

Project of common interest:

9.24.1

H2 storage North – 1

Hydrogen interconnections in Western Europe

CATEGORY

Hydrogen and Electrolysers

CLUSTER

9.24: Hydrogen storages in Spain

COUNTRIES CONCERNED

Spain(ES)

PROMOTERS

Enagás Infraestructuras de
Hidrógeno

PCI WEBSITE(S)

https://www.enagas.es/content/dam/enagas/en/files/accionistas-e-inversores/comunicados-cnmv/otra-informacion-relevante/2023/20230119_PPT%20D%C3%ADa%20H2_INGL%C3%89S.pdf

LOCATION

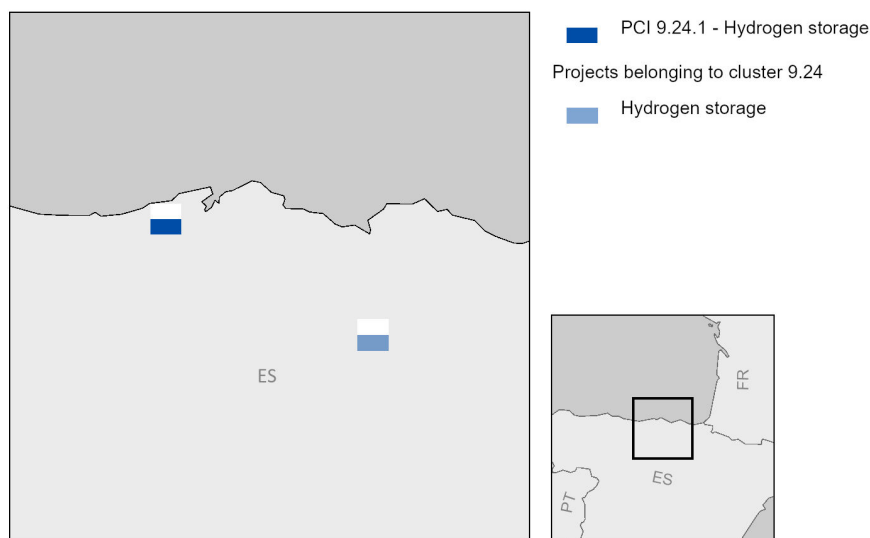
Cantabria (ES)

COMMISSIONING DATE

31/12/2029

LAST UPDATE

June 2025



Source: PLATTS, GISCO, European Commission

Technical description

The project consists of the development of a Salt Cavern for H2 seasonal storage in the Cantabria as part of the national Spanish hydrogen system.

The key infrastructure components H2 storage North-1 will have the following technical specifications:

- Injection capacity: 11 mcm/d - 41 GWh/d.
- Withdrawal capacity: 11 mcm/d - 41 GWh/d.
- Working gas volume of 6,884 t is expected by 2030. In later development stages the working gas volume will reach up to 13,767 t.

The underground hydrogen storage capacity is expected to increase from 77 mcm to 154 mcm under normal conditions.

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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	11/10/2023	15/02/2024
FEED study	01/09/2024	31/12/2025

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)	NO DATA	NO DATA

Final Investment Decision	30/11/2027
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2.3. Estimated permit granting schedule¹

Date of request	Date of decision
30/04/2025	30/11/2027

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	01/12/2027	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

580,000,000 EUR

CEF Actions contributing to this PCI

Action	Awarded amount	Link to Action Fiche
9.24.1-ES-S-M-24-H2-STORAGE-N1	7,709,476 EUR	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/projects-details/43251567/101223496/CEF2027

Other sources of EU funding

Programme	Awarded amount	Link to Action Fiche