

THE FAST TRACK TO THE HYDROGEN ECONOMY

# EUROPEAN HYDROGEN ENERGY CONFERENCE

**Plenary Session 3:  
Cross-sectoral Synergies:  
The role of hydrogen valleys  
The Andalusian Green  
Hydrogen Valley**

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## What could a Green Hydrogen Valley be?

A **Hydrogen Valley** is a geographical area where there is an original important hydrogen consumption, and green hydrogen is used to replace it in order to decarbonize the activity.

This **initial activity** will allow **economies of scale** (improving the economics behind the project), **attract investments** in all the value chain and favour the **development of new innovative applications**.

Experiences and knowledge gained will foster local growth and replicability.



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The Andalusian Green Hydrogen Valley will become real soon





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## The Andalusian Green Hydrogen Valley & linked projects at a glance

A Valley focused on the decarbonization of industry and heavy transport



### Palos de la Frontera

- 2G biofuels plant
- 1 GW of electrolysis capacity to:

Decarbonize industrial activity

Produce:  
• E-Ammonia  
• E-Methanol

### San Roque

- 1 GW of electrolysis capacity to:

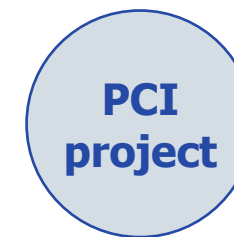
Decarbonize industrial activity

Produce:  
• E-Ammonia



## The Andalusian Green Hydrogen Valley: A Key project for maritime sector

Agreement with Port of Rotterdam to supply decarbonized fuels for bunkering or for cracking to supply H2 to Northern European customers

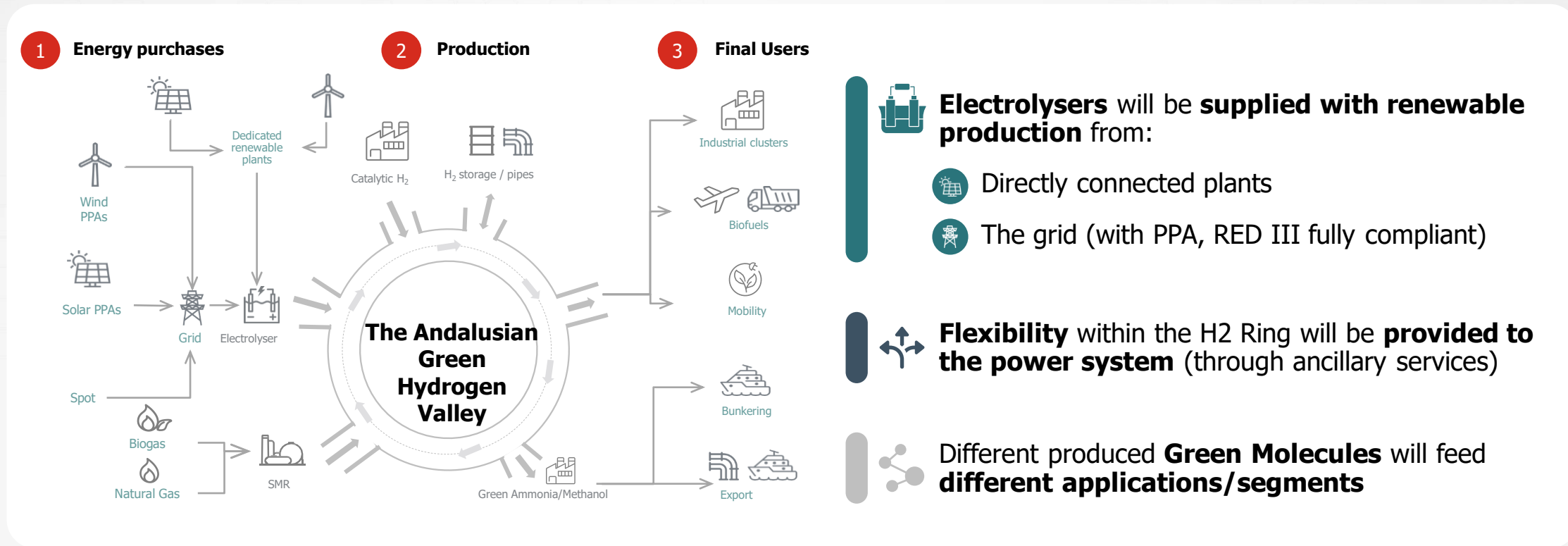


Via "Project of Common Interest" label: connection with other European Valleys creating cross-regional projects (helping to develop TEN-E and TEN-T corridors)



## The H2 Ring: Cornerstone in both locations

The H2 Ring makes the H2 production technically and economically feasible, overcoming the limitations of renewal intermittency and hourly balance.



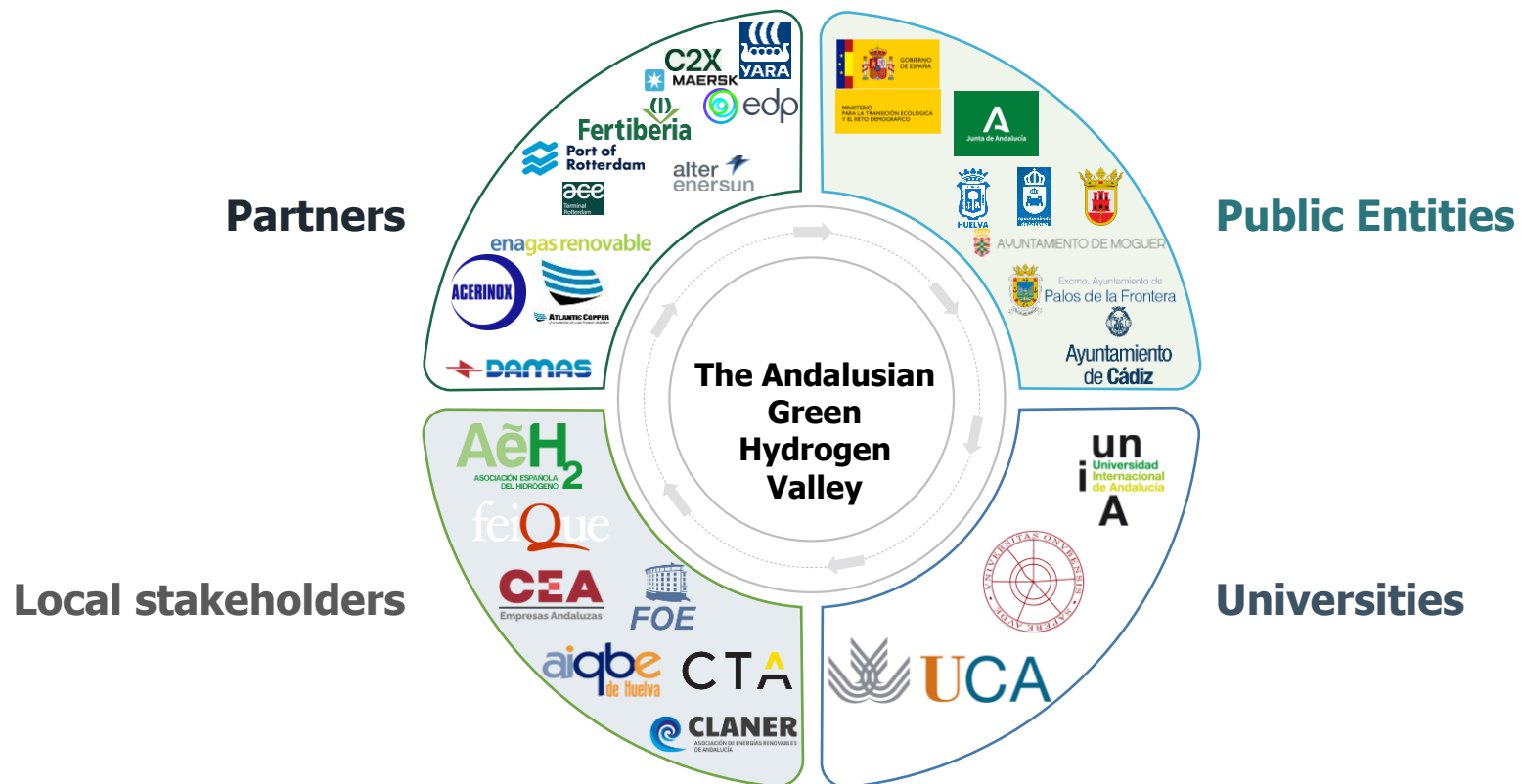


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## The Andalusian Green Hydrogen Valley Stakeholders: collaboration is crucial

Flagship project to deploy innovation and to attract a comprehensive range of new investors through all the value chain





## The Andalusian Green Hydrogen Valley & linked projects at a glance

A Valley focused on the decarbonization of the industry and the heavy transport

### Specific actions to retrain & reskill, train and incorporate new employees

*Programs Launched by CEPSA together with the Consejería de Educación of the Junta de Andalucía*

To train:

- 1.- FP Impulsa (DUAL, with specific training in renewables and hydrogen and internships at CEPSA's EP)
- 2.- Chairs in Seville, Cadiz, and Huelva (to develop specific skills required by CEPSA Projects)
- 3.- Collaboration agreement with the Universidad Internacional de Andalucía, UNIA (specific program on H2)

To incorporate:  
Challenging U

### Specific actions to disseminate the innovation & knowledge acquired

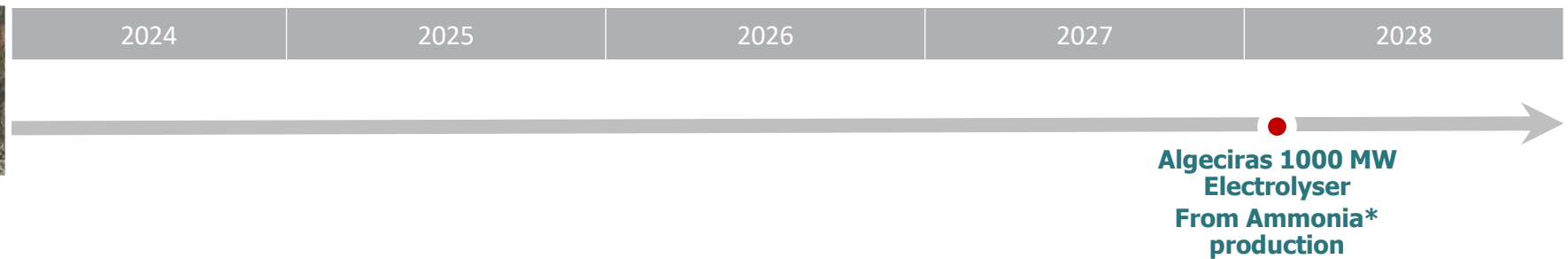
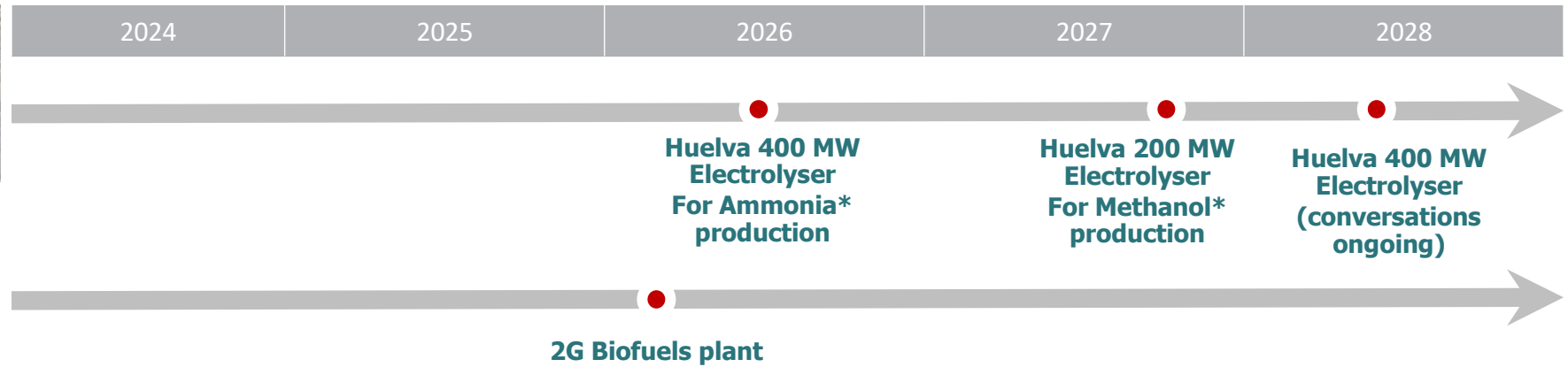
Specific platforms selected to share information:

- Participation in international, European and local events (EHEC24, COP, WEF, EU Hydrogen Week, etc.)
- Specific publications (Green Skills with ManPower, Energy Insights, etc.)
- Web and social media





## The Andalusian Green Hydrogen Valley timeline



\* Main product



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## The Andalusian Green Hydrogen Valley will become real soon

23<sup>rd</sup> Feb: Foundation stone of the biggest 2G biofuels plant in Southern Europe to be supplied from the Andalusian Green Hydrogen Valley





## Regulatory measures to foster the H2 development and optimize green H2 costs



Adequate electricity transmission tariffs



Simultaneous grid access for H2 power demand and linked renewable generation



Priority dispatch of renewable generation connected to H2 production



Use of decentralized batteries to supply H2 production



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## Specific funding solution for Hydrogen Valleys

Subsidies should be enough to cover up to 100% of the funding gap

### Received



“Pioneros” call

“Cadena de valor” call

### Applications to:



Auction  
8th Feb.

Call  
9th April.

### As PCI Project, applications to:



CEF Energy

CEF Transport

### New application to:



“Clúster/Valles”  
call

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