



European
Commission

Project of common interest:

9.1.3

Internal hydrogen infrastructure in Spain

Hydrogen interconnections in Western Europe

CATEGORY

Hydrogen and Electrolysers

CLUSTER

9.1: Corridor Portugal – Spain – France – Germany (hydrogen)

COUNTRIES CONCERNED

Spain(ES)

PROMOTERS

Enagás Infraestructuras de Hidrógeno (ES)

PCI WEBSITE(S)

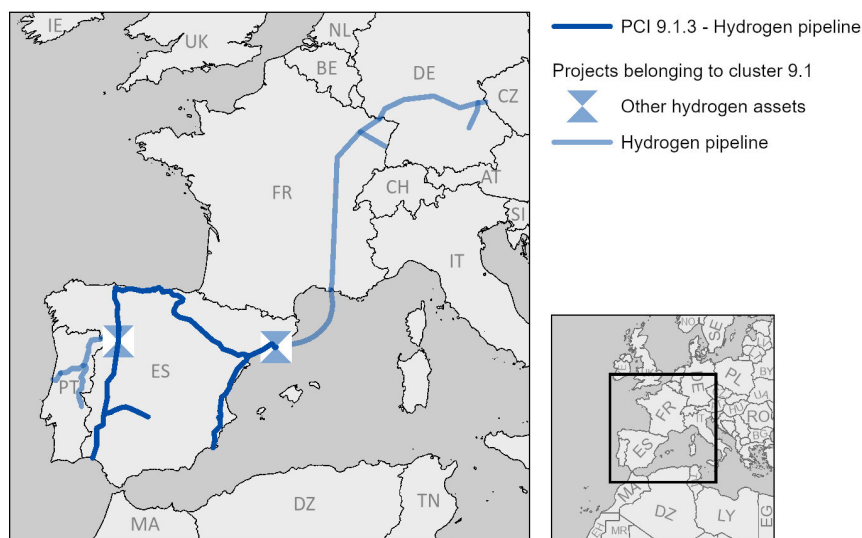
<https://www.enagas.es/en/energy-transition/gas-network/energy-infrastructure/>

LOCATION

Spain

COMMISSIONING DATE

31/12/2029



Source: PLATTS, GISCO, European Commission

Technical description

The Spanish hydrogen backbone includes two main axes of pipelines of a total approximate length of 2,600 km:

Axis 1: Gijón - Santander - Bilbao - Guipúzcoa - Haro - Zaragoza - Tivissa - Tarragona - Barcelona; Tivissa - Montesa, Montesa - Cartagena of approximately 1,500 km

Axis 2: Gijón (Musel) - Zamora - Almendralejo - Huelva; Almendralejo - Puertollano, of approximately 1,050 km

Besides, the Spanish Hydrogen Backbone will include the compression stations to ensure the proper flow of hydrogen through the network, as well as different types of valve positions (regulation and metering stations).

It is expected that national hydrogen transmission capacity will reach approx. 325 GWh/d or 3 Mt/y (Axis 1) and 101 GWh/d or 0.9 Mt/y (Axis 2).

LAST UPDATE

March 2025

Energy

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Benefits and contribution to objectives referred to in TEN-E Article 1

The project will contribute to climate change mitigation by bringing additional sustainability benefits by reducing the CO2 emissions. It will also contribute to increased interconnectivity and improve hydrogen market integration. More details and explanations on the benefits of the project are available at:

https://www.entsog.eu/sites/default/files/2023-09/1.PS-CBAs_Project_Fiches.zip

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1. Implementation status

Permitting

2. Timeline of the implementation plan (*)

2.1 Estimated timeline for the completion of feasibility and design studies for the project

Project stage	Start date	End date
Feasibility study	01/01/2025	30/06/2025
FEED study	01/07/2025	30/06/2026

2.2 Estimated timeline for obtaining the approval by the national regulatory authority and the Final Investment Decision

Project stage	Date of request	Date of decision
Approval by the NRA	NO DATA	NO DATA
CBCA (if applicable)	NO DATA	NO DATA
Exemption (if applicable)	NOT APPLICABLE	NOT APPLICABLE

Final Investment Decision	30/06/2026
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2.3. Estimated permit granting schedule¹

Date of request	Date of decision
04/12/2024	30/06/2027

This schedule should be in line with the permit granting schedule required by Article 10 4(b) of the TEN-E Regulation, where applicable. According to this Article, a permit granting schedule has to be drawn up by the competent authority in close cooperation with the project promoter and other authorities concerned.

2.4. Estimated timeline for construction and commissioning

Activities	Start date	End date
Construction	01/07/2027	31/12/2029

Commissioning date	31/12/2029
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(*) Please note that all dates in this document refer to the latest dates of each implementation stage for the entire PCI/PMI, considering all infrastructures included in the project. The implementation status reflects the least advanced status of all PCI/PMI infrastructures.

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PCI costs and EU funding

PCI costs

3,500,000,000 EUR

CEF Actions contributing to this PCI

Action	Awarded amount	Link to Action Fiche
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Other sources of EU funding

Programme	Awarded amount	Link to Action Fiche
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