operations, ISA  
Mr. Remesh Kumar, Acting Chief of Unit, PPIC, ISA  
Dr. Mridula Bharadwaj, Capacity Building Specialist, ISA ADB TA  
Ms Yutan Sunya, National Coordinator Communications Specialist, ISA ADB TA

For more details, contact: [info@isolaralliance.org](mailto:info@isolaralliance.org)

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## AGENDA

Agenda Item	Duration	Speakers
<b>Inaugural Session</b>	10:30 - 10:50 hours IST	<ul style="list-style-type: none"><li>• <b>Dr Ajay Mathur</b>, DG, ISA</li><li>• <b>Dr Priyantha Wijayatunga</b>, Chief of Energy Sector Group, ADB</li><li>• <b>Mr Dinesh Jagdale</b>,* Joint Secretary, MNRE, Government of India</li><li>• <b>Mr Rajnath Ram</b>, Adviser (Energy), Niti Aayog</li><li>• <b>Ministry of Petroleum and Natural Gas</b>*, Government of India</li></ul>
<b>Presentation on ISA Programme - Solar for Green Hydrogen</b>	10:50 - 10:55 hours IST	<ul style="list-style-type: none"><li>• <b>Dr Mridula Bharadwaj</b> Capacity Building Specialist International Solar Alliance</li></ul>
<b>Panel Discussion</b>  <b>Moderator:</b>  <b>Mr Jiwan S Acharya</b> Principal Energy Specialist, South Asia, ADB	10:55 - 11:40 hours IST	<ul style="list-style-type: none"><li>• <b>Mr. K.R. Jyothilal</b>, IAS , Additional Chief Secretary , Govt of Kerala, India</li><li>• <b>Ms Cristina Martin</b>, VP, Latin America and Caribbeans, HDF Energy</li><li>• <b>Mr Arnava Sinha</b>,* VP, BD, Greenko Group, India</li><li>• <b>Mr Jonas Moberg</b> , CEO, Green Hydrogen Organization, Geneva</li><li>• <b>Dr SSV Ramakumar</b>, Director (R&amp;D) and Board Member, Indian Oil Corporation, India</li><li>• <b>Prof Prakash Ghosh</b>, IIT Bombay, India</li></ul>
<b>Audience interaction</b>	11: 40 - 11:55 hours IST	<ul style="list-style-type: none"><li>• <b>Moderator</b></li></ul>
<b>Vote of Thanks</b>	11:55 - 12:00 hours IST	<ul style="list-style-type: none"><li>• <b>International Solar Alliance</b></li></ul>

\* To be confirmed

**For more details, contact: [info@isolaralliance.org](mailto:info@isolaralliance.org)**

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