



**Making an impact  
on the clean  
energy transition**

**MARKET  
UPTAKE**

# PROMOTING INTERNATIONAL COOPERATION



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## Sharing knowledge, globally

The FCH JU works closely with other stakeholders, research programmes and organisations worldwide involved in the exploration, development, deployment and regulation of fuel cell hydrogen technology. These players include the US Department of Energy's Hydrogen and Fuel Cells Program, Japan's New Energy and Industrial Technology Development Organization, the United Nations Industrial Development Organization and the International Energy Agency, etc. Many FCH JU-funded projects focusing on areas such as safety or pre-normative research include national partners or international contributors. For instance, the HySEA project included two Chinese academic partners, while the DEMCOPEM-2MW project is sharing European technology and expertise to help to green Chinese industry. The HyCoRA and H2Sense initiatives involved collaboration with laboratories in the US, while HyResponse worked with firefighters from different non-EU countries to establish the world's first comprehensive training programme for first responders.

## Collaborative priorities

Besides supporting international cooperation through projects and programmes, the FCH JU is identifying priority areas, at policy and technology level, where coordinated and collaborative international activities are of interest. In Europe, it coordinates work with the European Commission's science research service, the Joint Research Centre, and national bodies such as Germany's National Organisation Hydrogen and Fuel Cell Technology. After Japan, Germany has the highest number of hydrogen refuelling stations worldwide and is the most advanced European market for fuel cell micro-cogeneration – achievements largely due to the involvement of national partners in FCH JU-funded projects.

**The transition to fuel cell hydrogen technology as a clean, low-emission energy solution necessitates a global effort. To that end, the FCH JU is establishing and expanding cooperation with international partners.**



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KEY ACHIEVEMENTS

**127 PROJECTS**  
with Non-EU participants

**73.5 MIL EUR**  
Funding to Non-EU participants

**95 NON-EU PARTICIPANTS**  
In FCH JU projects

IMPACT

**COOPERATION WITH THE US FOR THE IDENTIFICATION OF TOPICS FOR INTERNATIONAL COLLABORATION**

**CLOSE COLLABORATION WITH INTERNATIONAL ORGANIZATIONS SUCH AS THE IPHE, IEA H2, UN UNIDO, ETC.**

**PARTICIPATION IN GLOBAL INITIATIVES LIKE THE MISSION INNOVATION INITIATIVE**

A WORLDWIDE EFFORT

Establishing and maintaining links with major research programmes and stakeholders globally is an important part of the FCH JU's work to develop and deploy commercially viable fuel cell hydrogen energy solutions.

WIDENING THE HORIZONS

By building links and sharing knowledge with international partners and programmes, the FCH JU is broadening research into FCH technologies worldwide while supporting science and technology cooperation internationally in line with the Europe 2020 strategy for smart, sustainable and inclusive growth, and the Horizon 2020 programme. **The goal?** To drive innovation and support uptake of FCH technology globally. **Key results?** Ongoing collaborative initiatives with partners and organisations around the world.



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[www.fch.europa.eu/page/fch-ju-projects](http://www.fch.europa.eu/page/fch-ju-projects)  
<https://demcopem-2mw.eu/>  
<http://www.hyresponse.eu/>  
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**FUEL CELLS AND HYDROGEN**  
JOINT UNDERTAKING

A partnership dedicated to clean energy and transport in Europe

