

# H2 FORUM 2022 – OPPORTUNITY FOR TRANSFORMATION

*European dimension of H2 development*





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Aragon, Spain

# Hydrogen Europe - our vision and mission

**Our Vision:** Hydrogen Europe is **propelling global carbon neutrality** by accelerating the European hydrogen industry.

**Our Mission:**

- ❖ To **represent European based companies and stakeholders** that are committed to moving towards a (circular) carbon neutral economy.
- ❖ To **be the spearhead of the hydrogen industry** towards policy and decision makers for hydrogen technology and applications.
- ❖ To support and facilitate our members in their **transition towards (circular) carbon neutral economy** while creating and maintaining sustainable jobs.
- ❖ To drive Markets to Hydrogen-based solutions and remain the **key industrial partner of the Clean Hydrogen Joint Undertaking.**



# Hydrogen Europe in Numbers

HE encompass the entire value chain of the hydrogen ecosystem: from production, distribution to end uses, including Industry, EU regions & H2 National Associations.

# 410+

## Members



# 110k+

## Followers on Social Media

Follow us on:



# 40+

## Employees



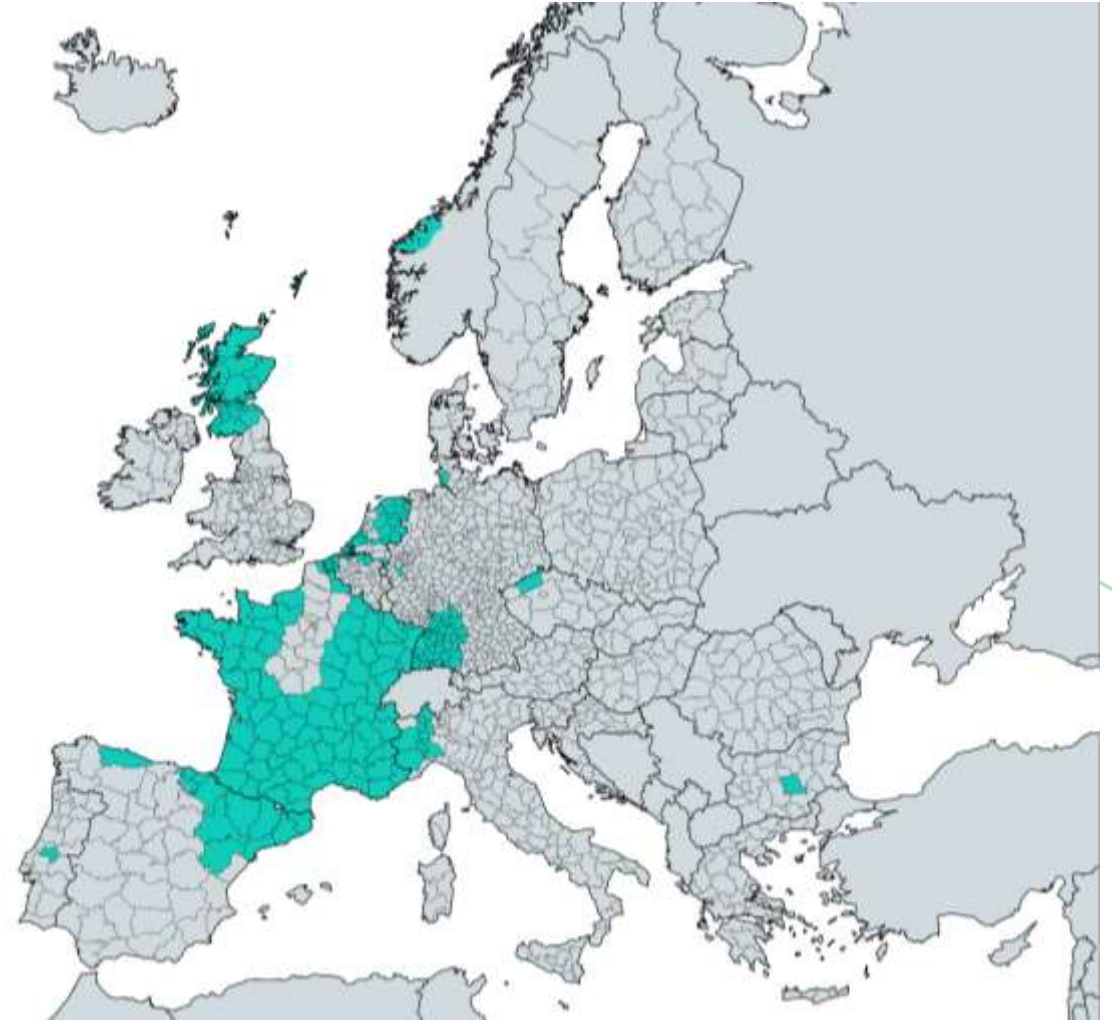


# Hydrogen Europe Regional Pillar

- Regional Pillar launched in **January 2022**
- **26 regional members**

## Objective of the Pillar

- Promoting **regional and local support and investment** in the H2 value-chain
- Facilitating **set-up of public funded projects**
- **Match making sessions** with industry and research
- Promoting interaction between industry, regional and local authorities to **improve knowledge sharing**



## Clean Hydrogen Partnership & Hydrogen Europe

We are the industrial partner of the Clean Hydrogen Partnership (former Fuel Cells & Hydrogen Joint Undertaking) with the European Commission supporting research, technological development and demonstration activities in the field of fuel cell and hydrogen energy technologies in Europe.

The partnership preserves and reinforces the forefront position of the European players on a global scale. Hydrogen Europe together with Hydrogen Europe Research acts as a coordinating body of the private partners.

[www.clean-hydrogen.europa.eu](http://www.clean-hydrogen.europa.eu)



Hydrogen Europe



Hydrogen Europe Research



Co-funded by the European Union



## Hydrogen valleys

*Hydrogen valleys (..) are a perfect example of the hydrogen economy we want to build.*

**Keynote by President von der Leyen at the European Hydrogen Week 2021**

- ❖ Cover a **defined geographical area** in which hydrogen serves **more than one end user** or application in mobility, industry, and energy.
- ❖ Comprises a **substantial financial investment** and covers most of the hydrogen value chain.
- ❖ **Clean Hydrogen Partnership supports investment in H2 valley** – 2 H2 valleys to be supported in 2022, with 4 planned in 2023.
- ❖ Commission announced a **top up to CHP of 200 MEUR** to double the number of H2 Valleys.

# 20 years of H2 in Aragon

*Region at the forefront of H2 development in Europe*

- ❖ 1986: First Wind Farm in Spain installed near Zaragoza
- ❖ 2003: Great energy change approaching. Aragon regions decides to support new hydrogen technologies
- ❖ 2003: Workshop organized jointly Government of Aragon, R&D and industrial and private sectors
- ❖ Result of the workshop:
  - ❖ **A Strategy to develop Hydrogen Technologies in Aragon**
  - ❖ **Foundation for the Development of New Hydrogen Technologies in Aragon**





# Aragon Hydrogen Master Plan 2016 - 2020

## Global figures of results for the Hydrogen Master Plan in Aragon (2016 - 2020)



**76 entities and 1 natural person** are part of FHa's Board of Trustees



**77 projects** executed or in progress



≈ **€35 296 000**  
Global investment  
in Aragon



≈ **€25 941 000**  
Global returns from  
open public calls



HYDROGEN MASTER PLAN IN ARAGON  
[2016 - 2020]



# Aragon Hydrogen Foundation



FUNDACIÓN PARA EL  
DESARROLLO DE LAS NUEVAS  
TECNOLOGÍAS DEL HIDRÓGENO  
EN ARAGÓN



- ❖ Launched in 2004.
- ❖ The Foundation for the Development of New Hydrogen Technologies in Aragon is a private, not-for-profit entity, **created to promote the use of hydrogen as an energy vector.**
- ❖ Aims to foment research, technological development, cogeneration and industrial adaptation, **contributing to industrial modernization and improved competitiveness.**
- ❖ It is market oriented.



# Aragon Hydrogen Foundation - Board



# Aragon Hydrogen Valley - GetHyGA

“PavinG an Energy and Technology way on HYdrogen along Aragon”



**76 Projects**  
**82 Supporters/Promoters**

<b>Nº projects</b>	<b>49 Projects</b>	<b>9 Projects</b>	<b>9 Projects</b>	<b>4 Projects</b>	<b>4 Projects</b>
<b>Budget</b>	<b>2 205 528 371 €</b>	<b>39 163 877 €</b>	<b>15 266 609 €</b>	<b>23 302 750 €</b>	<b>30 827 626 €</b>

TOTAL 1	75	2 334 089 233 €
TOTAL 2	1	750 000 000 €
<b>TOTAL GENERAL</b>	<b>76</b>	<b>3 084 889 233 €</b>

# Ebro Hydrogen Corridor – Regional Collaboration

Cluster for the sustainable development and innovation based on the Hydrogen Economy



*The Ebro Hydrogen Corridor is the most suitable area to lead the deployment of hydrogen in Southern Europe*

## COMMON OBJECTIVE

Sustainable development of the territories

## COMMON VISION

Willingness to collaborate Interregional and Multisectoral to undertake the coordinated development of renewable hydrogen with actions throughout the value chain

Supported by the **Synergies and Complementarities** of these Regional initiatives and the SHYNE Project.

- ✓ Renewable Resource Availability
- ✓ Industrial Capabilities
- ✓ Technological Capabilities

## COMMON GOAL

Lead the deployment of hydrogen in Southern Europe, achieve sustainable results that produce social, economic and environmental benefits, favoring the technological and industrial positioning of Spain and the European Union in this future sector.

# Thank You



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