

Statoil CCS and NORDICCS

Bjørn Berger, November 15th, 2015





Statoil is an international energy company with operations in 37 countries. Building on 40 years of experience from oil and gas production on the Norwegian continental shelf, we are committed to accommodating the world's energy needs in a responsible manner, applying technology and creating innovative business solutions.





In Statoil Research and technology we are now:

✓730 employees ✓ Spending: NOK 2,93 billion a year ✓ 50% outside Statoil ✓ Having a global approach





Statoil and CCS



Response

- CCS
 - vital part of emission reduction scenarios
 - to de-carbonise fossil fuels
- Statoil CCS strategy
 - preparing for low carbon transition
 - pro-active industrial approach to energy realities
 - competence and experience to be employed
 - building strategic knowledge to ensure our position and optionality



CCS is a feasible technology

- CO₂ storage has been successfully demonstrated
- CO₂ capture technologies available
 - Capture cost need to be reduced significantly
 - Test Center Mongstad experience contributes significantly
- Incentives required to make CCS commercially attractive
 - CO₂ tax in combination with CO₂ EOR
- Uncertain outcome of gas/coal/renewables competition





But there is no CCS breakthrough yet.....



Statoil Renewal scenario need 3 of these each week from 2015 to 2040





The lack of CCS success is not due to cost alone



- Complex business model
- Public resistance to storage
- Lack of incentives
- Perceived as temporary
- EX solution



CCS challenges addressed by NORDICCS

Complex business model

Perceived as temporary solution

- Clearly shown feasable NORDIC scenarios
- Identified technology gaps

- Public resistance to storage
- Lack of incentives



CCS activities





