



Global Knowledge Exchange Project



Global Knowledge Exchange



**CLEAN
HYDROGEN**
MISSION



**NET-ZERO
INDUSTRIES**
MISSION

Action long title: Mission Innovation Global Knowledge Exchange		Lead country / organization: Canada / Natural Resources Canada (led out of the NZI Mission)					
Assigned to Pillar: 1. R&I							
Short name of participating members/cooperation partners:	<i>NZI Mission (CAN & AUS)</i>						
Estimated Action Start Date: 02/23				Estimated Action End Date: 03/25			

Objectives – Draft



Through the proposed Action, participating Mission members would identify domestic industry partners willing to participate in an international initiative that will:

- Identify and prioritize key knowledge and information needs to accelerate the demonstration and deployment of industrial decarbonization technologies.
- Provide insights on issues surrounding Intellectual Property (IP), knowledge sharing, and commercial advantage.
- Agree on the forms of knowledge, information, and data that can be shared for mutual benefit, while ensuring commercially sensitive data/information is protected.
- Participate in knowledge exchange activities with Mission Members and global industry counterparts.
- Showcase leading industrial decarbonization technologies and innovators on a global stage.
- Elevate the Environmental, Social and Governance (ESG) profile of participating industry partners.
- The project will advance the effective management of knowledge outcomes from industrial decarbonization demonstration projects to increase the impact of federal funding while accelerating global action on climate change.
- Increase synergies between Missions.

Note that project proposal is still being developed, and we will have the opportunity to shape the final objectives.

Outline – Draft



Description of Work:

Participating member countries will invite industry partners to participate in the Global Knowledge Exchange, whereby participants would engage with Mission members and partners to advance the objectives.

Participants will receive no additional funding, but will benefit from the learnings of global counterparts, gain international exposure and recognition, and enhance their ESG profile through multilateral collaboration to advance action on climate change.

Rationale:

To achieve global climate goals, **innovation cycles for pre-commercial clean energy technologies must be quicker than has been achieved historically**: from first prototype to market needs to be 20% faster on average than the quickest energy tech developments of the past, and around 40% faster than was the case for solar Photovoltaic.

An acceleration of the magnitude required is ambitious but possible, requiring technologies that are not yet available on the market to be demonstrated quickly at scale in multiple configurations and in various regional contexts. This highlights the critical need for international collaboration and underscores that sharing of knowledge and lessons learned from demonstration projects must be expanded.

Timeline



Early planning (now – Spring 2023)

1. Socialize proposal with Mission co-leads and members (February 8)
2. Recruit members, clarify roles with NZI collaborators (February – March)
3. Clarify parameters of the initiative (April – May)

Project Launch and Implementation

1. Recruit Industry Participants (summer / fall 2023)

- Potential activities include hosting webinars to explain the project, its objectives and commitment required

2. Introduction to the Global Knowledge Exchange [Webinar] (fall 2023)

- What we aim to do and why
- Presentation on the value of greater knowledge sharing, challenging status quo
- Assess level of knowledge and comfort with IP, open science and data principles

3. Active workshops (winter 2023/24)

- Identify and prioritize key knowledge and information needs to accelerate the demonstration and deployment of industrial decarbonization and clean hydrogen technologies.
- Agree on the forms of knowledge, information, and data that can be shared for mutual benefit

Ongoing Knowledge Exchange (2024 – 2025)

- Participate in knowledge exchange activities with Mission Members and global industry counterparts.



Opportunities for Clean Hydrogen Mission:

- Achieve MI objectives for 2023–24 of increasing collaboration and synergies between Missions and increasing private sector engagement.
- Supports all three pillars in the Action Plan, and in particular, Pillar 1.
- Contribute to shaping the Global Knowledge Exchange project.
 - Opportunity to focus on expanding industrial applications for clean hydrogen in steel, chemicals, cement, energy sectors, for example.
- Profile clean hydrogen's role in industrial decarbonisation.
- Profile and increase access to knowledge and promotion for companies, researchers, industry in your country. By participating in the project, you can also ensure the needs and concerns of your industrial partners are being addressed.



Next Steps

Put your email in the chat or send it to kate.powe@nrcan-rncan.gc.ca to be informed about opportunities to:

- Provide input and feedback to the draft project proposal (shape it from CHM and country perspective).
Note: your industry and academic partners can provide comments as well.
- Participate in the first planning meeting (spring).
- Recruit industry participants (summer/fall 2023).