Petroleum Resources as the Major Driving Force in the Arctic

Odd Roger Enoksen
Minister of Petroleum and Energy
Arctic Frontiers Conference 22 January 2007
Energy use 1990-2020

growth in energy demand: 40 % from 2005 to 2020, 80 % from fossile energy

source: PIRA Energy
Global emissions –
What lies in front of us?

Global emissions of climate gases are increasing:
IEA reference scenario

Source: IEA
**CO₂ capture and storage**

20 - 28 percent of overall climate gas emission reduction within 2050 (Source: IEA)

Source: Statoil Sleipner

Source: Statoil

Ministry of Petroleum and Energy
Norwegian Petroleum Production

- Gass / Gas
- Kondensat / Condensate
- NGL
- Olje / Oil

Million Sm³ o.e.
Emissions from offshore petroleum production

Source: OLF
A strategy for the north – a new perspective
Integrated Management of the Marine Environment in the Lofoten - Barents Sea area

- Eco-system based management of the natural resources in Lofoten - Barents Sea

- Main conclusion: The Barents Sea environment is in a satisfactory state

- Places a sound basis for a long-term exploitation of natural resources in the Barents Sea
  - 19th Licensing Round first implementations of the management plan

- Dynamic process, first revision in 2010
Field development - Snøhvit and Goliat

- Snøhvit LNG development to be completed by end of 2007
- Possible production capacity upgrade at Snøhvit LNG (train II)
- Field development plans for Goliat oil discovery ongoing
Licensing Policy in The Barents Sea
Emerging Frontier Area

- Opened for exploration in 1980
- First discovery in 1981
- 70 wells drilled

- Undiscovered resources:
  Total: 6.3 BBOE

- Focus:
  - Development of infrastructure in mature parts
  - Update information in frontier areas

The area of overlapping claims equals the size of the Norwegian part of the North Sea (185 000 km²)
Technology and The Arctic

Some challenges are the same:
- efficient exploration
- cost reduction
- increased recovery
- new subsea and downhole production systems

Some challenges are specific
- extreme climate
- ice
- highly remote resources
- environmental sensitivities
- logistics
Sustainable Growth and Development in The High North
Thank you for your attention!