

# Carbon capture and storage in Denmark and the North Sea area

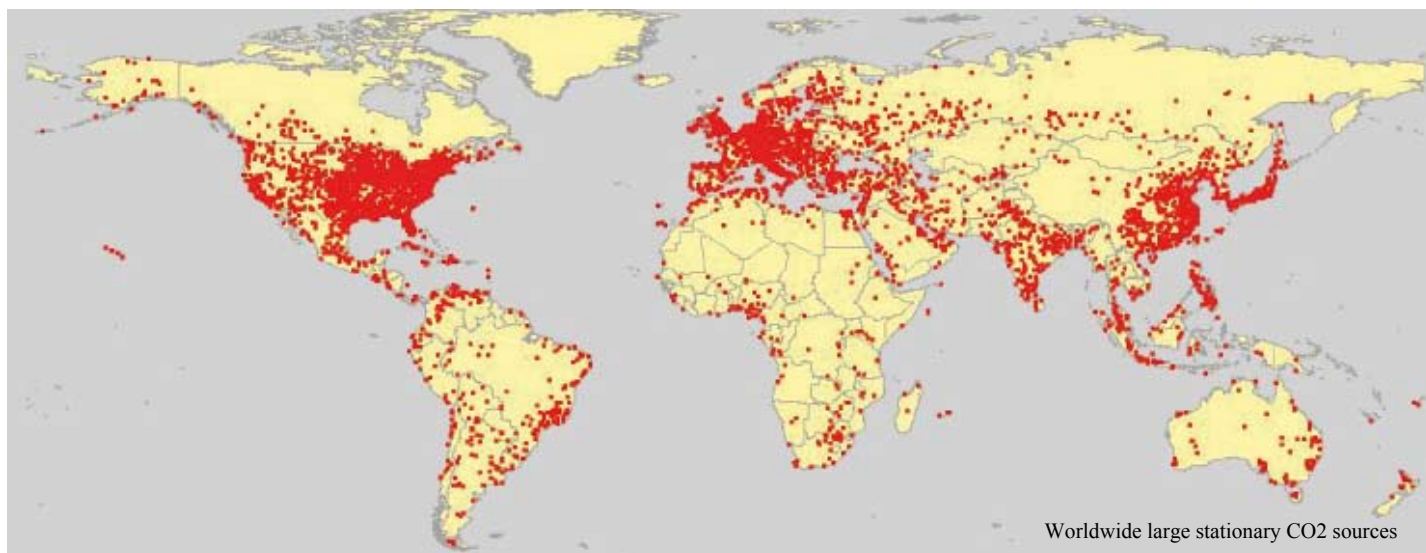
Seminar, Copenhagen 22nd of October



There are many full scale CO<sub>2</sub> capture and storage (CCS) projects planned in the North Sea area with storage possibilities both onshore and below the North Sea. The political and public knowledge and debate is very different in the North Sea countries. There is a general need for more information and knowledge about CCS, both among policymakers, organisations and the public.

ZERO therefore invites NGOs and other participants from the North Sea countries to an open seminar to address CCS in Denmark and the North Sea area, as well as the role of CCS in the international climate negotiations. Questions to be addressed through the presentations and discussion at this seminar include:

- What CCS technologies are available today?
- What is the role of CCS in combating climate change?
- How can we get good political framework for phasing out large emission sources?
- What is the potential for CO<sub>2</sub> storage in Denmark and the North Sea, and what are the main issues concerning storage safety?
- What is the latest status for CCS in the different countries surrounding the North Sea, and is there a need for more cooperation for common North Sea CCS policies and projects?
- Are we headed towards a sufficiently good new climate agreement? Will a new agreement ensure implementation of necessary technologies to meet the climate change challenge?
- How can we ensure that CCS knowledge is shared by the different groups of stakeholders?



## About ZERO

Zero Emission Resource Organization (ZERO) is an environmental organisation fully dedicated to the issue of climate change by actively demonstrating and gaining acceptance for zero emission solutions. We believe a zero emission solution exists for all energy use. Our mission is to work consistently for these solutions using our technical and political knowledge. Read more on our website [www.ZERO.no](http://www.ZERO.no)

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## Program

### 09.00 Welcoming remarks

#### Session: Energy scenarios, the role for CCS

The role of CCS in combating climate change  
- Energy technology strategies for a sustainable energy future  
Keith Burnard, Senior Energy Technology Specialist, International Energy Agency (IEA)

Power plant CO<sub>2</sub> standards: A timetable for CCS deployment and/or phasing-out non-CCS large combustion plants.  
And status for the EU-demonstration projects  
Mark Johnston, WWF European Policy Office

#### Session: Capture and Storage - technology and safety

Existing CO<sub>2</sub> capture and storage experience worldwide.  
Marius Gjerset, ZERO

Norwegian gas field Sleipner: Ten years of experience with large scale CO<sub>2</sub> storage  
Børge Rygh Sivertsen, StatoilHydro

Safety and challenges for underground storage of CO<sub>2</sub>. The potential for CO<sub>2</sub> storage in the North Sea and in Denmark  
Karen Kirk, BGS (British Geological Survey) and Peter Johannesssen, GEUS (Geological Survey of Denmark)

CO<sub>2</sub> capture - ready for full scale. Competition for full scale CCS in Norway.  
Olav Falk-Pedersen, Specialist Engineer CO<sub>2</sub> Capture.  
Gassnova SF, the Norwegian state enterprise for CCS (TBK)

## Lunch

### ~12.40 Session: CCS in Denmark

Potential for storage in depleted oil- and gas reservoirs in Denmark  
Michael Engell-Jensen. Senior Vice President, Carbon & Climate. Mærsk

Danish power plant Nordjyllandsværket - Full scale CCS from a coal/biomass fired powerplant  
Bjarne Korshøj, leader Technology Development Centre for Carbon Capture and Storage, Vattenfall

Energy and emissions goals and the role for CCS in Denmark  
Lars Christian Lilleholt, Member of Parliament. Energy and Climate speaker Venstre (one of the political parties in the Danish government)

Political comments by Ole Hækkerup, Energy and Climate speaker Socialdemokratene (the main opposition party) (TBK)

How to cut emissions fast enough without CCS? Denmark and developed countries perspectives  
Kim Ejlersen, NOAH (Friends of the Earth Denmark)

### ~14.30 Session: CCS in the North Sea area

One North Sea- a transboundary CO<sub>2</sub> study North Sea, Interim Report, Cooperation North Sea countries for CCS, North Sea Basin Task Force.  
Ruth Hampton, Head of International CCS, Department of Energy and Climate Change, UK

Short status for CCS in UK  
Neil Crumpton, FoE UK

CCS from industry in the Skagerrak region (South Norway, West Sweden and North Denmark), and CO<sub>2</sub> capture from biomass.  
Hans Axel Haugen, Tel-Tek.

Short status for CCS in Norway  
Anders Larsen, FoE Norway

Large scale CCS plans in Rotterdam,  
Rotterdam Climate Initiative

Short status for CCS in the Netherlands  
Erik Honing SNM (Stichting Natuur en Milieu), the Netherlands

### ~16.15 Session: The role of CCS in a new international climate agreement

Status for the COP15 process – on the way to a new ambitious climate agreement?  
Tove Maria Ryding, Chairman the 92 Group (TBK)

Will a new Copenhagen agreement ensure implementation of necessary technologies to meet the climate change challenge?  
John Nordbo, WWF

Knowledge sharing. A key element for global success for CCS  
Jesse Scott, E3G.

## Questions and closing remarks

### ~17.30 End of seminar

~ 18.30 Dinner. All participants invited

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## Additional arrangement

21st-22nd of October

EU GeoCapacity final open conference, at GEUS in Copenhagen. (<http://www.geology.cz/geocapacity>)

23rd of October (if interest): Excursion to CO<sub>2</sub> capture pilot plant at Dong's coal power plant in Esbjerg. (EU-project CASTOR and CÆSAR). Aprox. 10.30-13.30, Esbjerg.

Please response for reporting your interest to this arrangement within 15th of September, so we can decide whether to arrange it or not.

## Fees and registration

The registration fee to cover the cost for the seminar is 1000 DKK. Environmental NGOs, political parties and students are welcome to participate for free. Other non-profit organisations can apply for a reduced fee.

## Registration and more information:

[www.zero.no/ccs-seminar](http://www.zero.no/ccs-seminar) or [konferanse@zero.no](mailto:konferanse@zero.no).

Contact ZERO:

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## Location

Alexandersalen, University of Copenhagen. Bispetorvet 1-3



**ZERO EMISSION CONFERENCE 2009**  
28. - 29. september  
Clarion Hotel Oslo Airport Gardermoen

**Lord Nicholas Stern**

Sir Nicholas Stern, Gøran Persson,  
Helge Lund, Petter Stordalen ++

[www.zero09.no](http://www.zero09.no)