

ECOSYSTEM READINESS ASSESSMENT FOR PRODUCTION AND UTILISATION OF GH

Stakeholder Consultation Workshops (Asia: Bhutan, Nepal, and Sri Lanka)



Date: 24th February 2025, 11:30 AM – 01:00 PM (Bhutan Standard Time), 11:15 AM – 12:45 PM (Nepal Standard Time), 11:00 AM – 12:30 PM (Sri Lanka Standard Time), 11:00 AM – 12:30 PM (India Standard Time)

Background:

Green Hydrogen (GH) is rapidly gaining global attention as a key enabler of a sustainable and low-carbon future. Recognizing the pivotal role of GH in achieving global climate goals, the International Solar Alliance (ISA) launched a programme on ‘Solar for Green Hydrogen’ in October 2021. This initiative aims to:

- Support policy development for GH implementation.
- Strengthen infrastructure for GH production and distribution.
- Enhance market development for large-scale GH deployment.

Under Phase 1 of this programme, the ISA in partnership with Asian Development Bank (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.

Project Overview:

ISA is now conducting Phase 2 of this study. It comprises of three activities:

- Deep Dive into shortlisted 10 member countries across all geographies¹
- Design, develop and launch GH tools
- Create commercial frameworks for the development of hydrogen hubs.

ISA is conducting an in-depth readiness assessment to evaluate the GH ecosystem in Bhutan, Nepal, and Sri Lanka. The deep dive study aims to provide a readiness assessment for production/use of green hydrogen, encompassing national policies/strategies for production/end-use of green hydrogen, regulations, partnerships and cooperations, market development and sector attractiveness, such as:

| | |
|------------------------------------|---------------------------|
| Power generation | Transportation |
| Fertilizers & Chemicals | Steel & cement |

Expected Outcomes:

The workshop will provide key insights and recommendations to support GH ecosystem development in Bhutan, Nepal, and Sri Lanka, including:

- **Country-level GH infrastructure assessment** - Identifying critical enablers for large-scale adoption.
- **Evaluation of policy and regulatory frameworks** - Analyzing existing policies and potential areas for reform.

- **Infrastructure readiness and gap analysis** - Understanding the current capacity and future expansion needs.
- **Cost assessment of GH production** - Exploring the feasibility of GH generation using solar PV, wind, CSP, and other renewable sources.
- **Actionable stakeholder recommendations** - Gathering expert inputs to shape a robust GH roadmap.

Agenda:

| S. No. | Topic | Time (mins) | Presenters / Speakers |
|--------|--|-------------|--|
| 1 | Opening Remarks | 5 | Mr. Ramesh Kumar Kuruppath (Chief of Unit, PPIC, ISA) |
| 2 | Welcome address | 5 | Mr. Emanuele Bianco , Energy Specialist, Asian Development Bank |
| 3 | Keynote address | 3 | Mr. Karma Tshering , Secretary, Ministry of Energy and Natural Resources (MoENR), Royal Government of Bhutan (Hon’ble NFP to ISA) |
| 4 | Keynote address | 3 | Prof. K T M Udayanga Hemapala , Secretary, Ministry of Energy (MOE), Government of Sri Lanka (Hon’ble NFP to ISA) |
| 5 | Keynote address | 3 | Mr. Sandip Kumar Dev , Joint Secretary, Ministry of Energy, Water Resources and Irrigation (MoEWRI), Government of Nepal (Hon’ble NFP to ISA) |
| 6 | ISA Presentation - Solar for Green Hydrogen Programme | 5 | Dr. Mridula Bharadwaj (Programme Lead – Green Hydrogen, ISA – ADB TA) |
| 7 | Presentation - Readiness Assessment of Green Hydrogen in Asian Countries | 40 | ISA Project team (KPMG) |
| 8 | Stakeholders’ feedback, Q/A and discussion | 20 | Q/A and discussions |
| 9 | Closing remarks | 3 | Mr. Ramesh Kumar Kuruppath (Chief of Unit, PPIC, ISA) |
| 10 | Vote of Thanks | 3 | Mr. Nar Bahadur Khatiwora (Regional Head, Asia, ISA) |
| 11 | Total Time | 90 | |

Why Attend?

- Insights and discussions on Bhutan, Nepal, and Sri Lanka’s GH potential.
- Identify challenges and opportunities for the countries.
- Engage with policymakers, industry leaders, and experts.
- Contribute to shaping policy recommendations and roadmaps.

¹ The ten countries are Nepal, Bhutan, Sri Lanka, Fiji, Papua New Guinea, Peru, Argentina, Trinidad and Tobago, Tunisia, and Ghana