

CEM's HYDROGEN INITIATIVE (H2I)

OBJECTIVE

To raise international ambition and advance commercial scale low-carbon hydrogen deployment in the long-term globally, across all sectors .

RATIONALE

There is a need for long term plans, vision and goals in giving direction to hydrogen uptake and to enable effective planning and development of consistent policies.

AMBITION/TARGET

To build strategic partnerships to develop and facilitate global actions on clean hydrogen and fuel cell deployment across regional, national, and municipal economies.

ACTORS

Co-Leads:



Participants:

- Around 25 governments are part of the network.
- Hydrogen Council and individual companies part of the discussion
- Around 60 port association and authorities
- Coordination with other international H2 initiatives a priority.

ACTIONS

- Global aspirational goals
- Global Ports Hydrogen Coalition
- H2 Twin cities programme
- International hydrogen trade and supply-chains
- North-Western Europe hydrogen market coordination
- IEA Global Hydrogen Review tracking policies and markets

- Overpopulation of initiatives requires coordination -
- CEM H2I has been engaging in regular coordination meetings since its inception with:
 - Advanced Fuel Cells TCP
 - Breakthrough Agenda
 - G7 Hydrogen Action Pact
 - Hydrogen Council
 - Hydrogen TCP
 - IRENA
 - IPHE
 - MI – Clean Hydrogen Mission
 - United Nations Development Programme
 - UNIDO
 - WEF – Accelerating Clean Hydrogen Initiative
- **Priority:** to avoid duplication of activities. Examples:
 - Work on standards and certification directed to IPHE: workshop with Oman, report about H2 production emissions
 - Request from India about hydrogen hubs, directed to MI
 - Working on a joint questionnaire for country reporting with IPHE (and possibly MI)
 - Building relationships with UNIDO for the Global Hydrogen Trade
 - Close dialogue with the CEM Marine Hubs initiative to ensure complementarity
 - Proposal: joint webinars on national updates with MI, IPHE and Hydrogen TCP

- **WG1: ASPIRATIONAL GOALS** (Lead: EC)
 - Development of a government questionnaire
 - Surveys in 2021 (21 countries) and 2022 (26 countries)
 - [Briefing](#) summarising results from 2021
 - Inputs to the GHR21 and GHR22
- **WG2: PORTS COALITION** (Lead: EC)
 - Delivery of Call for Action at GCEAF
 - Input to IAHP's World Sustainable Database
 - Establishing a new Collaborative Framework in March 2023 (secretariat transferred to Ports)
 - Networking at various events
- **WG3: NW EUROPE** (Lead: Netherlands)
 - Report about hydrogen in NW Europe (2021)
 - Industrial workshop about hydrogen in NW Europe and project development
 - NW Europe Hydrogen Monitor (2022)

- **WG4: GLOBAL HYDROGEN TRADE FORUM** (Lead: Netherlands)
 - Special focus about hydrogen trade in the Global Hydrogen Review 2021
 - Workshop about hydrogen trade models
- **WG5: H2 TWIN CITIES** (Lead: US)
 - Announcement in 2021, first city pairings in 2022 (US-Japan; and Japan-UK teams)
 - 2023 competition rules finalized, launch in July 2023 with winner announcement planned for COP28
- **COORDINATOR** (IEA)
 - Global Hydrogen Review 2021
 - Global Hydrogen Review 2022

- **COORDINATOR** (IEA)
 - Launched the Global Hydrogen Review 2023 at HEM2023 (Tokyo)
- **WG1: ASPIRATIONAL GOALS** (Lead: EC)
 - Submission of joint IPHE-H2I-IEA questionnaire to governments
 - Data received from 26 countries and the EU (including 11 non-IPHE members)
 - Inputs used in the GHR23
 - Upcoming: decision on the information to be uploaded in IPHE website
- **WG2: PORTS COALITION** (Lead: EC)
 - No updates since April
- **WG3: NW EUROPE** (Lead: Netherlands)
 - Matchmaking event in the World Hydrogen Summit between potential off-takers from NW Europe and potential international producers
 - Started the work for the second version of the NW Europe Monitor report

- **WG4: INTERNATIONAL HYDROGEN TRADE FORUM** (Lead: Netherlands)
 - Launch of the Forum at CEM14 in Goa (India)
 - Appointed UNIDO as the coordinator of the Forum
 - Definition of the work plan until the end of 2023, including a ministerial-CEO roundtable COP28

- **WG5: H2 TWIN CITIES** (Lead: US)
 - Launch of 2023 round in July (parallel with CEM14 meeting)
 - Focus on Mentor-Mentee partnerships to encourage participation of developing countries
 - Deadline to apply is Oct 19