



## **Danish Carbon Capture and Storage Related Activities**

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Denmark is a member of the IEA Greenhouse Gas R&D programme, and thus supports the activities in this programme in relation to CCS.

In relation to exploitation of the Danish oil and natural gas resources in the North Sea Denmark is participating in the international R&D programme "Joint Chalk Research". In the present phase VI of this programme research is ongoing in relation to enhanced oil recovery by injecting CO<sub>2</sub>. The results from the Joint Chalk Research Programme are not publicly available.

The Danish power company ELSAM is involved in a project (CENS) to enhance oil recovery from oil fields in the North Sea by injecting CO<sub>2</sub> in the reservoirs. The CO<sub>2</sub> originating from coal fired power plants. The project has been presented to oil companies and authorities around the North Sea but is presently on stand by due to lack of commercial opportunities.

ELSAM is also involved in the CASTOR project. A pilot plant for testing CO<sub>2</sub> separation from flue gas produced by a coal fired power plant is under construction at a Danish plant and is expected to be in operation in 2006.

The Geological Survey of Denmark and Greenland (GEUS) are actively involved in a series of international projects on CCS.

- CO2STORE – EU RTD project on Sleipner Field monitoring & Best Practise Manual as well as evaluation of four potential storage scenarios (Norway, Denmark, Germany and Wales). Coordinator is Statoil.
- CASTOR – Major EU RTD project on capture and minor activities on storage. Coordinator is IFP France. GEUS leads activity on geological storage potential assessment in 8 Central and Eastern European countries).
- CO2SINK – Major EU RTD/demo of CO<sub>2</sub> test storage in abandoned gas structure in a populated area near Berlin. Coordinator is GFZ Potsdam.
- CO<sub>2</sub> GeoNet – European Network of Excellence focussing on geological storage of CO<sub>2</sub>. Members currently comprise 13 institutes from the 'old' EU. Coordinator is BGS UK
- CO<sub>2</sub>NET – The network of CCS stakeholders across Europe: 19 members from 19 countries. Functions as EU network until end 2005 and there after open for all interested members. Coordinator is Technology Initiatives Ltd UK.



- INCA CO2 – An international cooperation project supported by the EU. Coordinator is IF France and GEUS deals with CSLF and stakeholder activities.
- EU GeoCapacity – Expected EU project dealing with assessment of geological CO2 storage capacity in 14 countries (to supplement the previous 8 countries which comprised the GESTCO project). Cooperation on capacity assessment and methodologies with P.R. China will be part of the project. Coordinator will be GEUS DK.
- CO2 ReMoVe – Major EU project in preparation with a view to monitoring, verification and regulatory framework as based on real cases (Sleipner, Snöhvit, In Sala, Ketzin). Coordinator will be TNO NL.
- DYNAMIS – A major EU project in preparation with a view to developing pathways for Europe's future ZE power generation and the hydrogen society. Coordinator will be Sintef Norway.
- CSLF Task Force on CO2 Storage Capacity. Lead is Australia. GEUS nominated for the EC.
- EU 7<sup>th</sup> Framework Programme for R&D. GEUS is members of the Advisory Council for the ZE Power Generation Technology Platform which will be responsible for writing the R&D Vision and Strategic Research Plan.
- IEA GHG – GEUS participates in the IEA GHG Risk Assessment and Monitoring networks.



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