

## Training program on “Techno-economic Considerations for the Design of Green Hydrogen Projects”

### Learning Objectives:

- Technology understanding of green hydrogen and green ammonia plant
- Sizing of green hydrogen and green ammonia plants
- Economics of green hydrogen and green ammonia plants
- Risks associated with the technology

**Date:** February 03, 2023

**Location:** The Gallery Room, JW Marriott, New Delhi

**Expected duration:** 1 day (09:00 – 17:30 IST)

Time/length	Session
09:00 – 09:30	<b>Registration</b>
09:30 – 10:00 (30 min)	<b>Opening Session</b> <ul style="list-style-type: none"> <li>• Dr. Praveen Saxena, CEO, Skill Council for Green Jobs</li> <li>• Mr. DMR Panda, General Manager, NTPC REL</li> <li>• Mr. Anurag Mishra, Senior Clean Energy Specialist, USAID/ India</li> <li>• Mr. Rakesh Goyal, Chief of Party, USAID SAREP</li> <li>• Mr. Sumedh Agarwal, Deputy Chief of Party, USAID SAREP</li> </ul>
10:00 – 10:30 (30 mins)	<b>Policy landscape for Green Hydrogen Economy</b> (Mr. Deepak Rai, VP – Standards and Research, Skill Council for Green Jobs)
10:30 – 11:30 (60 min)	<b>Key components and technology selection</b> <ul style="list-style-type: none"> <li>• Green Hydrogen plant</li> <li>• Green Ammonia plant</li> </ul> (Mr. DMR Panda, General Manager, NTPC Limited)
11:30 – 11:45 (15 min)	<b>Tea/Coffee break</b>
11:45 – 12:45 (60 min)	<b>Sizing principle for a typical green hydrogen plant and its electricity requirement</b> (electrolyzer, compressor, storage) (Mr. Satyajit Phadke, USAID SAREP)
12:45 – 13:30 (45 min)	<b>Sizing principle for a typical green ammonia plant</b> (synthesis, separation, storage) (Mr. Arunachalam Kanakgiri, USAID SAREP)
13:30 – 14:15 (45 min)	<b>Lunch break</b>
14:15 – 15:00 (45 min)	<b>Costing and economics</b> <ul style="list-style-type: none"> <li>• Green Hydrogen</li> <li>• Green Ammonia</li> </ul> (Mr. Abhinav Mittal, USAID SAREP)
15:00 – 15:45 (45 min)	<b>Hands-on exercise on sizing and economics</b> (Mr. Vivek Salwan, USAID SAREP)



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15:45 – 16:00 (15 min)	<b>Tea/Coffee break</b>
16:00 – 16:30 (30 min)	<b>Key risks and insights for planning</b> (Ms. Kirtika Challa, USAID SAREP)
16:30 – 17:00 (30 mins)	<b>Open house discussions on skill development in green hydrogen sector</b> (Mr. Deepak Rai, VP – Standards and Research, Skill Council for Green Jobs)
17:00 – 17:30 (30 mins)	<b>Post-training assessment and feedback</b> <ul style="list-style-type: none"><li>• Completion of pre-workshop evaluations by the participants</li><li>• Participant's feedback</li></ul> (Mr. Deepanker Bishnoi, USAID SAREP)
<b>Close of program</b>	