European Commission

Project of common interest:

1.18

Reversible Hydraulic Pumped Energy Storage AGUAYO II (ES)

North-South electricity interconnections in Western Europe

CATEGORY
Electricity

CLUSTER
n/a: n/a

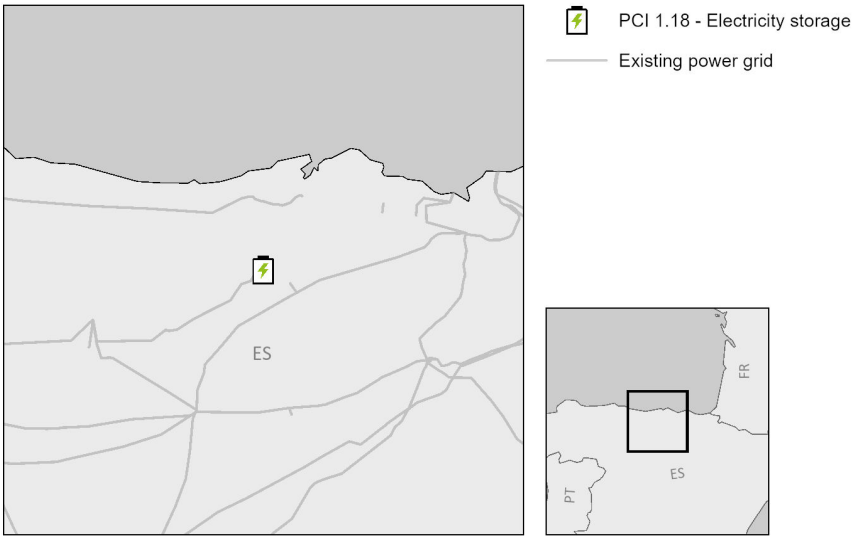
COUNTRIES CONCERNED
Spain(ES)

PROMOTERS
REPSOL GENERACIÓN SAU (ES)

PCI WEBSITE(S)
https://www.repsol.com/es/energia-futuro/futuro-planeta/energia-hidraulica/index.cshtml

LOCATION
Cantabria

COMMISSIONING DATE
31/12/2030



Source: PLATTS, GISCO, European Commission

Technical description

The project will provide a generation capacity of 1000 MW and daily storage capacity of 6 GWh. It will be equipped with four 250 MW reversible turbine-pump hydraulic groups.

It will be located in the Alsa reservoir in Cantabria. The project aims to pump the water from this existing reservoir to an existing higher reservoir named Mediajo and will turbine it to generate electricity and restoring it back to the Alsa reservoir.

LAST UPDATE
June 2025

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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, in particular by reducing curtailment of renewable energy. It will also contribute to increased interconnectivity and improve market integration. Furthermore, the project will contribute to increased security of supply by improving adequacy, stability or flexibility of the energy system. More details and explanations on the benefits of the project are available at:

https://tyndp2022-project-platform.azurewebsites.net/projectsheets

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Energy

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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	01/2021	12/2024
FEED study	01/2022	12/2024

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	NOT APPLICABLE	NOT APPLICABLE
CBCA (if applicable)	NOT APPLICABLE	NOT APPLICABLE
Exemption (if applicable)	NOT APPLICABLE	NOT APPLICABLE

Final Investment Decision	2025

2.3. Estimated permit granting schedule[1]

Date of request	Date of decision
05/2023	01/2026

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	01/2026	08/2030

Commissioning date	31/12/2030

(*) 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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LAST UPDATE
June 2025

PCI costs and EU funding

PCI costs
800,000,000 EUR

CEF Actions contributing to this PCI

Action	Awarded amount	Link to Action Fiche

Other sources of EU funding

Programme	Awarded amount	Link to Action Fiche

Energy