Hydrogen already has a long history

TNO, 1975, Hydrogen from nuclear, solar and wind energy
What is the Hydrogen TCP?

• The Hydrogen Technology Collaboration Programme was established in 1977 to pursue international collaborative research in the hydrogen field under the auspices of the International Energy Agency.

• It carries out R,D&D activities through projects focused on specific topics called Tasks.

• Its Executive Committee is formed by representatives and alternates of its 24 Member Countries, the European Commission, UNIDO and 7 Sponsors.
In a nutshell

**Members**
- 24 Member Countries
- 7 Sponsors
  - European Commission + UNIDO

**Tasks**
- 3 Ongoing
- 39 Finished
- ≥ 8 in definition

**Experts involved**
- In collaborative research on hydrogen and hydrogen technologies

**Experts involved**
- 250+

**Member Countries**

**Sponsors**
- European Commission
- UNIDO

**Experts involved**
- 250+
Strategic Plan 2020 - 2025

A future where **hydrogen plays a key, cross-cutting role** for the world economy in a sustainable, global, integrated & flexible energy system.

Facilitate, coordinate and maintain innovative RD&D activities as a **hub for international cooperation and Knowledge exchange.**

Accelerate the implementation and widespread **efficient use of hydrogen** to minimize global warming, optimize environmental protection, improve energy security and contribute to sustainable economic development - and preserving the hydrogen TCP as a **leading global source for hydrogen expertise.**
Estimates global hydrogen use 2050

Source: IRENA (Jan. 2022), Geopolitics of the Energy Transformation: The Hydrogen Factor
Tasks
Main Hydrogen TCP activities
What is a Task?

• Collaborative research project among parties related to hydrogen

• Usually 3-year duration

• Led by one or more Task Manager(s)

• Each one has a different scope, framework and is structured in Subtasks

• Any member can propose a Task

• Participation in is indicated by submittal of a Letter of Participation

• Task’s Work Plan includes scope, goals, milestones, participation requirements, structure, deliverables...

• When approved by the Executive Committee, the Task is assigned the next consecutive number and becomes part of the Hydrogen Implementing Agreement (HIA) as an Annex
Types of Tasks

Closed

Tasks that already finished. List and related reports can be found here.

Open

Tasks that are currently active. Information about them and related documents can be found here.

In definition

Potential Tasks in the process of defining scope and terms of their work. Information and requirements to join can be found here.
Task portfolio status (May 2022)

- Preliminary Idea
  - Project Definition Phase
  - Kick-off
  - Active
  - Closing Steps
  - End

- Task 42 – Underground H2 Storage
  - Renewable Hydrogen
  - Off-shore Hydrogen Production
  - Hydrogen from Nuclear Energy
  - Safety and RCS of Large-Scale Hydrogen Energy Applications
  - Hydrogen Export Value Chains

- Task 40 – Energy Storage and Conversion
  - Task 41 – Analysis and Modelling of Hydrogen Technologies

- Task 37 – Hydrogen Safety
- Task 38 – PtH & HtX
- Task 39 – Hydrogen in the Maritime

- Marine Applications + Ports

- Document review for other organizations (IEA, other TCPs, international groups...)
- Planned strategic activities: TRL Assessment, Hydrogen TCP Awards
Benefits of joining a Task?

✓ Join a network of international experts

✓ Contribute to defining the state-of-the-art for hydrogen technologies

✓ Participate on cutting-edge hydrogen R,D&D

✓ Visit facilities and laboratories from other Task participants

✓ Set the ground for joint demonstration projects

✓ ...

Hydrogen TCP
Collaboration

Joint activities with entities within the IEA Network and external
Collaboration within the IEA Network
Collaboration with other organizations
Dissemination and outreach

Activities to increase awareness and understanding and inform the interested public
Activities

• **Meetings** (at ExCo and Task level)

• Dissemination through website and social media
  
  • **Blog**
  
  • **Twitter**
  
  • **LinkedIn**

• **Events** (organization + participation)
  
  • Workshops, conferences, plenary sessions, and webinars

• Planned activity: Hydrogen TCP Awards
Hydrogen TCP website
Hydrogen TCP website

Tasks in Definition information

Live calendar with relevant events

www.ieahydrogen.org

Relevant hydrogen-related documents repository

and much more!
Other dissemination
Thank You!

For more information, contact the Technical Secretariat:

Marina Holgado, ARIEMA
Marina.Holgado@ieahydrogen.org