

Project of common interest:

12.1

CO₂ interconnection

Cross-border carbone dioxide network

COUNTRIES INVOLVED

United Kingdom (UK)
Belgium (BE)
Netherlands (NL)
Germany (DE)

PROJECT PROMOTERS

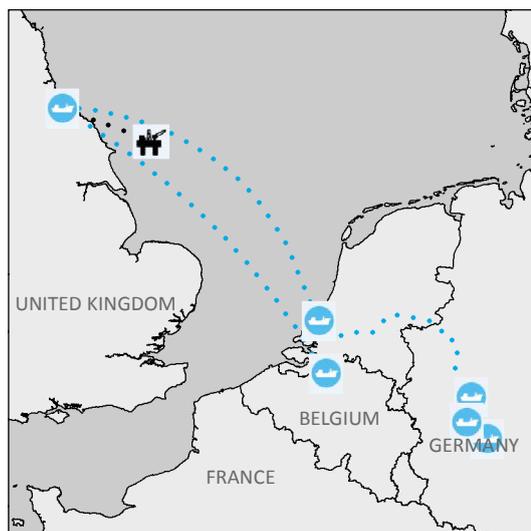
Tees Valley (Combined Authority)

LOCATION

Teesside (UK); Antwerp (BE), Rotterdam (NL), Rhine (DE)

COMMISSIONING DATE

Shared onshore and offshore pipe :
2025 CO₂ import/export terminal in Teesside, import/export terminal in Rotterdam, and export terminal in Antwerp: 2030



-  PCI 12.1 - CO₂ terminal
-  PCI 12.1 - CO₂ injection
-  PCI 12.1 - CO₂ shipping route
-  PCI 12.1 - CO₂ pipeline

Source: PLATTS, GISCO, European Commission

Definition

12.1 - Teesside CO₂ hub (United Kingdom, in further phases Netherlands, Belgium, Germany)

Type of technology employed

Dedicated pipelines, other than upstream

1. Shared onshore pipeline connecting capture sites on Teesside. 2. Shared capacity offshore pipe with booster facilities connecting to a UK store for permanent geological storage, currently assumed to be at the Bunter Aquifer.

Facilities for liquefaction and buffer storage of carbon dioxide in view of its further transportation

1. Shared capacity import/export CO₂ shipping terminal on Teesside with liquefaction, loading, storage, heating and pumping facilities for injection into shared pipe to store.

2. Export terminal at Antwerp with storage and liquefaction equipment for onward ship transport to Teesside import terminal and final injection into shared offshore pipe.

3. Barge based CO₂ terminals with storage and liquefaction equipment on the German Rhine to barge CO₂ to Rotterdam terminal.

4. Loading and export terminal at Rotterdam to receive barged CO₂ from Germany for onward ship transport to the Teesside import terminal for final injection into a shared offshore pipe.

Any equipment or installation essential for the system

Implementation status

Feasibility studies

LAST UPDATE

March 2018

Energy

Note: The project location as depicted on the map is indicative only. The final location will be determined once the permit granting procedure has been completed.