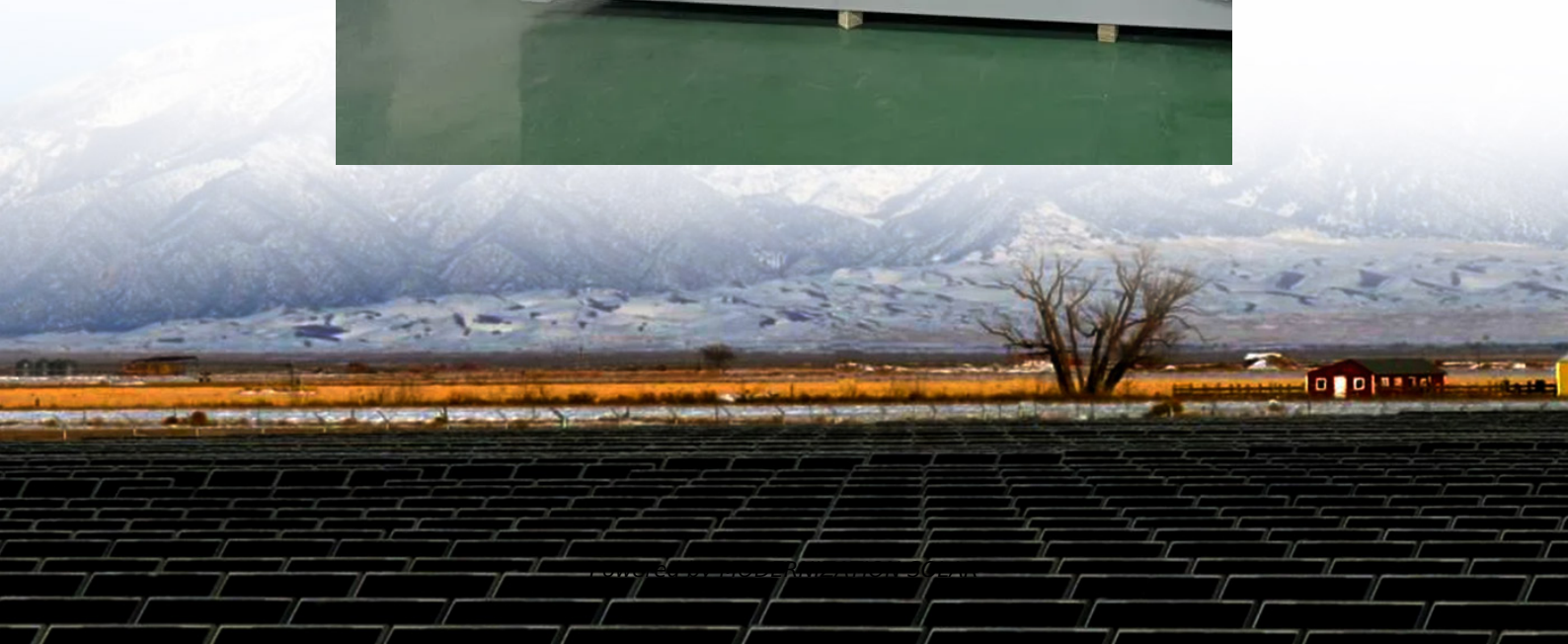


# Construction planning of energy storage project in Rotterdam Netherlands





## Overview

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What is the port of Rotterdam CO2 transport hub & offshore storage project?

With the infrastructure buildout phase underway, the groundwork is being laid down for the first large-scale Dutch carbon capture and storage (CCS) project, known as the Port of Rotterdam CO2 transport hub and offshore storage (Porthos) project, a joint venture between EBN, Gasunie and the Port of Rotterdam Authority.

How can CO2 be stored in Rotterdam?

Read more here. Porthos is developing a project to transport CO2 from industrial companies in the port of Rotterdam and store it in empty gas fields under the North Sea. Thanks to Porthos, some 2.5 million tonnes of CO2 will be captured annually and stored permanently.

How is CO2 reduced in Rotterdam?

The Climate Agreement explicitly chose CCS as one of the measures for CO2 reduction. In the Porthos project, CO2 from industry in the port of Rotterdam is captured, transported and stored in empty gas fields under the North Sea. Construction of Porthos has visibly started near Rozenburg.

How will Rotterdam transport CO2 to depleted gas fields?

Upon completion, the brand-new infrastructure will enable the transport of CO2 in the port of Rotterdam to depleted gas fields in the North Sea. Following the final investment decision (FID) in October 2023, Porthos began awarding assignments to the industry and the supply chain to realize the project.



## Construction planning of energy storage project in Rotterdam Neth

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### [Rules for construction in the Netherlands , Business.gov](#)

You usually need an environment and planning permit. Technical and spatial construction The Environment and Planning Act (Omgevingswet) splits the construction of a building (structure) ...

### [First four-hour battery storage in the ...](#)

Feb 6, 2025 · Rotterdam-based S4 Energy is now operating 10 MW / 40 MWh Tesla Megapack battery energy storage system (BESS) in the ...



### [The hydrogen system is taking shape , Port of ...](#)

May 7, 2025 · Here is a look at the key hydrogen projects from the past year, in no particular order: Holland Hydrogen 1 under construction ...

## **Porthos > Gasunie**

Porthos is the first large-scale CO<sub>2</sub> transport and storage project to be realised in the European Union. In this project, CO<sub>2</sub> from the Rotterdam port industry will be captured, transported and ...



### Rotterdam: energy sector

Rotterdam is a key player in national programs like the Dutch Energy Agreement and Climate Agreement, aligning local initiatives with the ...



### CO2 reduction through storage under the North Sea

Nov 6, 2025 · In the Porthos project, CO<sub>2</sub> from industry in the port of Rotterdam is captured, transported and stored in empty gas fields under the North Sea. Construction of Porthos has ...



### Air Products to Build Europe's Largest Blue Hydrogen Plant ...

Nov 14, 2023 · At the same time, Air Products is working hard to further decarbonise its own activities and those of its customers by realising plans to make green hydrogen available from ...

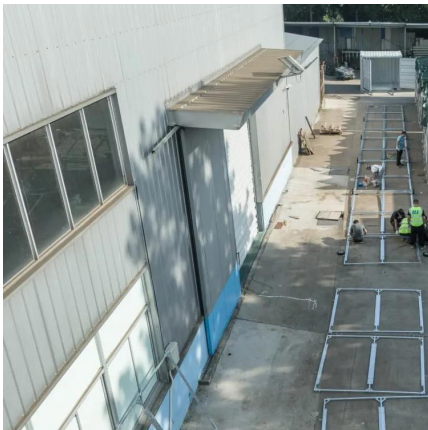






### [Porthos in the making: New construction steps setting the ...](#)

Sep 3, 2024 · With the infrastructure buildout phase underway, the groundwork is being laid down for the first large-scale Dutch carbon capture and storage (CCS) project, known as the Port of ...



### [Porthos lays foundations for future European ...](#)

Sep 2, 2024 · Reading time: 5 minutes  
Construction of the Porthos CCS project in the port area of Rotterdam is well underway. It is the first CO2 ...

### [Hydrogen Plant Build at Port of Rotterdam: ...](#)

May 8, 2025 · Explore the key hydrogen projects taking shape at the Port of Rotterdam, including Europe's first major renewable hydrogen plant, ...



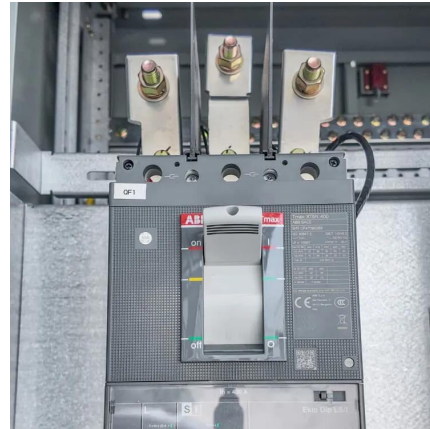
### [Top 12 energy transition projects in the port of Rotterdam](#)

Aug 31, 2023 · Discover the top 12 energy transition projects of 2023 aiming for a CO2-neutral port of Rotterdam by 2050.



## [EP NL and Eneco invest in 200 MWh battery storage project ...](#)

15.7.2025 EP NL and Eneco are realising a large-scale battery project at Enecogen's Europoort power plant, in which both parties hold a 50% stake. The battery will have a connection ...



## [ExxonMobil Launches Fuel Cell-Based Carbon ...](#)

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## [First CO2 storage project in the Netherlands is launched](#)

Oct 18, 2023 · Porthos has taken a final investment decision to develop the first major CO2 transport and storage system in the Netherlands. In 2024 construction will begin in Rotterdam, ...



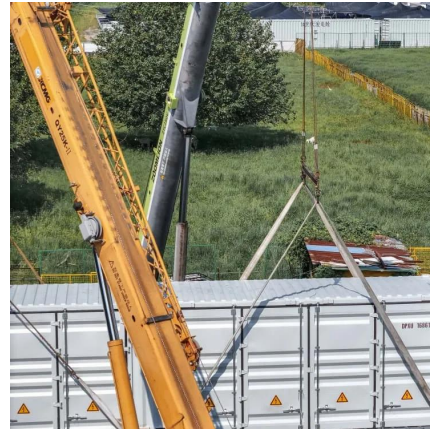
## [Construction of First Dutch Carbon Capture & Storage Project ...](#)

Apr 13, 2024 · Construction of the first large carbon dioxide transportation, and storage system in the Netherlands has started. Crews working on the project, named Porthos, began the first ...



## [First CO2 storage project in the Netherlands ...](#)

Oct 18, 2023 · The onshore transport system under construction allows for future CO 2 storage projects. Hans Meeuwsen, Porthos director: "CO2 ...



## [Hydrogen in Rotterdam , Port of Rotterdam](#)

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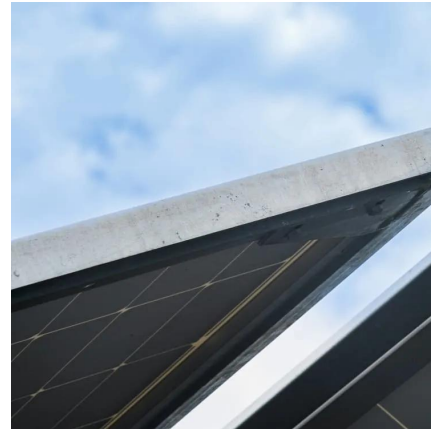
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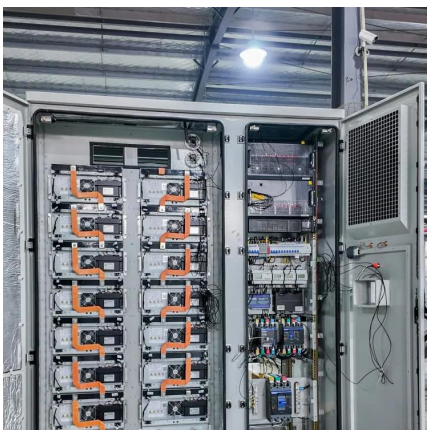
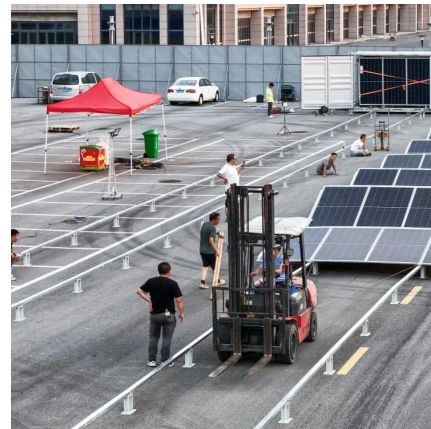


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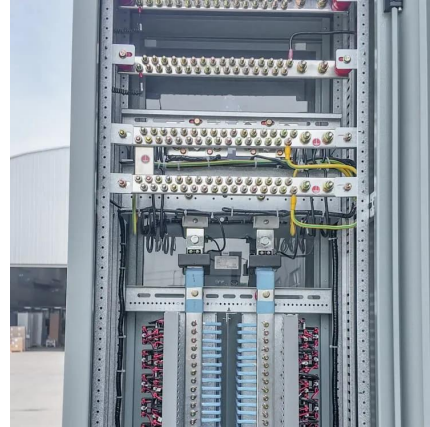
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## [Construction of Energy Storage Photovoltaic Project in Rotterdam](#)

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