



Statoil

# 20 Years of storing CO<sub>2</sub> 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\*

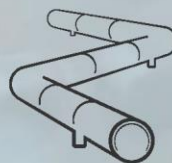
77 bn NOK

\*AS AT  
Q4 2015



37 %

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



# 2

SECOND BIGGEST  
GAS SUPPLIER TO  
EUROPE



>600,000

GROWING OFFSHORE WIND  
BUSINESS SUPPLYING  
>600,000 UK HOMES

# Shaping the future of energy

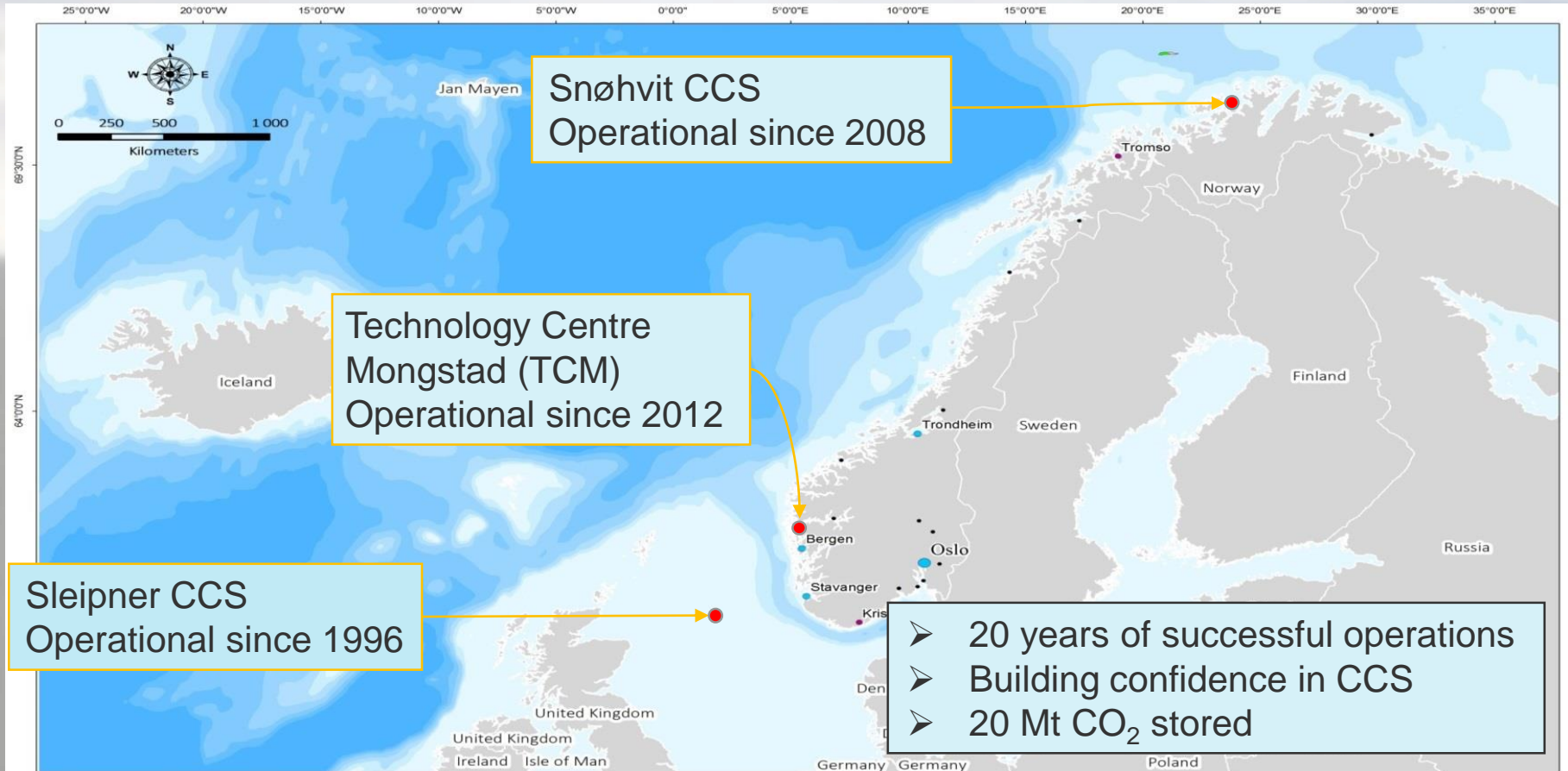
Competitive  
at all times

Transforming the  
oil and gas industry

Providing energy for  
a low carbon future



# Statoil's CCS track record in Norway





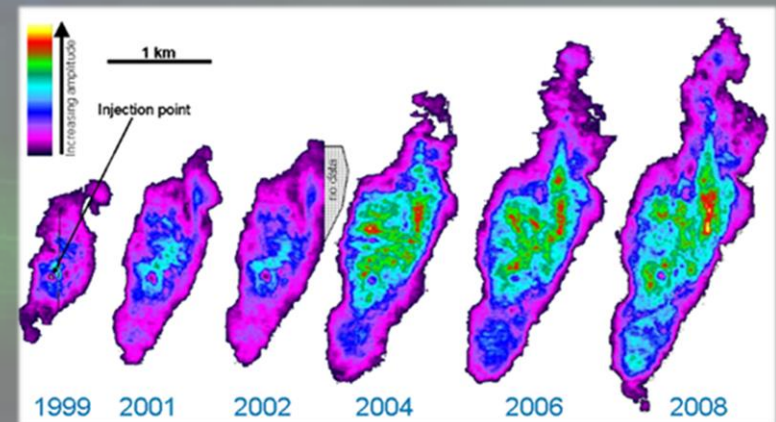
# Sleipner

- Injection start 1996
- High CO<sub>2</sub> 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

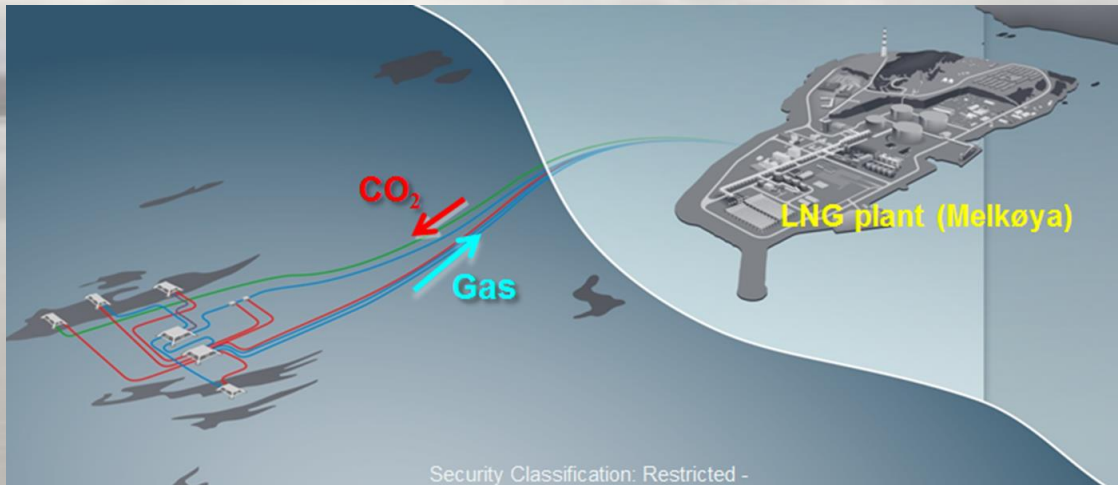
- Injection start 2008
- Production of LNG
- Approx. 4 Mt stored
- Onshore processes
- Amine based capture
- Saline formation storage
- Approx. 2000 mt depth





# Successful subsea operations

- Well intervention required
- CO<sub>2</sub> stored initially in the Tubåen Fm. (2008–11) and then in the Stø Fm. (2011–)
- New well being drilled
- Stable injection of ~1 800 ton/day



# TCM

- World biggest test site for CO<sub>2</sub> 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

Picture courtesy: Technology Centre Mongstad



# Statoil. The Power of Possible

20 Years of storing CO<sub>2</sub> in the North Sea

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