



European
Commission

Project of common
interest:

12.3

PCI fiche

CO2 TransPorts aims to establish infrastructure to facilitate large-scale capture, transport and storage of CO2 from Rotterdam, Antwerp and the North Sea Port

Cross-border carbon dioxide network

CATEGORY
Carbon Dioxide

CLUSTER
n/a: n/a

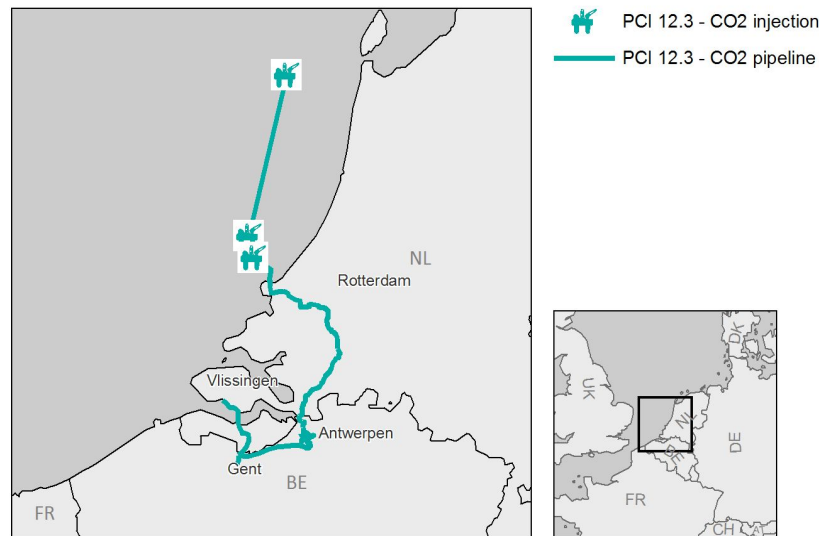
COUNTRIES CONCERNED
Netherlands(NL)
Belgium(BE)

PROMOTERS
Havenbedrijf Rotterdam N.V
(NL)
North Sea Port (BE/NL)
Havenbedrijf Antwerpen NV
van publiek recht (BE)

PCI WEBSITE(S)
<https://www.rotterdamccus.nl/en/>

LOCATION
Rotterdam (NL), Antwerp
(BE), North Sea Port (BE/NL)

COMMISSIONING DATE
2026



Source: PLATTS, GISCO, European Commission

Technical description

CO2TransPorts is comprised of multiple pipelines proposed to be developed in three distinct project phases.

Part 1 – Rotterdam: The onshore transport pipeline has a diameter of 1080 mm (42 inch) up to the compressor and a maximum length of 33 kilometres. The pipeline will operate under an operating pressure between 15 and 40 bar. This is the operational pressure in the system up to the compressor, ensuring the CO2 is in gaseous state. Depending on the operational pressure, the capacity of the pipeline is between 4-10 Mt per year.

The 20 MW compressor station will operate at a suction pressure of about 30 bar (at maximum). The supplied CO2 is then exclusively in gas phase. The compressor station brings the CO2 for the offshore transport pipeline to pressures of approximately 85 bar (and a maximum of 120 bar). The offshore transport pipeline has a length of approximately 25 km and a diameter of up to 600 mm. The operational pressure in the offshore transport pipeline will be at a maximum of 120 bar. The pipeline consists of a carbon steel pipe and is insulated to minimize the heat loss.

Parts 2-3: Antwerp/Ghent: The construction of local backbones in the Antwerp and Ghent Clusters to transport CO2 to the storage sites is being investigated.

CEF funding

12.3-0022-NL-S-M-18: Awarded CEF co-funding: 6,518,350 EUR
https://ec.europa.eu/assets/cinea/project_fiches/cef/cef_energy/12.3-0022-NL-S-M-18.pdf

12.3-0022-NL-W-M-20: Awarded CEF co-funding: 102,135,856 EUR
https://ec.europa.eu/assets/cinea/project_fiches/cef/cef_energy/12.3-0022-NL-W-M-20.pdf

12.3-0027-BENL-S-M-20: Awarded CEF co-funding: 5,785,000 EUR
https://ec.europa.eu/assets/cinea/project_fiches/cef/cef_energy/12.3-0027-BENL-S-M-20.pdf



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LAST UPDATE
October 2023

Energy

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