

Spanish Hydrogen Association Green Hysland

“A vision of future development of hydrogen economies in European island regions”



28th November 2022

AeH₂
ASOCIACIÓN ESPAÑOLA
DEL HIDRÓGENO

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Opportunities and barriers

THE VOICE OF THE HYDROGEN SECTOR IN SPAIN

Since 2002



+370 members
+20 years supporting the sector
+15 years of international
collaboration

MISSION

Promote and encourage the development and growth of hydrogen technologies in Spain, with the aim of strengthening and enhancing the national industrial fabric.

VISION

Hydrogen is a key energy vector in the decarbonization of the Spanish economy to achieve climate neutrality in 2050. Hydrogen allows to reactivate, redefine and transform the national economy, through the creation of a technological and productive industrial fabric, and the generation of highly qualified employment.

Objectives



CLUSTER

To be the gathering place of the sector, bringing together companies, institutions, technology and research institutes and, universities with activity in hydrogen and fuel cells.



EDUCATION

Offering professional education through specific courses already consolidated with various universities and training centers.



R&D&i

To promote research and innovation in hydrogen and fuel cells, as well as the promotion of startups and technological knowledge.



LEGISLATION

Promoting laws and rules for the regulation of hydrogen as an energy vector.



DEVELOPMENT

To support the development, promoting the production, storage, and distribution applications of hydrogen, and its use in fuel cells.



DISSEMINATION

To make hydrogen acknowledged as an energy vector by our society.

Members AeH2



Promoters

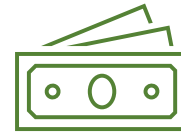


A fast transition to hydrogen

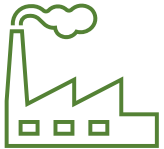
What is needed for a fast transition to hydrogen?



1. Research and development



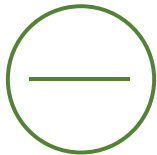
2. Government actions and public funds



3. The industrial poles promote the production and use of green hydrogen



4. Increase in demand of hydrogen



5. Eliminate unnecessary regulatory barriers



6. Social awareness

Hydrogen economies in European islands

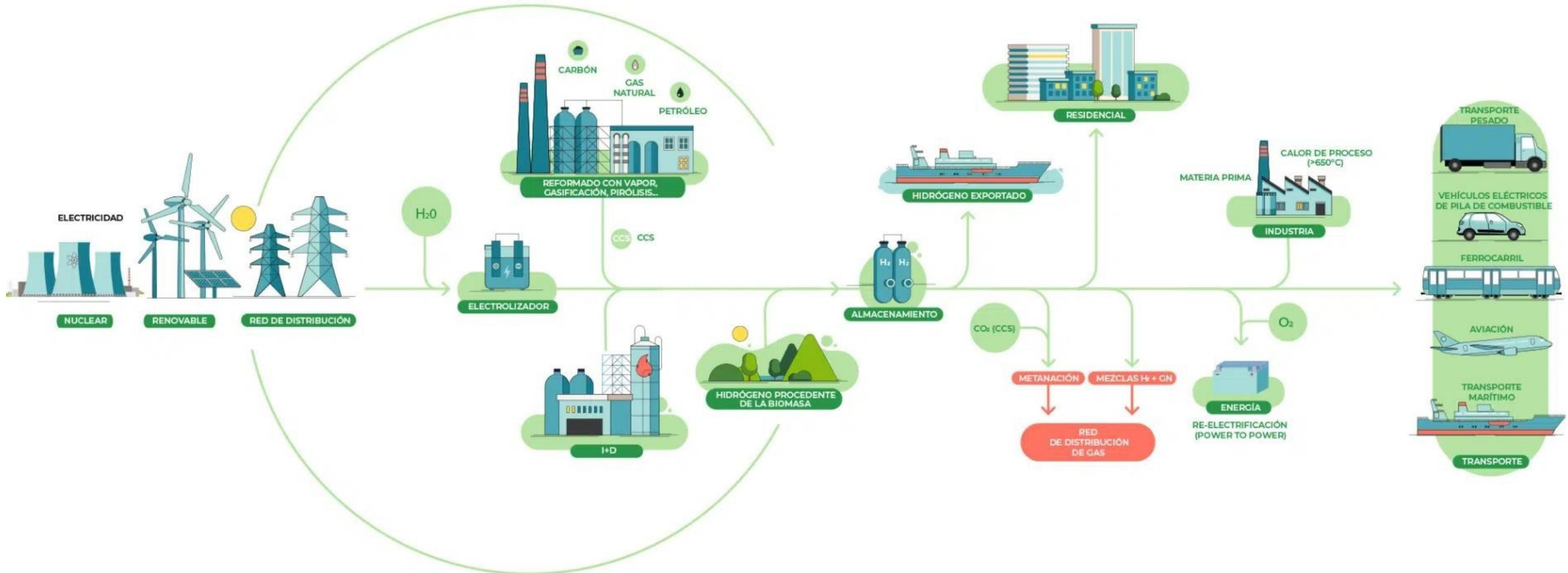
How might hydrogen economies evolve in European islands?

1. Creating a consolidated market for clean hydrogen
2. Cutting its production costs
3. Creating new infrastructure:
 - Transport
 - Storage
4. Bringing new employment and reskilling opportunities for islanders
5. Forecasting tools



Opportunities and barriers

Opportunities



Source: Asociación Española del Hidrógeno (AeH2)

Opportunities and barriers

Opportunities

A program has been promoted as a strategy for renewable energy (green hydrogen included) in the two archipelagos existing in Spain (Balearic and Canary islands).

Estrategia de Energía Sostenible en las Islas Canarias



PLAN DE INVERSIONES PARA LA TRANSICIÓN ENERGÉTICA

ILLES BALEARS



Opportunities and barriers

Opportunities

Replicate to other islands:

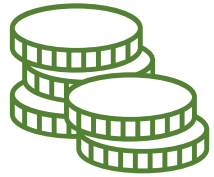
- Madeira, Portugal
- Tenerife, Spain
- Aran, Ireland
- Greek Islands
- Ameland, Netherlands
- Island of Chiloé, Chile
- Morocco



Drivers and barriers

Barriers

Many barriers can be detected on islands:



Cost



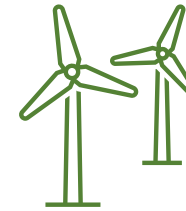
Government
regulations



Technology
mature



Efficiency



Sufficient
renewable
electricity



Standards and
certification

Spanish Hydrogen Association

**Thank you
for your attention**



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