

# Mission Innovation (MI)

- Mission Innovation is a global initiative to catalyse action and investment in research, development and demonstration to make clean energy affordable, attractive and accessible to all
- MI consists of 23 countries and the European Commission
- **MI goal is to accelerate progress towards the Paris Agreement goals and pathways to net zero**
- There are 7 Missions: Zero-emission shipping, Clean Hydrogen, Green powered future, Carbon dioxide removal, Urban transitions, Net-zero industries, Integrated biorefineries



# Clean Hydrogen Mission (CHM)

- Clean Hydrogen Mission was launched in June 2021
- **CHM goal:** increase the cost-competitiveness of clean hydrogen by reducing end-to-end costs (goal is currently being redefined)
- **5 Co-leads:** Australia, Chile, European Union, United Kingdom, United States
- **MI CHM members (15):** Austria, Canada, China, Finland, Germany, India, Italy, Japan, Republic of Korea, Morocco, Norway, Netherlands, Saudi Arabia, Spain, United Arab Emirates
- **Partnerships with international organisations** such as CEM H<sub>2</sub>, IPHE, IEA Hydrogen's TCP, UNIDO, CHP, ...



# USP and missions/priorities

- **USP – CHM global coverage:** CHM brings together several members (countries) eager to discuss and mobilise joint efforts to build a global hydrogen economy
- **Three main missions:**
  1. Stimulating Research, Development and Innovation
  2. Integration of Production, Storage, Distribution and End-Use Applications in Hydrogen Valleys/Hubs
  3. Preparing the Ground for the Scale-Up of the Hydrogen Economy



# Strategic collaborations with other H<sub>2</sub> organisations

- **MoU with IPHE – main objectives:** accelerate the rollout of the “hydrogen valleys” by more rapid endorsement & uptake of new hydrogen codes & standards, and adoption of policies and funding programs
- **Joint declaration with UNIDO:** encourage exchanges and dialogues between hydrogen pioneer countries and developing countries, share knowledge on diverse financing mechanisms and internationally funded technical assistance initiatives
- **MoU with Clean Hydrogen Partnership:** foster open science in the field of clean hydrogen technologies, promote international R&I collaborations between EU stakeholders and legal entities established in MI countries



# Increased knowledge exchanges through workshops, working groups, trainings

- **Working groups:** Offroad applications WG led by US and Hydrogen production WG led by UK
- **Workshops** on several topics related to clean hydrogen:
  - Saudi-Arabia: “Building Blocks of Saudi Arabia’s Clean Hydrogen Ecosystem”
  - Japan: “Policy and Technology on Hydrogen Carriers” and “ Hydrogen Production Innovation – Policy and Technologies”
  - US: “Clean Hydrogen for Clean Steel”
- **Collaboration between CHM and OLADE** (Latin American Energy Organization) in the form of a training aiming to develop public policies for clean hydrogen in LAC
- **Joint events with other Missions:** webinars with Mission Urban Transitions and Mission Net-Zero Industries over October–December 2024



# Promotion of H<sub>2</sub> Valleys/hubs, especially in developing countries



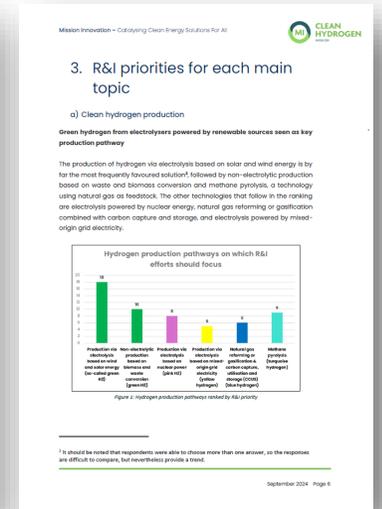
- **A short brochure** showcasing examples of 8 Hydrogen Valleys from different world regions was published in September 2024
- **Short video** to learn more about the concept of Hydrogen Valleys was released at MI-9 in Brazil
- **Ongoing collaboration with Clean Hydrogen Partnership** to promote the MI Hydrogen Valleys platform (<https://h2v.eu/>) and increase number and geographical coverage of H<sub>2</sub> Valleys/Hubs worldwide

-  • North America, USA – Port of Los Angeles – Shore to Store demonstration project
-  • North America, Canada – Alberta Industrial Heartland (AIH)
-  • Latin America, Chile – Volta project: Green Ammonia and Hydrogen Plant (part of Antofagasta Hydrogen Valley)
-  • South Pacific, Australia – Central Queensland Hydrogen Hub (CQ-H2)
-  • East Asia, Japan – Fukushima Hydrogen Energy Research Field (FH2R)
-  • Middle East, Saudi Arabia – NEOM Green Hydrogen Company (NGHC)
-  • Europe, Spain – Basque Hydrogen Corridor (BH2C)
-  • Europe, United Kingdom – BIG HIT



# Advancing global international R&I

- **R&I priorities survey conducted in summer 2024:** 21 members participated in this survey and results will help direct investment to key technologies and initiate new cooperation programs between countries
- **CHM coordinates priority action “Research and Development”** under the Hydrogen Breakthrough. Main priorities for 2025: focus on priority applications (shipping, aviation), extend the reach of demonstrations to involve developing countries and support Hydrogen Valley promoters to reach FID



# Thank you for your attention!



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