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
Jaegersborg 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.*