



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/en/about-us/our-operations/low-carbon-generation/aguayo-ii/index.cshmtl>

LOCATION

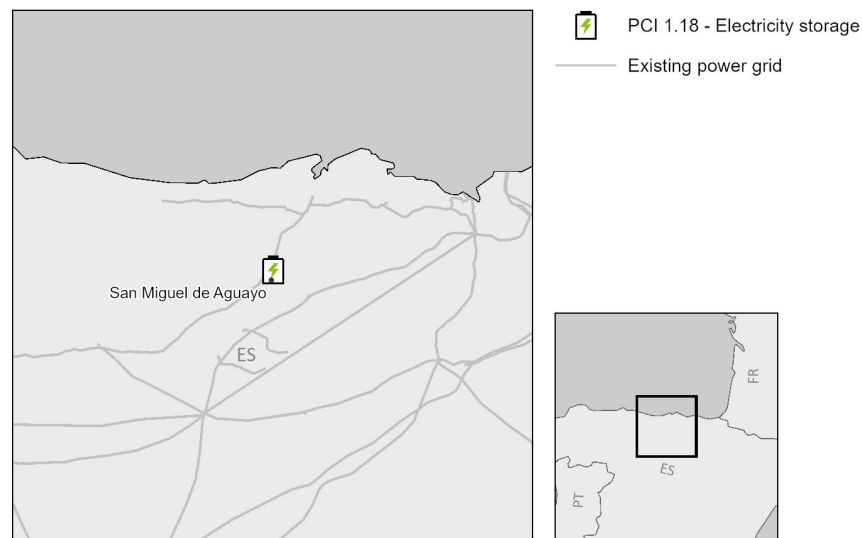
Cantabria

COMMISSIONING DATE

31/12/2030

LAST UPDATE

April 2026



Technical description

AGUAYO II is a reversible pumped storage hydroelectric power plant (PSH) that will extend the existing AGUAYO I PSH (360 MW) and provide additional generation capacity of 1000 MW and daily storage capacity of 6 GWh. It will be located in the Alsa reservoir in Cantabria and will be equipped with four 250 MW reversible turbine-pump hydraulic groups. It also includes a partial modification of the existing 220 kV transmission line, installation of a new 400 kV line and extension of a substation.

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, 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://tyndp2024.entsoe.eu/projects-map>

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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	05/2026
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2.3. Estimated permit granting schedule¹

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

This schedule should be in line with the permit granting schedule required by Article 10 6(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	06/2026	12/2030

Commissioning date	31/12/2030
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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.

LAST UPDATE

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PCI costs and EU funding

PCI costs

800,000,000 EUR

CEF Actions contributing to this PCI

Action	Awarded amount	Link to Action Fiche
1.18-ES-W-M-25-AGUAYO II	180,025,708 EUR	

Other sources of EU funding

Programme	Awarded amount	Link to Action Fiche
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