

# UN CLIMATE CHANGE CONFERENCE – UNITED ARAB EMIRATES

30 NOVEMBER – 12 DECEMBER 2023

## THE SOLAR HUB



# GREEN HYDROGEN: IS IT A GAME-CHANGER FOR HIGH ENERGY-INTENSIVE SECTORS?

Co-Host



In Collaboration with



Thematic Arena 3, TA3-190, Opportunity District, Expo City, Dubai

2 DECEMBER, 2023 | 10:30 AM – 12:00 PM

### Background & Rationale

Harnessing renewable energy potential and the green hydrogen economy offers opportunities for developing and emerging markets to develop clean energy-intensive industries while helping decarbonize hard-to-abate sectors. It is proposed that the International Solar Alliance (ISA) and the Asian Development Bank (ADB), along with the Green Hydrogen Organization and the Africa Green Hydrogen Alliance, host a side event at COP28 on green industrialization opportunities in developing and emerging economies and the role of solar energy and green hydrogen.

The session aligns well with the ISA's plans on green hydrogen road mapping and ecosystem readiness assessment<sup>1,2&3</sup> and support to its member countries through the virtual Green Hydrogen Innovation Centre (GHIC)<sup>4</sup> launched by the International Solar Alliance in partnership with the G20 India Presidency 2023.

### Session Objectives

- Showcase renewable energy and green hydrogen energy projects to high energy-intensive industries and end users.
- Demonstrate policy and regulatory instruments available to support the growth of green industrialization in developing and emerging economies.
- High energy-intensive industries and hydrogen customers that will serve as the renewable energy and green hydrogen demand anchor such as green manufacturing, hydrogen/ammonia, fertilizer, steel, synthetic fuels, sustainable aviation fuels, mining, and energy storage.
- Create a forum for sharing best practices and emerging early lessons in technology, Policy and Regulations and enhance collaboration towards the realization of renewable energy and green hydrogen potential for green industrialization.

<sup>1</sup> <https://isolaralliance.org/uploads/Solar%20Hydrogen%20Report.pdf>

<sup>2</sup> <https://isolaralliance.org/uploads/docs/41a9f424e3e6a07585d7110827cd62.pdf>

<sup>3</sup> <https://isolaralliance.org/uploads/O6623cc7ae739a028460cd1cddc4c3.pdf>

<sup>4</sup> <https://isa-ghic.org/>

<b>Agenda</b>	
10:30 - 10:35 AM	<p><b>Welcome and Opening Remarks</b>  <b>Dr Ajay Mathur</b>, Director General, International Solar Alliance (ISA)</p>
10:35 - 10:40 AM	<p><b>Inaugural Address</b>  <b>Andrew Jeffries</b>, Advisor, Just Energy Transition Partnership, Asian Development Bank (ADB)</p>
10:40 - 10:45 AM	<p><b>Special Address</b>  <b>Jonas Moberg</b>, CEO, Green Hydrogen Organization</p>
10:45 - 10:50 AM	<p><b>Keynote Address</b>  Ministry of New and Renewable Energy, Govt of India</p>
10:50 - 10:58 AM	<p><b>Presentation on ISA Green Hydrogen Programme</b>  <b>Dr Mridula Bharadwaj</b>, Capacity Building Specialist, International Solar Alliance (ISA)</p>
10:58 - 11:58 AM	<p><b>Panel Discussion</b>  <b>Moderator</b>  <b>Jonas Moberg</b>, CEO, Green Hydrogen Organization, Geneva</p> <p><b>Special Interventions</b></p> <ul style="list-style-type: none"> <li>▪ <b>H.E. Gert Jan Koopman</b>, Director General, Directorate-General for Neighbourhood and Enlargement Negotiations (DG NEAR), European Commission, Belgium</li> <li>▪ <b>H.E. Yonis Ali Guedi</b>, Minister of Energy in Charge of Natural Resources, Djibouti</li> <li>▪ <b>H.E. Lars Steen Nielsen</b>, Consul General, Head of Mission, Denmark in the United Arab Emirates, Dubai</li> </ul> <p><b>Panellists</b></p> <ul style="list-style-type: none"> <li>▪ <b>Araceli Fernandez Pales</b>, Head of Technology Innovation Unit, International Energy Agency (IEA)</li> <li>▪ <b>Dr Martin Keller</b>, Director, National Renewable Energy Lab (NREL), USA</li> <li>▪ <b>Mathieu Geze</b>, Director Asia, HDF Energy, Indonesia</li> </ul>
11:58 - 12:00 PM	<p><b>Closing Remarks &amp; Vote of Thanks</b>  International Solar Alliance (ISA)</p>



## About the International Solar Alliance (ISA)

The International Solar Alliance is an international organisation with 116 Member and Signatory countries. It works with governments to improve energy access and security worldwide and promote solar power as a sustainable transition to a carbon-neutral future. ISA's mission is to unlock US\$ 1 trillion of investments in solar by 2030 while reducing the cost of the technology and its financing. It promotes the use of solar energy in the agriculture, health, transport, and power generation sectors. ISA Member Countries are driving change by enacting policies and regulations, sharing best practices, agreeing on common standards, and mobilising investments. ISA is partnering with multilateral development banks (MDBs), development financial institutions (DFIs), private and public sector organisations, civil society, and other international institutions to deploy cost-effective and transformational solutions through solar energy.

## About the Asian Development Bank (ADB)

The Asian Development Bank (ADB) is a regional development bank established in 1966 and headquartered in Manila, the Philippines. It has 68-member countries, including 49 from the Asia Pacific region and 19 from other regions. Its main objective is to reduce poverty and improve living standards in the region. The bank provides financial assistance, technical support, and policy advice to its member countries. It focuses on various sectors such as infrastructure development, energy, transportation, water supply, education, health, agriculture, and rural development. The bank offers loans, grants, and guarantees to finance projects and programs. It also promotes regional cooperation and integration to stimulate economic growth and stability. In addition, the ADB emphasises good governance, environmental sustainability, and inclusive development.

## About the Green Hydrogen Organisation (GH2)

GH2 is a Swiss non-profit foundation established by a group of leading companies<sup>2</sup> with a mission to dramatically accelerate the production and utilization of green hydrogen globally. It is a multi-stakeholder organisation which pushes to rapidly decarbonize industries like steel, cement, fertilisers, shipping, and aviation. GH2 brings together government, industry, and civil society to enable the rapid uptake of green hydrogen globally. In addition to its office in Geneva, it is present in London, Oslo, Perth, Nairobi and New Delhi.

## About the Africa Green Hydrogen Alliance (AGHA)

Africa Green Hydrogen Alliance (AGHA) is a government-led platform that aims to make the African continent a frontrunner in the race to develop green hydrogen, accelerating the transition from reliance on fossil fuels and shift to new energy technologies that open access to clean, affordable energy supplies to all. In forming the Alliance, the founding countries Egypt, Kenya, Mauritania, Morocco, Namibia, and South Africa intend to foster collaboration on creating a sustainable enabling environment to supercharge large-scale renewable projects and green hydrogen development. Members collaborate on the development of public and regulatory policy, capacity building, financing and certification needs to mobilise green hydrogen production for domestic use and export. The Alliance also aims to respond to the opportunities presented by lower-cost renewables, fast-developing electrolyzer technology, and signals in some major markets that green hydrogen demand is likely to emerge at scale this decade.

