

CCS and CO₂ Management – from Capture to Offshore Storage

A technology conference hosted by DTU Offshore – Danish Offshore Technology Centre

Conference Objective

With this one-day technical conference, Danish Offshore Technology Centre will bring key actors from industry and academia together to put focus on interphase issues along the CCS value chain.

Knowledge based industry standards for CCS value chain interphase management may ensure flexibility of CO₂ storage sites and could become a competitive advantage for the Danish North Sea as a leading CO₂ storage market.

With the intensified focus on reaching the climate goals in Denmark and internationally, knowledge and technologies within CO₂ capture, CO₂ storage and CO₂ transport are maturing rapidly these years. Finding the right balance of the CO₂ pressure, temperature, and quality along the CCS value chain is important not only for the economic viability and safety of projects but also to achieve the lowest possible CO₂ footprint.

Despite this, management of the interphases between the three parts of CCS attracts little attention.

Through a series of expert presentations and discussions this conference will point at areas where knowledge and new technologies are needed to manage the interphases between capture, transportation, and storage of CO₂. Issues to be discussed include management of CO₂ phase changes and CO₂ quality, standards, and optimisation of the overall CO₂ footprint of CCS projects.

This conference offers:

- A technical focus on CCS
- Connecting three parts of CCS (capture, transport, and storage)
- Attention to the CO₂ footprint of CCS
- Bringing CCS actors from industry and academia together for knowledge sharing and networking

Venue

Bernstorff Slot
Jægersborg Allé 93
2820 Gentofte

The conference takes place in Kavalérsalen.

Lunch and networking/poster session take place in the main building.

Conference Programme

Moderator: Program Manager **Jørgen Rentler Næumann**, DTU Offshore

8.30 Registration and morning buffet

9.00 Welcome and introduction to the day

CEO **Morten W. Jeppesen**, DTU Offshore

9.15 Porthos – CO2 Transport and Storage from Rotterdam

Process Engineering Lead **Michiel Spits**, EBN (Energie Beheer Nederland)

9.45 Bifrost: Offshore CO2 transport and storage project – concept and tech challenges

Bifrost Technical Lead **Mathieu Prevost**, TotalEnergies

10.15 Coffee break

10.45 Standards and opportunities for CO2 vessel transport

Vice President **Ajay Arora**, Evergas

11.15 CO2 capture - challenges and opportunities from a research perspective

Professor **Peter Westh**, DTU Bioengineering

11.45 Lunch Break

12.45 CO2 capture - challenges with interphases

Global Sales Leader **Henrik Lyhne**, Pentair

13.15 Effects of CO2 impurities on storage

Senior Researcher **Hamid Nick**, DTU Offshore – Danish Offshore Technology Centre

13.45 CO2 quality challenges through the CCS value chain

Project Manager **Kate Harboe**, Dansk Gas Teknisk Center

14.15 Coffee break

14.45 Project Greensand – CO2 footprint of the CCS value chain

Project Director **Søren Reinhold Poulsen**, Ineos

15.15 Panel discussion: Opportunities for value chain optimisations

- Bifrost Technical Lead **Mathieu Prevost**, TotalEnergies
- Project Director **Søren Reinhold Poulsen**, Ineos
- Vice President **Ajay Arora**, Evergas
- Global Sales Leader **Henrik Lyhne**, Pentair
- CEO **Morten W. Jeppesen**, DTU Offshore

16.00-17.00 Networking and poster session

Enjoy a glass of wine while networking with colleagues from academia and industry

The programme is subject to change.