



Hydrogen Europe Research

Technology Infrastructures for the Green Deal: the hydrogen strategy

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President

Europe's Green and Digital Transition:

The Role of Technology Infrastructures in the new Pact for research and innovation

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Increasing expectations for clean hydrogen

European Hydrogen strategy (2020)

Phase 1: 2020-2024

- 6 GW of electrolyzers
- 1 million tons renewable H₂
- Replace existing H₂

Phase 2: 2025-2030

- ~~40 GW of electrolyzers~~
- ~~10 million tons renewable H₂~~
- New applications in steel & transport

Phase 3: 2030-2050

- H2 technologies matured and deployed at large scale in hard to abate sectors
- Expansion of hydrogen-derived synthetic fuels

REPowerEU (2022)



Hydrogen Accelerator

- Double the hydrogen production by 2030 (20 mt/y)
- Electrolyzer partnership (17.5 GW/y by 2025)
- Increase the number of Hydrogen valleys
- ...

HER membership map

Count

14

1

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500+ scientists
involved in defining priorities
for the FCH sector

**Members activities
covering the whole value chain
from materials to systems**

[illegible]

Hydrogen Europe Research

aiming at proposing all relevant research & technology infrastructures

- Launch of a **Research and Technology Infrastructure Mapping** of HER members
- Collaboration with
 - the European Commission,
 - the European Strategy Forum on Research Infrastructures (ESFRI) and
 - Hydrogen Europe industry

in order to bridge any identified gaps geographically and/or along the hydrogen value chain





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