

CCUS Projects Network – an introduction

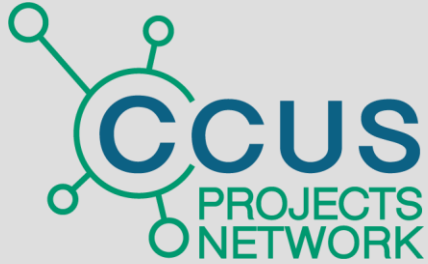
Dr Philippa J M Parmiter

Scottish Carbon Capture & Storage

Date: 15/05/2019



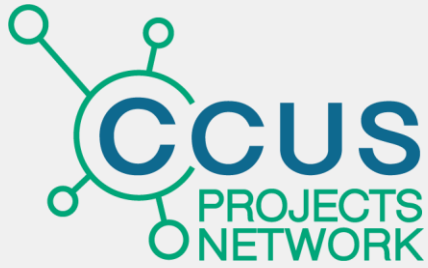
This project is financed by the European Commission under service contract No ENER/C2/2017-65/SI2.793333.



Objectives

- The Network aims to foster knowledge sharing among existing and emerging major CCUS projects
- The Network objectives are:
 - Support successful deployment of CCUS technologies
 - Increasing public support of CCUS
 - Substantially contribute to positive climate outcomes
- The Network seeks to maximize support to CCUS through cooperation with ZEP and SET-Plan IWG9, IMPACTS9 project





Secretariat

- Lead by Trinomics
- Partners include SINTEF and TNO – previously involved in the GCCSI led EU CCS Demonstration Projects Network
- And Bellona (policy and regulation), Dechema (CCU) and SCCS (dissemination, knowledge exchange and communication)

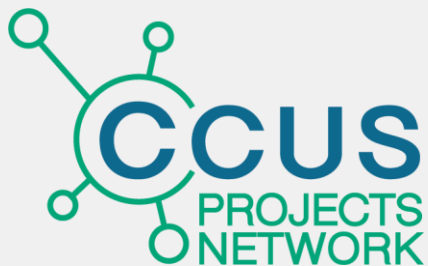


Type of project
















Member projects in the Network should:

- have a clear objective of deploying a substantial CCUS facility
- have potential to progress at least one of the targets, R&I or flagship activities of the SET-plan
- have a dedicated project owner, and explicit support from industry where industry is not the project owner
- can show environmentally beneficial impacts, and large CO₂ emission reduction targets
- be committed to strengthening European CCUS industry through sharing and absorbing knowledge
- have a commitment to public engagement and to improve awareness and acceptance of CCUS in general



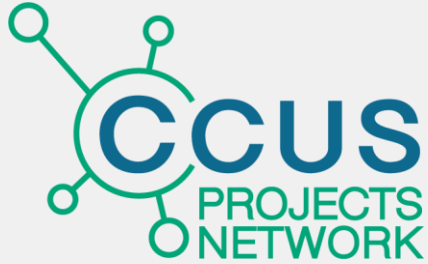


Network Members

 The Acorn Project	 ECRA	 ERVIA CCUS	 LEILAC	 Northern Lights	 Everest
 TCM	 CarbFix	 Drax Bioenergy & CCS	 ATHOS Consortium	 Fortum Oslo Varme	 KVA Linth
 PORTHOS Project	 Carbon Collectors	 Gassnova – Associate Member			



This project is financed by the European Commission under service contract No ENER/C2/2017-65/SI2.793333.



PORTHOS PROJECT

Port of Rotterdam, Air Liquide, Air Products, ExxonMobil, Shell

<https://www.porthosco2.nl/en/project/>

Customers (oil refineries and blue hydrogen production) will capture and supply their CO₂ to the collection pipeline.

CO₂ transported via offshore pipeline to a platform in the North Sea, approx. 20 km off the coast.

CO₂ will be injected into a depleted gas field, forming a sealed reservoir of porous sandstone, more than **3 km beneath** the North Sea.

Initially this project will be able to store approx. **2.5 million tonnes of CO₂ per year**.

A larger group of partners are also involved in blue hydrogen project, H-Vision which aims to produce hydrogen to decarbonise transport

<https://www.h-vision.nl/en>

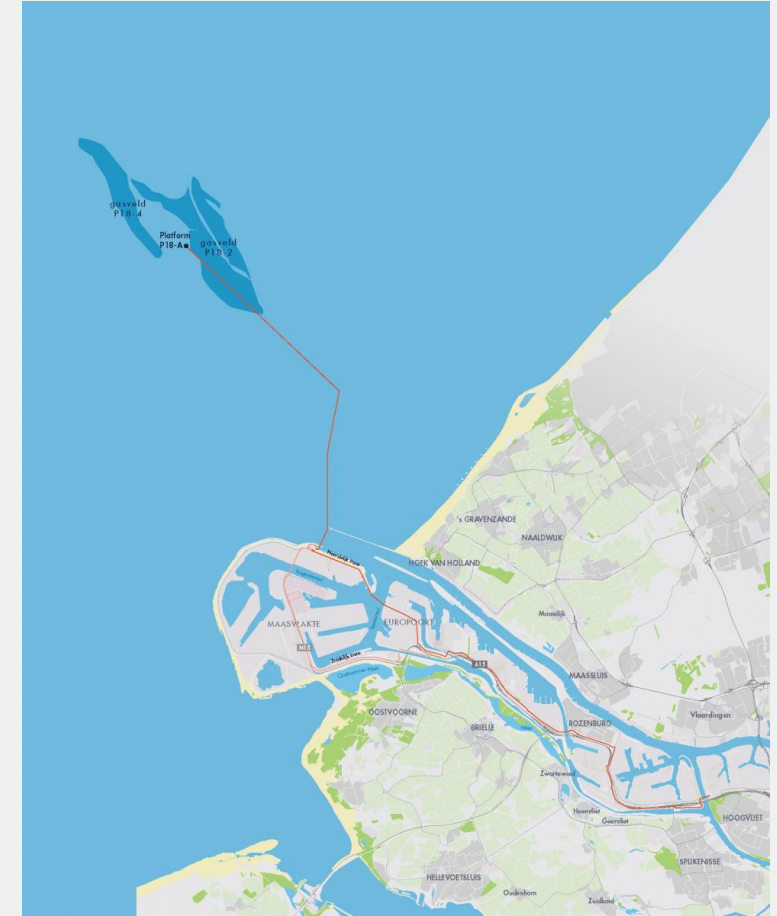
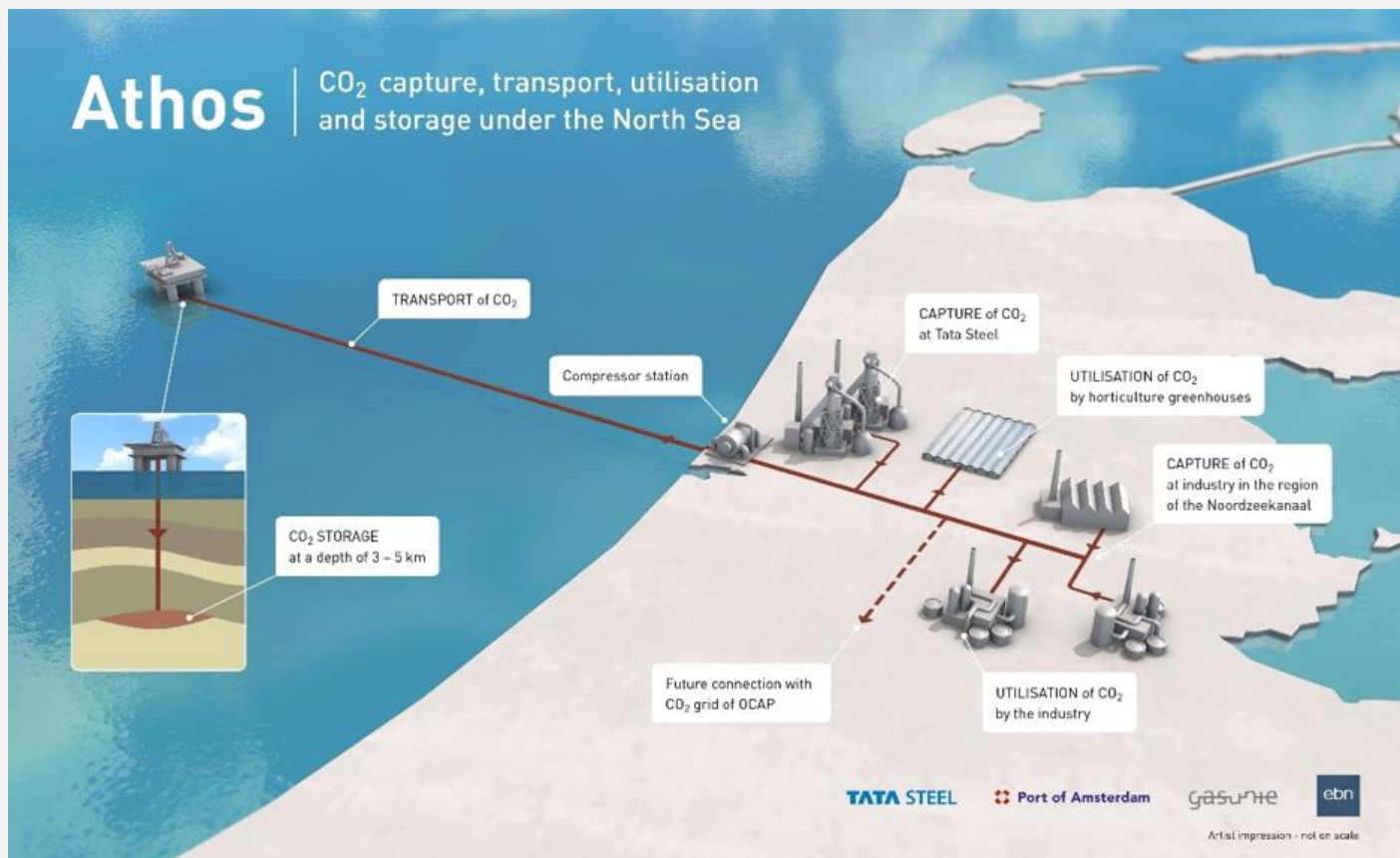


Image courtesy of PORTHOS



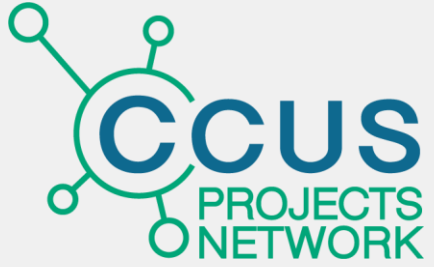
ATHOS and EVEREST



- Enhancing Value by Emissions Reuse and Emission Storage (EVEREST) – capturing CO₂ from the Tata Steel production process
- Approx. 3MtCO₂/yr delivered to ATHOS transport and storage network
- ATHOS – Gasunie, EBN, Port of Amsterdam, Tata Steel, feasibility study has shown that companies in the North Sea Canal area can reduce emissions by 7.5Mt/yr through CCUS.

Graphic by TATA STEEL, Port of Amsterdam, Gasunie, EBN, source: <https://www.portofamsterdam.com/en/request-athos>





This project is financed by the European Commission under
service contract No ENER/C2/2017-65/SI2.793333.

