

APEC EWG_105_2024A

Certification of Hydrogen and its Derivatives: its role in the driving market

Ministry of Energy, Chile

April 2025



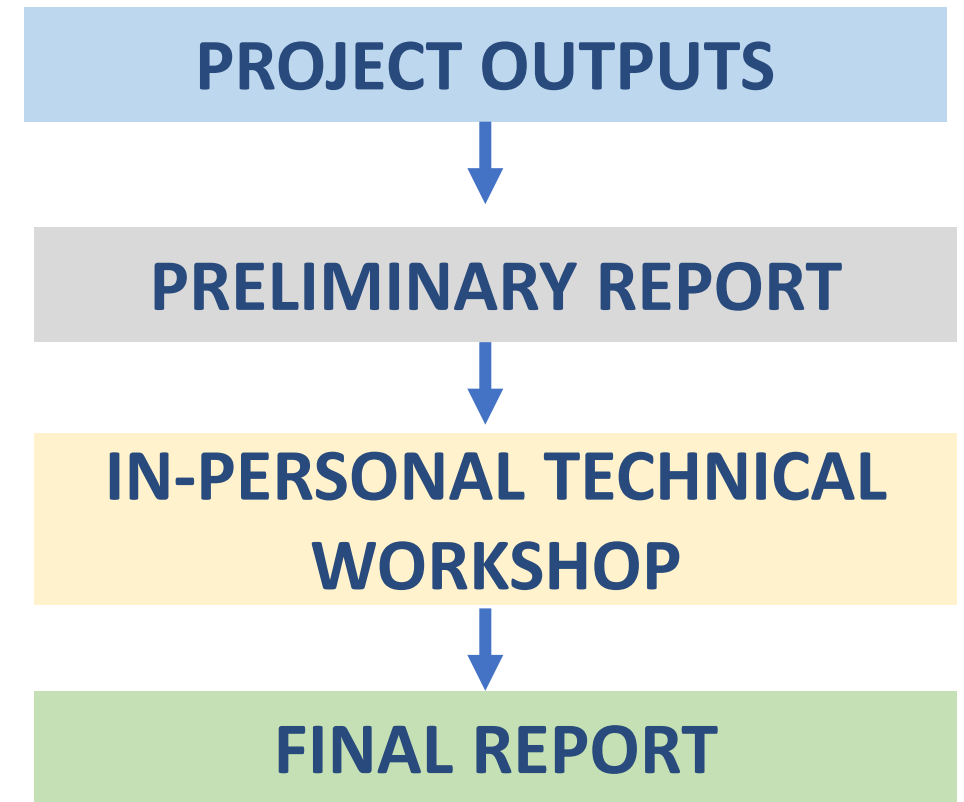
AGENDA

- **Project Summary and Objectives**
- **Preliminary Report**
- **Technical Workshop**



SUMMARY

- The project seeks to **analyze the best-known international standards to date and how APEC economies are implementing the necessary institutional arrangements** to be able to comply with the certification of renewable hydrogen and its derivatives, such as ammonia and low or zero emission synthetic fuels.
- Through a **technical exchange and information gathering**, a **workshop and a technical report** will be developed to systematize and synthesize the discussions and provide recommendations on the implementation of these arrangements.
- The topic of the project is expected to **benefit all APEC economies**, especially considering the relevance of hydrogen highlighted by Peru as APEC host in 2024 and the “APEC policy guidance to develop and implement low-carbon hydrogen policy frameworks in the Asia-Pacific.
- Co-sponsors: Canada; Hong Kong, China; Korea; Peru; Singapore; United States



PRELIMINARY REPORT

- This report synthesizes two distinct but interconnected perspectives: (1) a country-by-country overview of a literature review of hydrogen policies and regulations, and (2) a survey-based assessment of readiness, barriers, and opportunities for harmonization among APEC members.
- The survey was answered by 9 APEC economies, including Australia; Chile; People's Republic of China; Hong Kong, China; Mexico; New Zealand; Papua New Guinea; Philippines and Viet Nam.
- A clear pattern is evident: **hydrogen standards are evolving** quickly, propelled by national goals for carbon neutrality and energy security. Advanced systems, Australia's, Japan's and China's evaluation standards, underline how **robust certification can strengthen trust, attract investment, and expedite international market integration.**



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APEC Energy Working Group

March 2025

TECHNICAL WORKSHOP

- The workshop is a a two-day event scheduled for **May 5-6, 2025**, targeted at different stakeholders within APEC economies, aiming to provide a platform for knowledge exchange, stakeholder engagement, and consensus building for interoperable and compatible certification systems, which are key factor for the **growth and tradability of green and low carbon hydrogen within the APEC region**.
- Confirmed participation from **11 economies**: People's Republic of China, Chile, Indonesia, Japan, Malaysia, Papua New Guinea, The Philippines, Russia, Chinese Taipei, Thailand and Vietnam. 5 confirmed experts.



General Comproller of the republic building



WORKSHOP AGENDA

1. Section I: Understanding Certification and Key challenges

- State of the art of the Global Hydrogen Regulation for Certification
- Why Hydrogen Certification Matters

2. Section II: Chain of Certification, main barriers and challenges

- Certification Schemes: from production to offtakers

3. Section III: Moving Towards Implementation and Interoperability

- Major global developments and initiatives
- Opportunities for collaboration among APEC Economies

4. Section IV: Developing a Roadmap for Regional Harmonization

- Considerations for achieving interoperable certification schemes between APEC economies

ANNEX I AGENDA (DRAFT)

EWG_105_2024A The APEC Seminar
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05 - 06 May 2025 (GMT-4) Santiago, Chile

Tuesday, 5 May 2025 – Day 1	
08:30 – 09:00	Registration
09:00 – 09:30	Introduction <ul style="list-style-type: none">• Welcome• Project summary and objectives.• Seminar agenda• Group Photo• Welcome Remarks from Minister of Energy of Chile's authority
09:30 – 10:00	Keynote address: Green Hydrogen Action Plan 2020-2030 (Ministry of Energy of Chile)
Section I: Understanding Certification and Key challenges	
10:00 – 11:30	Topic 1: State of the art of the Global Hydrogen Regulation for Certification <ul style="list-style-type: none">• Overview of global hydrogen and derivatives regulations and the role of certification (Isabella Villanueva, Head of Planning and Climate Change Unit, Ministry of Energy of Chile)• Speaker 1: Overview of existing certification schemes and international outlook [Economy to be defined]• Q&A from the audience
11:30– 11:40	Coffee Break
11:40 – 12:50	Topic 2: Why Hydrogen Certification Matters? <ul style="list-style-type: none">• Speaker 2: The role of certification in triggering demand and high integrity for the hydrogen market [Economy to be defined]• Panel Discussion (including Q&A from the audience): Perspectives and Opportunities from APEC Economies [Economies to be defined]
12:50– 14:50	Lunch Break
Section II: Chain of Certification, main barriers and challenges	
14:50– 17:05	Topic 3: Certification Schemes: from production to offtakers <ul style="list-style-type: none">• Speaker 3: What do we talk about when we talk about certification? The process gate-to-gate [Economy to be defined]

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