

Poland 2006

Energy Security and Climate Change – The Norwegian perspective

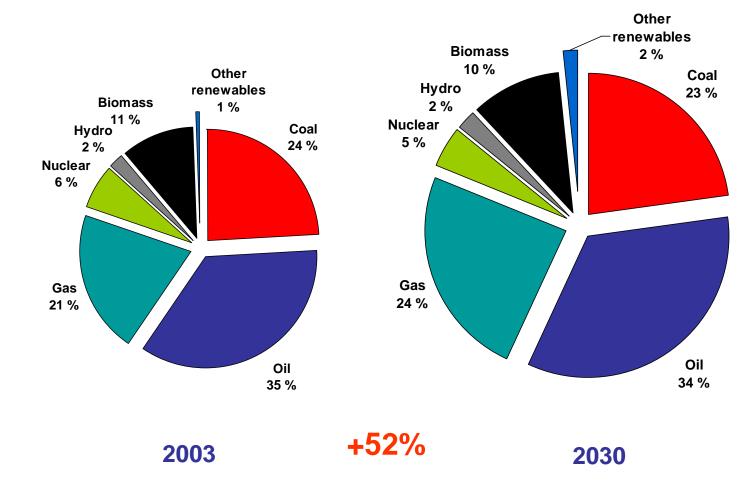
Anita Utseth, State Secretary
Ministry of Petroleum and Energy

Trondheim, Norway, 18th October 2006

Ministry of Petroleum and Energy ————

– www.mpe.dep.no

The Global Energy Challenge



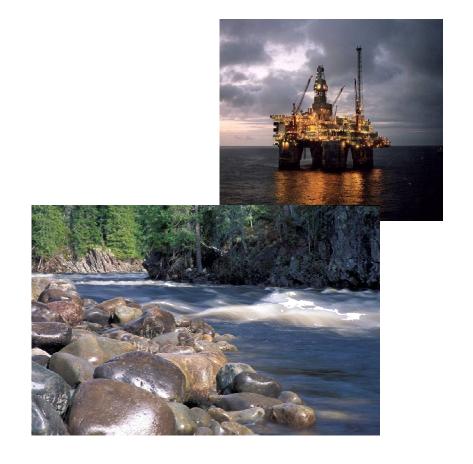
Source: The International Energy Agency

Norway – A large Energy Producer

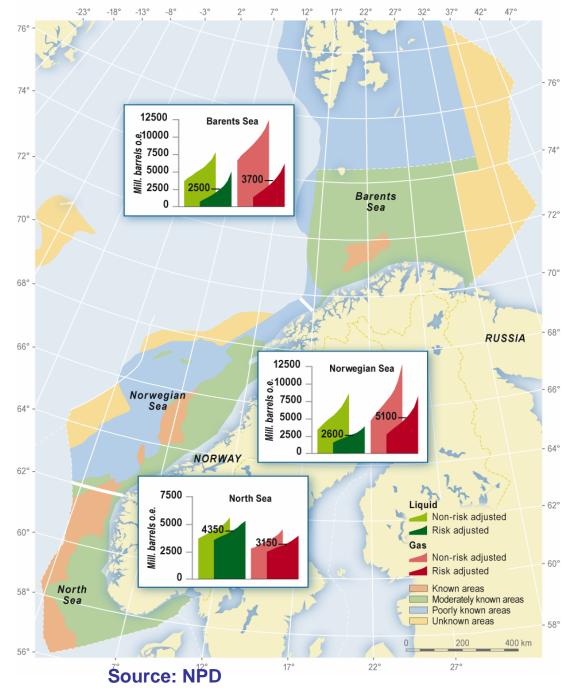
➤ 8th largest oil producer in the world

3rd largest exporter of oil and natural gas in the world

For a largest producer of hydro power in the world



Norwegian Continental
Shelf –
Large undiscovered
resources

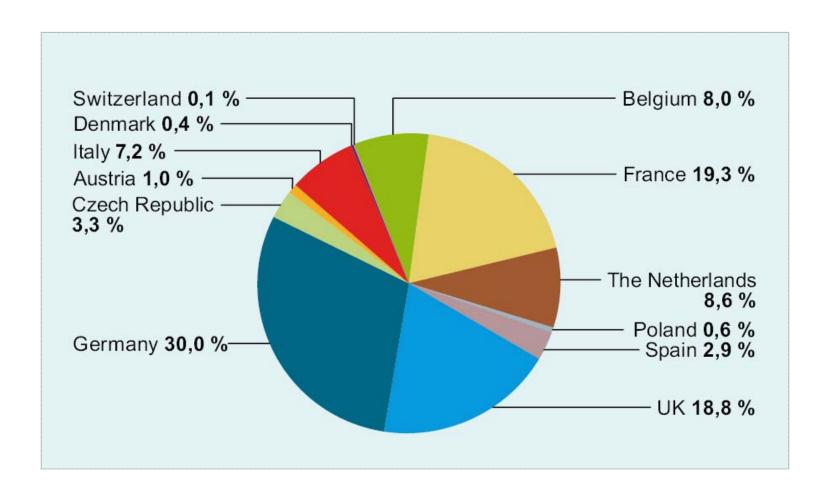


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Gas Exports from Norwegian Continental Self

A total export of 82,5 BCM in 2005

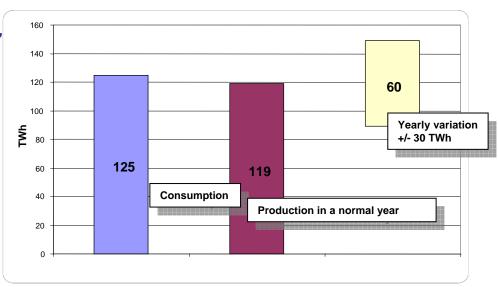


The Norwegian Perspective

 Electricity production depends on hydro power

 Small growth in production capacity over several years

 Unique access to renewable energy sources



Need for a New Energy Mix

- Initiative to change energy use and supply
 - new electricity production from additional renewable sources
 - increased use of district heating and biomass
 - energy efficiency and energy savings
- Contribute to making gas fired power plants with carbon capture and storage a reality





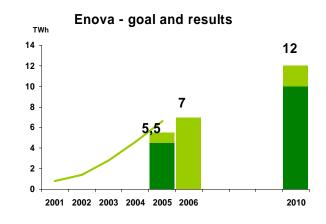
12 TWh within 2010

- 3 TWh wind power
- 4 TWh district heating based on renewables
- energy efficiency



30 TWh within 2016

Enova is the government's tool for achieving the targets

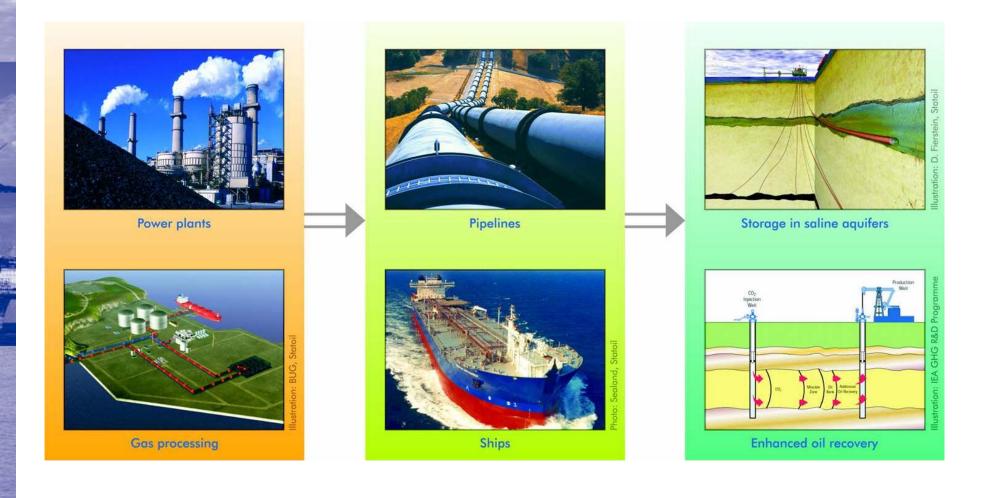


Natural Gas in the Energy Supply

- A possible gas pipeline to South-Eastern Norway and Sweden is currently being evaluated
- There has been considerable interest from the Polish side to participate in this pipeline project
- Good dialogue between Polish and Norwegian authorities in this process



CO₂ Capture and Storage (CCS)



CCS Projects in Norway

 The Norwegian government and Statoil will establish CCS in conjunction with the projected CHP plant at Mongstad



Kårstø



International 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 UK energy ministers on CCS, including establishment of a North Sea Basin Task Force











Conclusion

- A sustainable energy future does not emerge without a substantial effort
- R&D important
- Need for a mix of energy technologies:
 Energy efficiency, renewables and carbon dioxide capture and storage



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