



**Hydrogen Europe
Research**

Fuel Cells & Hydrogen Research in Europe

Hydrogen as an enabler for a low-carbon society

Our vision and mission

Hydrogen Europe Research aims to contribute to the achievement of carbon neutrality by strengthening the European hydrogen industry and ensuring high-level research in Europe. We actively support Research Institutes and Universities involved in the development of a new industrial ecosystem based on hydrogen.

Our mission is based on **4 pillars**:

RESEARCH

Supporting the excellence of European research on hydrogen and fuel cells – low Technology Readiness Level (TRL) research is still needed to develop the next generations of materials, components and products.

INFRASTRUCTURES

Enabling Research & Technology Infrastructures to scale up and speed up innovation – development of RIs and TIs is essential to bringing new technologies into the market.

SUSTAINABLE DEVELOPMENT

Ensuring sustainable development standards for a clean hydrogen ecosystem – evaluation of the carbon and environmental footprint related to the production, distribution, and usage of hydrogen is fundamental.

EDUCATION

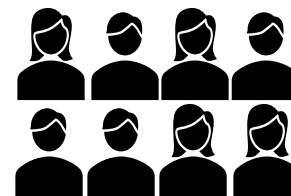
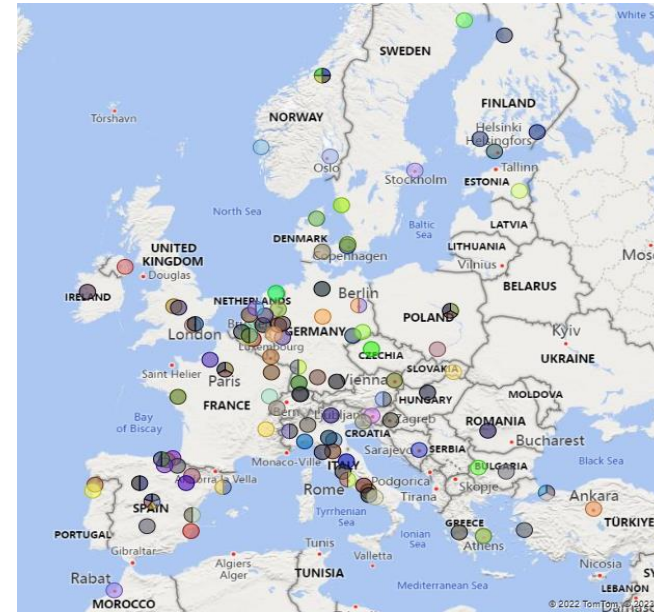
Developing education and trainings to provide a skilled workforce for the European hydrogen economy – an educational framework should be a priority of European and national policies.

Hydrogen Europe Research at a glance

We represent the European scientific community active on hydrogen with **131 members** in **29 countries**.



62 Higher education establishments
69 Research organisations



500+ scientists
involved in defining priorities
for the FCH sector

Our activities



Participation in the Clean Hydrogen Partnership



Intelligence for our members



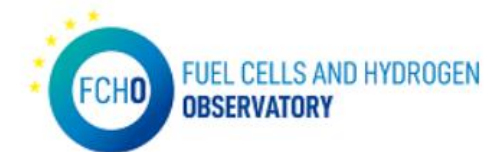
Policy recommendations and position papers



Communication and networking for our members



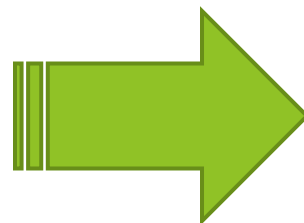
Education and training via the Skills Working Group



Participation in Horizon Europe projects
Fuel Cells and Hydrogen Observatory & GreenSkills4H2

Clean Hydrogen Partnership

In collaboration with the public and private members of the Clean Hydrogen Partnership, Hydrogen Europe Research participates to the **identification of annual and multi-annual research & innovation priorities** and the **elaboration of research topics** included in yearly Annual Work Plans.



- **EC representation** – DG R&I, DG ENER and DG MOVE
- Total EU financial contribution to the Clean Hydrogen JU: 1 Billion €
- Private partners shall **at least match this contribution** through In-Kind contributions
- Administrative costs are shared between the public and private partners

Set of 20 Roadmaps to address our objectives

Technical Committee 5 – Cross-Cutting Research Activities

S10 Cross-Cutting
RM18.1 - LCA, Sustainability & Recycling, RM18.2 RCS & Safety, RM18.3: Education & Awareness

Comms
Knowledge
Safety
Int'l coop.

PILLAR H2 PRODUCTION

SO1 Produce Clean H2
RM01 - Electrolysis
RM02 - Other modes of production

SO2 Integrate renewables
RM03 - Role of electrolysis in the energy system

SO7 Decarbonise Industry
RM17 - H2 in industry

Technical Committee 1 – Hydrogen Production

PILLAR H2 DISTRIBUTION

SO3 Deliver Clean H2 at low cost
RM04 - Large scale storage
RM05 - Pipeline transport (grid)
RM06 - Liquid carriers
RM07 - Non-pipeline transport
RM08 - Key technos for distribution

SO4 Develop H2 infrastructure
RM09 - HRS for multiple applications

Technical Committee 2 – Hydrogen storage, transport & distribution

PILLAR H2 END USES
Technical Committee 3 - Transport

SO5 Competitive H2 vehicles
RM10 - Building blocks
RM11 - Road Heavy-Duty
RM12 - Maritime (inc. ports)
RM13 - Aviation (inc. airports)
RM14 - Rail

SO6 H2 for Heat & Power
RM15 - Stationery H2 fuel cells
RM16 - H2 Turbines & burners

SO7 Decarbonise Industry
RM17 - H2 in industry

Technical Committee 4 – Heat & Power

SO9 Supply Chain
Manufacturing & scale-up

Technical Committee 6
Supply Chain

S08 Hydrogen Valleys
Integrated H2 ecosystems combining multiple applications (ports, airports, industrial hubs, cities, etc.)

Technical Committee 7 – Hydrogen Valleys

Policy Working Group

A Policy Working Group is held monthly in Hydrogen Europe Research.

Activities
organised:

Discussion and identification of potential issues for HER's research community stemming from existing or upcoming European policies



Defending the view of RTOs and universities by **drafting position papers and taking action to voice our opinion.**



Skills activities

HER has set up **together with Hydrogen Europe a joint [Working Group on Skills](#)** to reflect on the topic of skills, trainings, and education in the field of hydrogen and fuel cells.

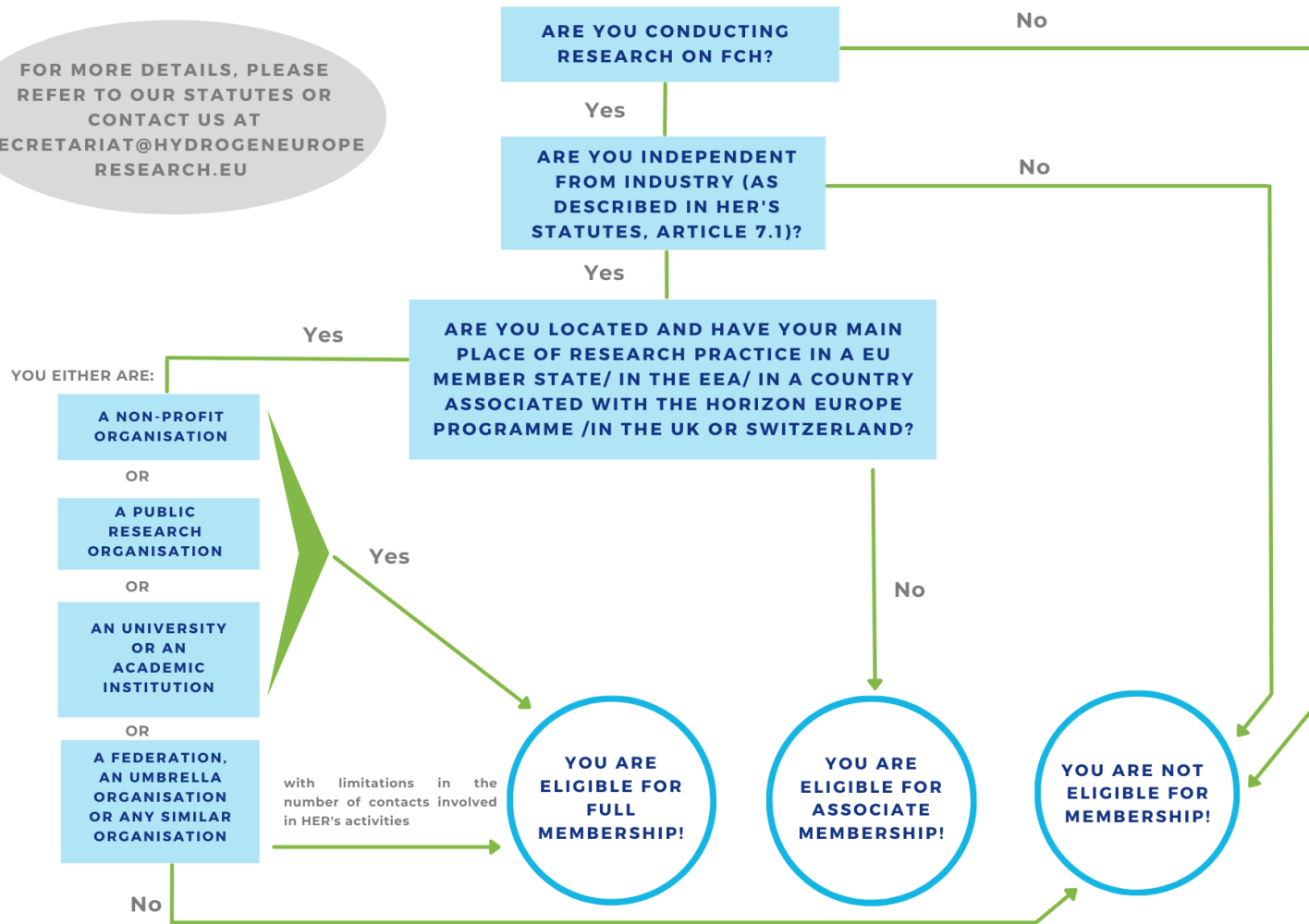
The main topics to be dealt with as a starting point will be (non-exhaustive list):

- Understanding the trends and needs for hydrogen skills
- Presentation of projects and best practices on skills, trainings and education
- Identification of relevant funding opportunities
- Matchmaking to build consortia / find new contributors for projects
- Monitoring of EU policies on employment and skills in relation with hydrogen and green skills

HER is involved in projects related to skills and trainings such as the [FCH Observatory](#) and the recently awarded project [GreenSkills4H2](#).

Become a Hydrogen Europe Research member!

FOR MORE DETAILS, PLEASE REFER TO OUR STATUTES OR CONTACT US AT SECRETARIAT@HYDROGENEUROPE RESEARCH.EU



Full member: 3,500€/year

Associate member: 1,000€/year



Hydrogen Europe
Research



Thank you
for your
support!

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