



OLJE- OG ENERGIDEPARTEMENTET

European CO₂ Test Centre, Mongstad Technology Work Shop

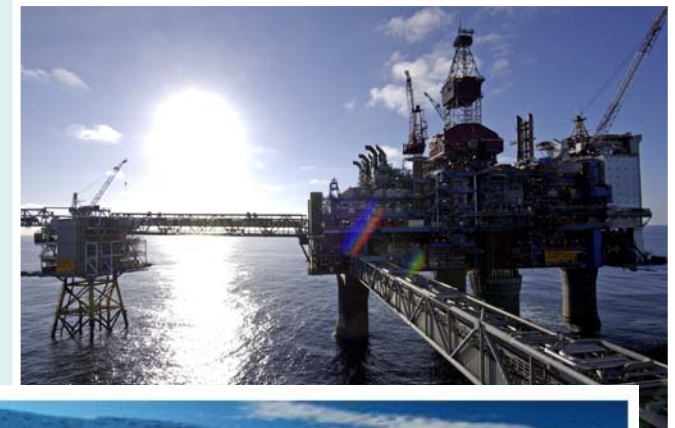
27. February 2007

Anita Utseth

State Secretary, Ministry of Petroleum and Energy

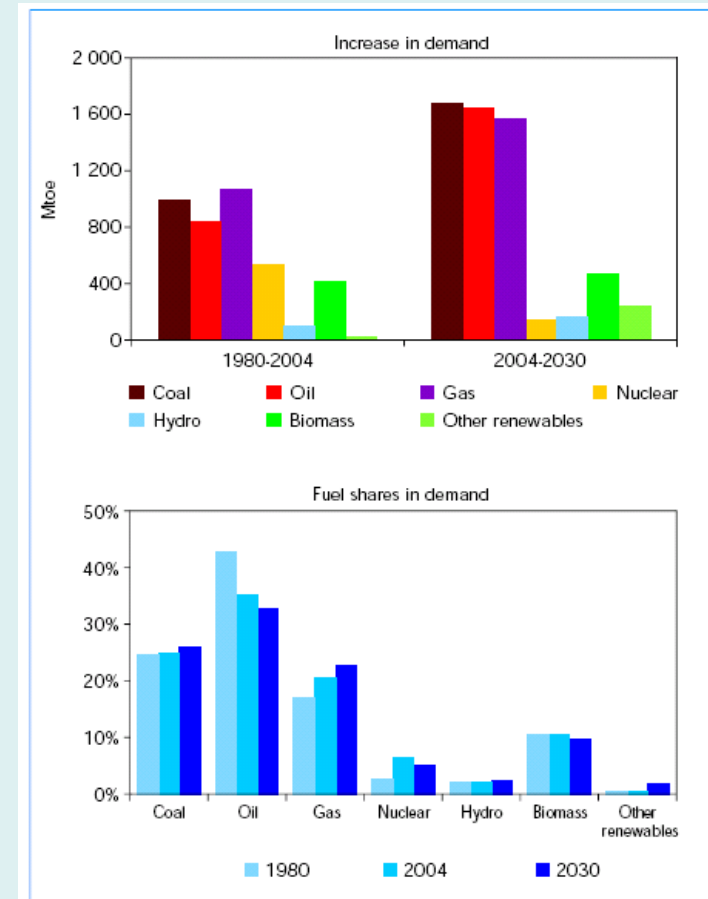
An Ambitious Policy for Carbon Dioxide Capture and Storage in Norway

- Norway shall be a leading nation in environmental and energy policy
- The Government is working persistently to develop new technology that will reduce the emission of greenhouse gases
- Our aim is to move from the research phase to actual construction of large scale test facilities for CO₂ capture at Mongstad



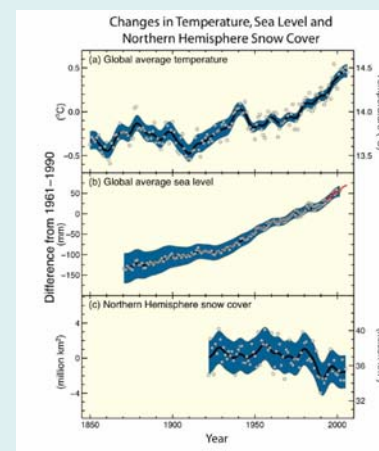
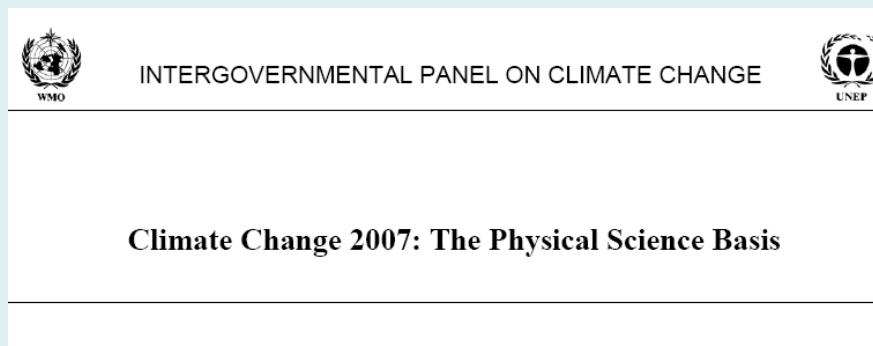
Increased Energy Demand

- IEA: Massive increase in global energy demand
- The share of oil and gas is expected to rise from 55 % today to about 60 % in 2030
- A secure energy supply in Norway requires an energy system that is less dependent on hydropower



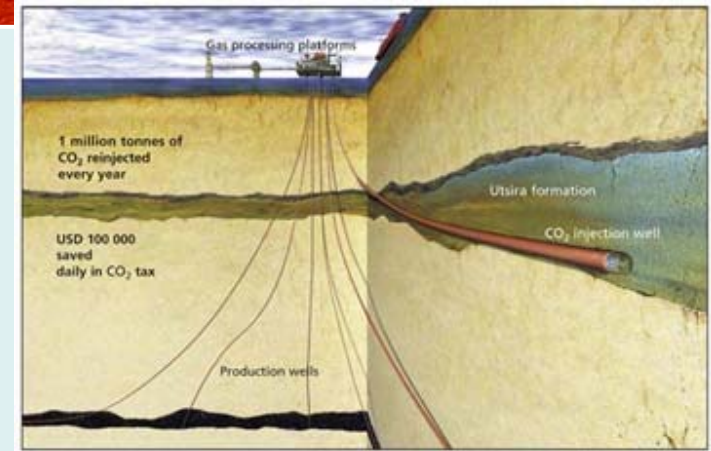
The Climate Challenge

- **UN IPCC: Scientific consensus regarding the quickening and threatening pace of human-induced climate change**
- **We are faced with a major challenge that requires us to take actions**



Norway has an important role

- **Experience: Storage of CO₂ on the Sleipner field**
 - Snøhvit in 2007
- **Objective: Significantly reduce the cost of capturing CO₂**
- **R&D activities on CCS technologies important**



Research, Development and Demonstration

- **Gassnova is supporting demonstration and pilot projects**
- **Gassnova and the Research Council of Norway administer 17 million Euros to support research, development and demonstration**
- **NTNU and SINTEF take active part in some of the most important international R&D projects on CCS**



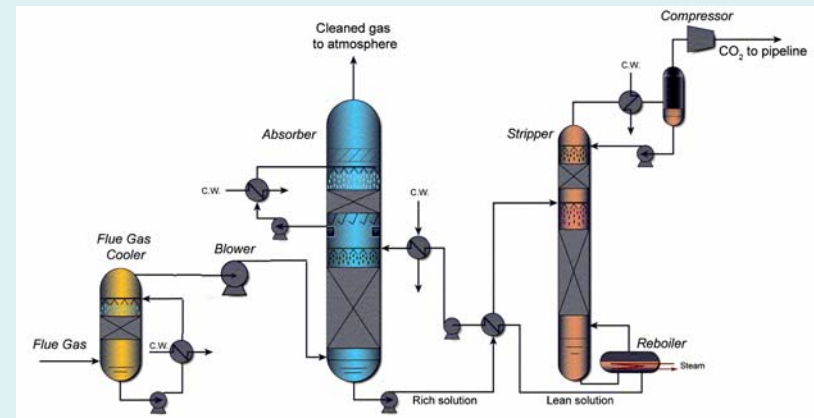
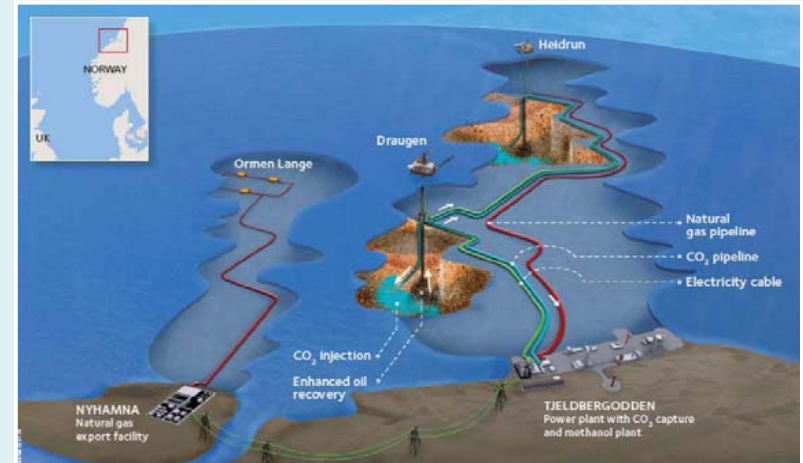
CCS at Mongstad

- The Norwegian government and Statoil launched an agreement to establish a full-scale CCS project in conjunction with the projected CHP station at Mongstad
- The technology development stage of the project will be in place in 2010
- This is a unique agreement - The decision to execute is taken!



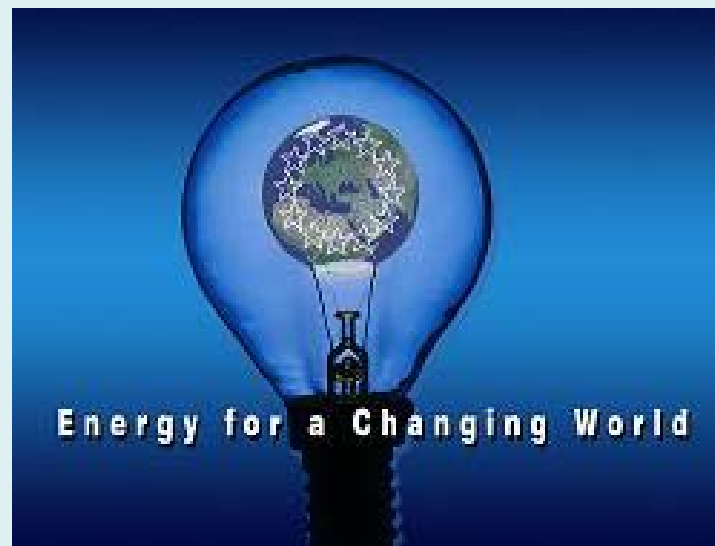
Full-scale CCS Projects

- Shell, Statoil considering the world's largest project using CO₂ for EOR offshore, *Halten CO₂*
- Planning of the CCS facility at the *Kårstø* gas-fired power plant is given high priority



EU Energy and Climate Change Package

- In order to succeed in realizing technologies for carbon free energy production we have to collaborate between borders
- The Commission will design a mechanism to stimulate the construction and operation by 2015 of up to 12 large-scale demonstrations
- The CO₂ test centre at Mongstad would fit in as one of this demonstration facilities



Conclusion

- The world is in need of concrete actions to curb CO₂ emissions
- Carbon dioxide capture and storage could play an important role
- Cooperation with the institutional and commercial players is required
- The Norwegian Government has ambitious goals regarding CCS
- I hope you will join us!

