



Policy and Plans for Carbon Capture and Storage

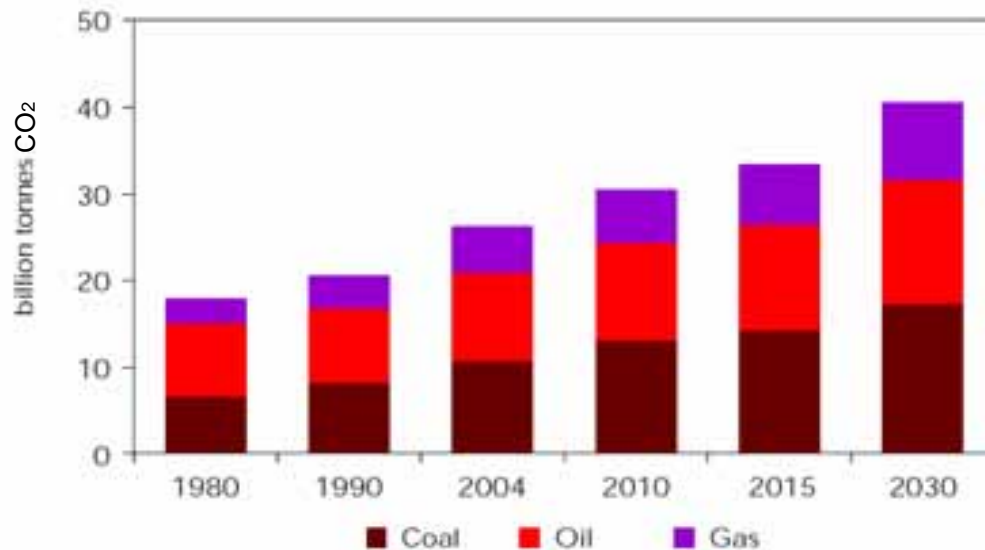
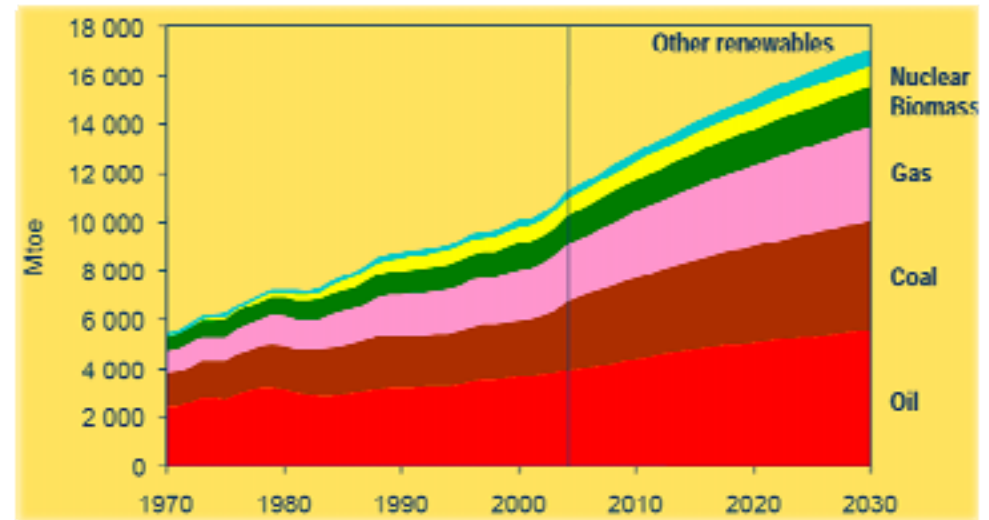
- The Norwegian View

September 9th, 2008

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Ministry of Petroleum and Energy

The World Needs Energy

- Global energy demand will increase by 55% by 2030 - 84% fossil fuels
- This is not sustainable



- CCS is a solution
- In addition to other measures such as energy efficiency and increased use of renewable energy sources



CAPTURE
for example



Power plants



Gas processing

Illustration: BUC, Statoil

TRANSPORT



Pipelines



Ships

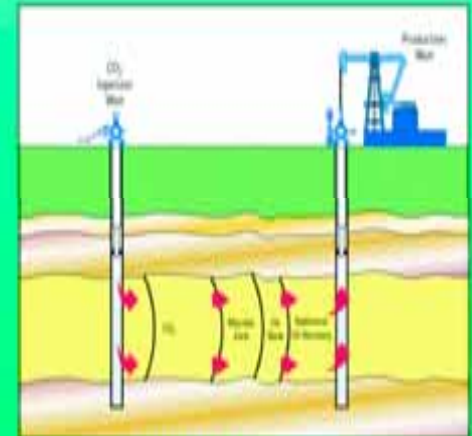
Photo: Statens, Statoil

STORAGE
for example



Storage in saline aquifers

Illustration: D. Ferstein, Statoil

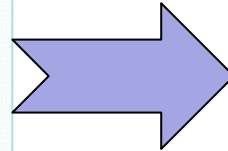


Enhanced oil recovery

Illustration: EA OPO R&D Programme

International Co-operation

- Share experiences
- Cooperation on research and pilots
- Create incentives and a regulatory framework

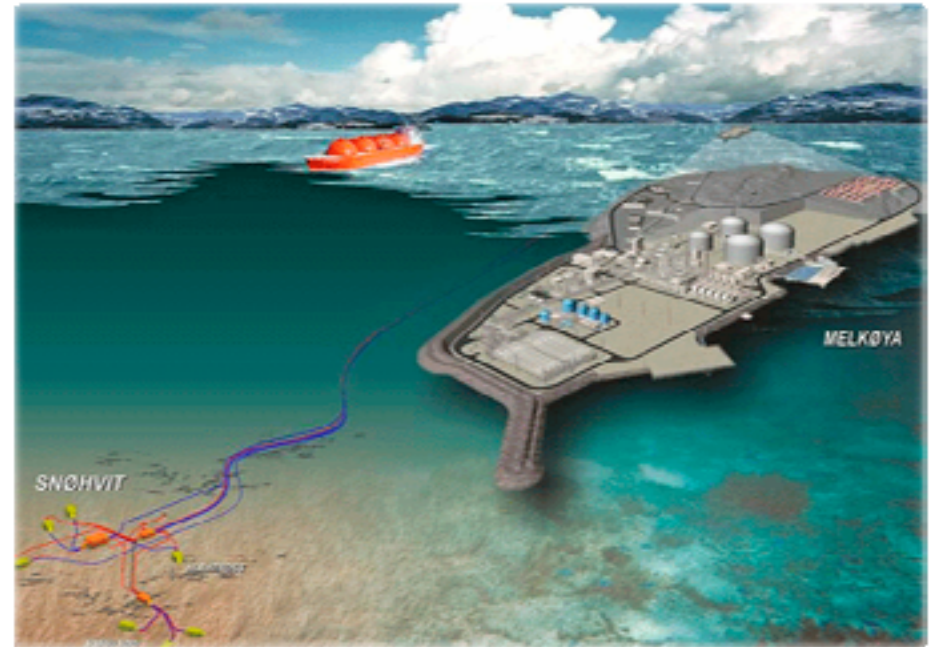
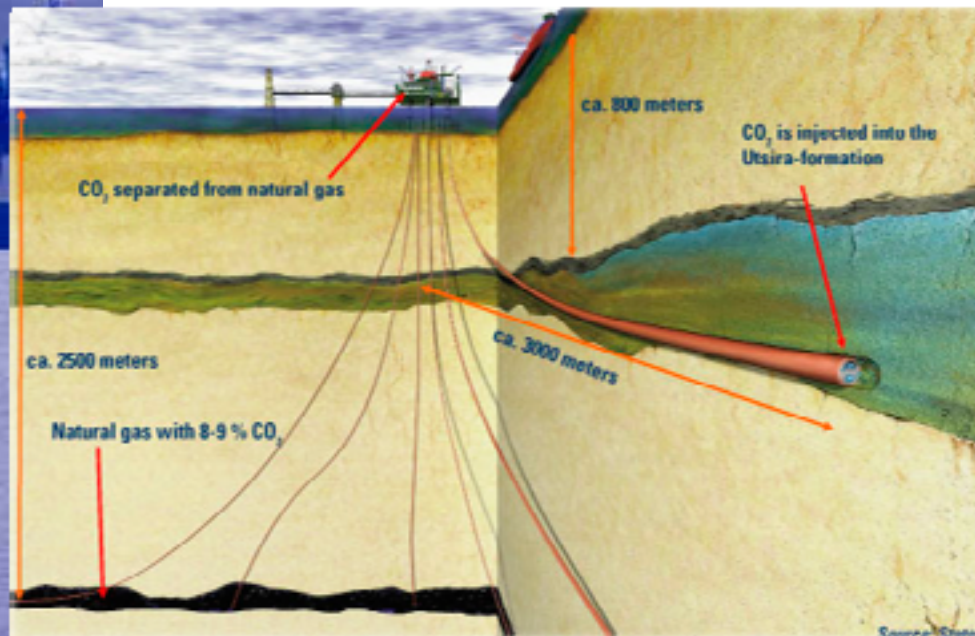


- Gain public understanding and acceptance
- Make widespread dissemination and deployment a reality



12 years of Storage Experience on the NCS

Sleipner



Snøhvit

Source:
StatoilHydro

The Norwegian Government has Ambitious Goals

Make widespread use of carbon capture and storage a reality

- The Norwegian Government intends to:
 - cooperate with the industry
 - provide public funding
- *“All new gas fired power plants shall be based on technology for CO₂ capture”*



Project Plans

Scope: develop, test verify and demonstrate technology in order to reduce cost and risk

1. Test Centre Mongstad

- Start-up 2011
- Capture: 100,000 tonnes

2. Large Scale Facility at Mongstad

- Start-up 2014
- Captures: 1.3 million tonnes CO₂/year

3. Kårstø

- Capture: 1 million tonnes of CO₂/year
- Existing technology will be scaled up by a factor of 10



Source: StatoilHydro



To Sum Up

Carbon capture and storage is necessary measure to combat climate change

We need financial incentives to promote the dissemination and deployment of this technology

International cooperation is key both in R&D and development of international standards

Thank you for your attention