20 Years of storing CO2 in the North Sea
28–10–2016 Ukrainian CCS and climate forum
We are Statoil

A global energy company | Built on competence, technology and collaboration | Showing engagement for society
Key figures

**EQUITY PRODUCTION**
1,971 million
BARRELS OF OIL EQUIVALENT PER DAY IN 2015

**RESOURCES**
21 billion
BARRELS OF OIL EQUIVALENT IN RESOURCES

**ADJUSTED EARNINGS**
77 bn NOK
*AS AT Q4 2015

**OF OIL AND GAS EQUITY PRODUCTION TOOK PLACE OUTSIDE NORWAY IN 2015**
37%

**SECOND BIGGEST GAS SUPPLIER TO EUROPE**
#2

**GROWING OFFSHORE WIND BUSINESS SUPPLYING >600,000 UK HOMES**
>600,000
Shaping the future of energy

Competitive at all times

Transforming the oil and gas industry

Providing energy for a low carbon future
Statoil’s CCS track record in Norway

- **Sleipner CCS**
  - Operational since 1996
  - 20 years of successful operations
  - Building confidence in CCS
  - 20 Mt CO₂ stored

- **Snøhvit CCS**
  - Operational since 2008

- **Technology Centre Mongstad (TCM)**
  - Operational since 2012
Sleipner

- Injection start 1996
- High CO2 content
- Approx. 16 Mt stored
- Amine based capture
- Saline formation storage
- 800 - 1000 mt depth
- Tie-in of neighbour fields
Safe storage demonstrated

• Extensive seismic monitoring
• Many research projects
• Testing monitoring technologies
• Model improvement
Snøhvit

- Injection start 2008
- Production of LNG
- Approx. 4 Mt stored
- Onshore processes
- Amine based capture
- Saline formation storage
- Approx. 2000 mt depth
Successful subsea operations

- Well intervention required
- CO2 stored initially in the Tubåen Fm. (2008–11) and then in the Stø Fm. (2011–)
- New well being drilled
- Stable injection of ~1800 ton/day
TCM

- World biggest test site for CO$_2$ capture
- Post comb. natural gas
- Connect cracker
- Operational 2012
- Established benchmark
- Test Centre Network
Track record

• Mature technology – develop competition
• 4 Suppliers performed test campaign
• Current testing program ION
• Developed methodology emissions to air
• Design improvements, efficiency, corrosion mitigation
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