Opportunities on the Norwegian Continental Shelf

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16 – 19 June 2014
Outline

- Status – Norwegian continental shelf
- Yet to find resources
- Licensing rounds
- Access to data
- Main messages
The role of Norwegian Petroleum Directorate – NPD
The Norwegian Continental Shelf (NCS)
Norway as an oil and gas exporter

Oil

- Saudi Arabia: 432.6
- Russia: 351.4
- UAE: 126.6
- Kuwait: 117.8
- Nigeria: 110.0
- Iraq: 109.1
- Iran: 91.7
- Angola: 86.8
- Venezuela: 83.5
- Norway: 82.2

Gas

- Russia: 158.4
- Qatar: 117.8
- Norway: 99.6
- Canada: 50.3
- Algeria: 45.5
- Turkmenistan: 37.0
- Indonesia: 31.7
- Malaysia: 28.7
- Netherlands: 24.7
- Australia: 21.2

Source: BP Statistical Review 2013
Resource growth and production – 2007-2030

The chart illustrates the growth and production of resources from 2007 to 2030. The x-axis represents the years from 2007 to 2030, while the y-axis shows the million cubic meters of oil equivalent per annum. Different categories of resources are color-coded: undiscovered resources, resources in discoveries, resources in fields, reserves included sold and delivered, and resource growth. The chart provides a visual representation of how these resources are projected to grow and be produced over the coming years.
Petroleum resources on the Norwegian shelf as of 31st Dec. 2013

- Undiscovered resources: 72%
- Contingent resources in discoveries: 15%
- Contingent resources in fields: 10%
- Reserves: 2%
- Sold and delivered: 1%

Total: ~ 11 billion bbl oe

- Undiscovered: 3 - 18 billion bbl oe
- Discovered: 0 - 8 billion bbl oe

Total: ~ 58 billion bbl oe

- Undiscovered: 2 - 11 billion bbl oe
- Discovered: 5.5 billion bbl oe
- Sold and delivered: 5 billion bbl oe
The Barents Sea – Norwegian and Russian part
New area - Barents Sea South East
Norwegian Sea – deep water, sub-basalt
Upper Cretaceous – Paleogene plays

About 25 wildcat wells

Accumulated resources, million scm oe


Ormen Lange

6705/10-1 (Asterix)

6707/10-1 (Aasta Hansteen)

Trondheim

Bodo

Norwegian Sea

Deep water, sub-basalt

Upper Cretaceous – Paleogene plays
Plays in the Norwegian Sea

Modified from NPD Bulletin No. 8
Johan Sverdrup – a «giant» in a mature area
Predictable licensing system - no sign-on fees

APA 2014
Awards in Predefined Areas

APA:
• annual awards
• areas with infrastructure
• areas known from previous exploration

Numbered licensing rounds
• frontier areas
• biannual
23rd Licensing round – public consultation

Barents Sea

Norwegian Sea
Easy Access to Data

• Diskos Database
  • Operated by Landmark
  • Seismic, well data and production data

• NPD
  • NPD Fact pages
  • Well data
  • Core photos
  • Production figures
  • Data from relinquished areas
Access to data: www.npd.no

CO2 STORAGE ATLAS >>

Dry well north of the Norne field
06.06.2014: Norco, operator of production licence 484, has completed drilling of wildcat well 6608/10-16. The well is dry.

System for permanent reservoir monitoring installed on the Snorre and Grane fields
30.05.2014: Work will continue this summer and autumn on installing a seismic streamer on Snorre. A dedicated system with a seismic streamer will also be installed on Grane.

Dry well near the Troll field in the North Sea
27.05.2014: Tullow Oil Norge AS, operator of production licence 550, is about to complete drilling of wildcat well 21/2-21 S. The well is dry.

Delineation of the 35/9-6 S oil, gas and condensate discovery near the Gjøa field in the North Sea

www.npd.no
Main messages

• Mature areas are still attractive
• Increase recovery from existing fields
• The potential is greatest in the north
• There are geological and technological challenges:
  • Deep water; Norwegian Sea
  • Long distance to shore
  • Arctic conditions in parts of the Barents Sea

• NPD’s view:
  the remaining resources may contribute to a significant production for many decades

“A mind is like a parachute. It doesn't work if it is not open.”

Frank Zappa
Thank you for your attention!

For further information: Stand 3430-D

Svalbard – Temple Fiord