

Norwegian Energy Policy

The Potential Role of Carbon Capture and Storage

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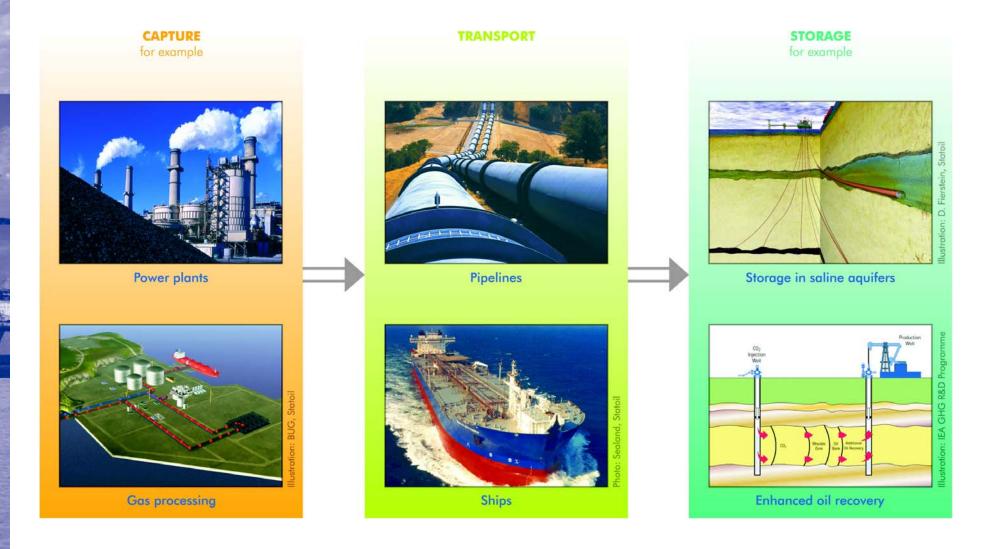
An Overview

- Fossil fuels will be with us long into the future
- Carbon Capture and StorageTechnologies will be one solution in a more sustainable energy future
- Solutions can only be found through combined efforts

Fossil fuels will be with us into the future

- The Outlook to 2030
 - energy demand is projected to rise by over 60 % up to 2030
 - approximately 90 % of the energy sources will be fossil fuels.
 - not on schedule for a sustainable energy future

CO₂ Capture, Transport and Storage Consept



Olje- og energidepartementet_____www.oed.dep.no

Solutions can only be found through combined efforts

- Co-ordinated international effort
- Co-operation between industry and government
- Well-focused R&D programmes
- Transition from R&D to technology deployment

The Norwegian context

- Norway currently has two projects on CO₂-storage:
 - Sleipner, 1 million tonnes annually, since 1996
 - Snøhvit, 700 000 tonnes annually, starting 2007
- Both projects in connection with:
 - extraction of petroleum from NCS CO₂ extracted from gas-stream
 - injection of CO₂ into a sub-seabed geological structure
 - injection into another reservoir than the producing, i.e. not for EOR

Ambitious goals to realize CCS...

- The Government has ambitious goals regarding capture, use and storage of carbon dioxide with a demanding timetable
- The aims are to:
 - cooperate with industry on realizing capture of carbon dioxide at gas fired power plants as soon as possible – the state will contribute financially.
 - make sure that the process to realize a carbon dioxide capturefacility at the Kårstø gas fired power plant within 2009 is started – the state will contribute financially
 - establishing a value chain for transportation and injection of CO₂ the state will contribute financially

....cooperation is a key factor

RESEARCH

- R&D
- Gassnova
- IEA
- CSLF
- MOU Norway-US
- Dialogue at a political level
 - energy dialogue Norway-EU Commission
 - joint statement between Norwegian and L energy ministers on CCS, including establishment of a North Sea Basin Task Force











Conclusions

 Solutions to a sustainable energy future can only be found through combined efforts

SSC technologies will be part of the solution

 The Norwegian government has ambitious goals, and the real work has already started