



## PROJECT NOTIFICATION

Reference No.: 257

<b>Date of Issue</b>	27 December 2023
<b>Project Code</b>	23-CP-50-GE-WSP-A
<b>Title</b>	Workshop on Green Hydrogen Systems for the Sustainable Energy Transition
<b>Timing</b>	7 February 2024–9 February 2024
<b>Hosting Country(ies)</b>	India
<b>Venue City(ies)</b>	Not Applicable
<b>Modality</b>	Online
<b>Implementing Organization(s)</b>	National Productivity Council, India and APO Secretariat
<b>Participating Country(ies)</b>	All Member Countries
<b>Overseas Participants</b>	38
<b>Local Participants</b>	12
<b>Closing Date</b>	29 January 2024
<b>Remarks</b>	Not Applicable

<b>Objectives</b>	Understand the concept of green hydrogen and its role in meeting net-zero emission targets; examine emerging trends and their implications for fulfilling rising energy demand; and highlight key elements, along with successful cases, in creating green hydrogen ecosystems.
<b>Rationale</b>	COP 28 called for tripling renewable energy capacity and accelerating efforts to phase out coal use. New cleaner energy carriers including hydrogen are vital. The demand for hydrogen will continue to rise to assist efforts to decouple economic growth and environmental degradation. This is aligned with the APO flagship Green Productivity Program.
<b>Background</b>	<p>Hydrogen is a clean fuel without carbon emissions and has the highest specific energy among all fuels in use. Hydrogen is a feedstock for the oil refinery, fertilizer, and steel sectors, and is used in transportation and energy storage where it generates power and heat. The International Renewable Energy Agency reported that hydrogen could account for 12% of global energy use by 2050 and producing green hydrogen could result in carbon emission reductions of 9–20 CO<sub>2</sub>-eq/kg of hydrogen produced from renewable sources.</p> <p>Utilizing renewable energy to produce hydrogen will contribute to achieving net-zero emission targets without impacting the desired economic output. It complements rapid transition to sustainable energy sources while decarbonizing parts of the economy, thereby leading to overall socioeconomic development.</p>
<b>Topics</b>	Understanding hydrogen production and key sustainability elements; Emerging technological trends and market opportunities in the transport sector; Green hydrogen technologies in building systems; Creating a green hydrogen ecosystem through regulations and incentives; Technical and economic barriers in green hydrogen value chains; and Green hydrogen policies in APO members.
<b>Outcome</b>	Enhanced understanding of hydrogen production; green hydrogen technologies introduced; awareness of green hydrogen policies and regulations enhanced; and increased production and use of green hydrogen among APO members.
<b>Qualifications</b>	Government officials, policymakers, senior representatives of industry associations, NPO officials, and trainers and consultants working on climate change mitigation and energy transition.

Please refer to the implementation procedures circulated with this document for further details.



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