

Norwegian Ministry of Petroleum and Energy

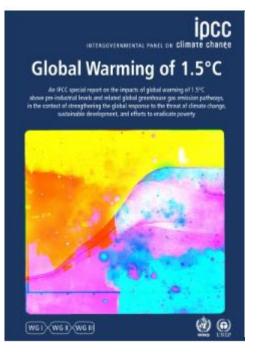
Growing CO₂ Capture and Storage for rapid & significant emission reductions

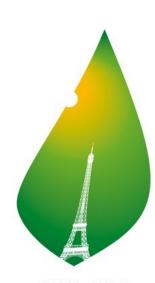
COP25 side event Pathways to a sustainable future; governance of CO₂ removal & mitigation strategies for industry

11 December 2019, Madrid



CCS is a necessary part of the solution





COP21 · CMP11 PARIS 2015 UN CLIMATE CHANGE CONFERENCE



SUSTAINABLE GOALS



CCS in Norway – Sleipner and Snøhvit

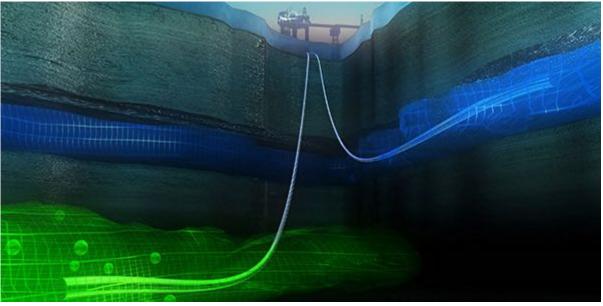


Foto: Alligator film BUG - Statoil

In total, the CCS projects currently in operation in Norway reduce Norwegian CO₂ emissions by 3-4% each year

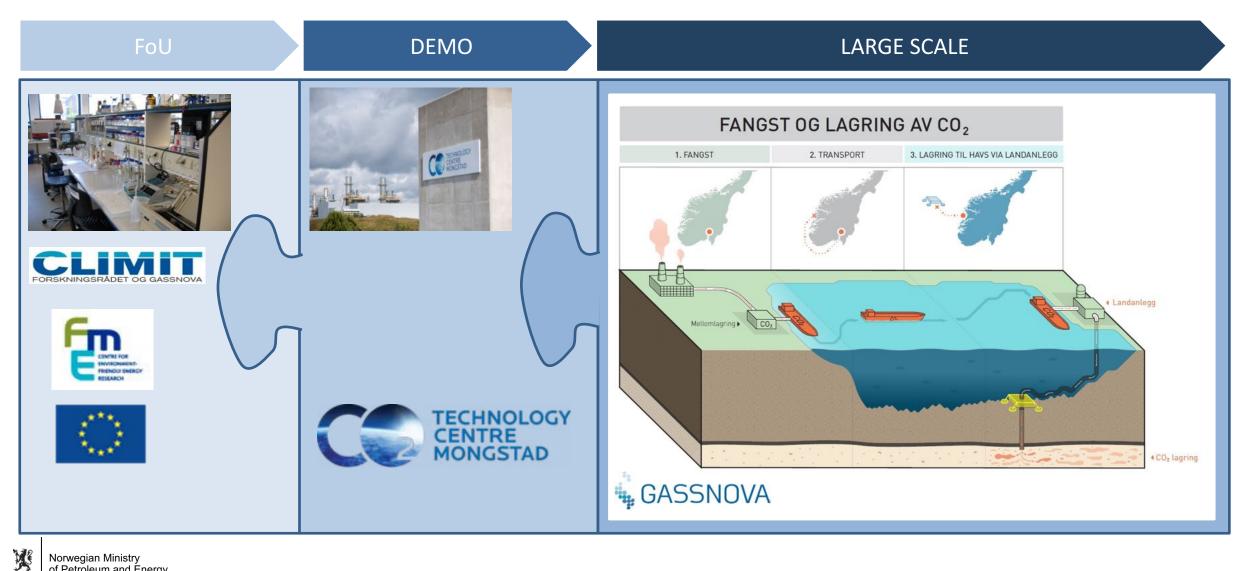
Sleipner:

- The CCS project came into operation in 1996
- Stores around 1 Million tonns of CO₂ per year
- In 2014, CO₂ from the Gudrund field is also stored at Sleipner

Snøhvit:

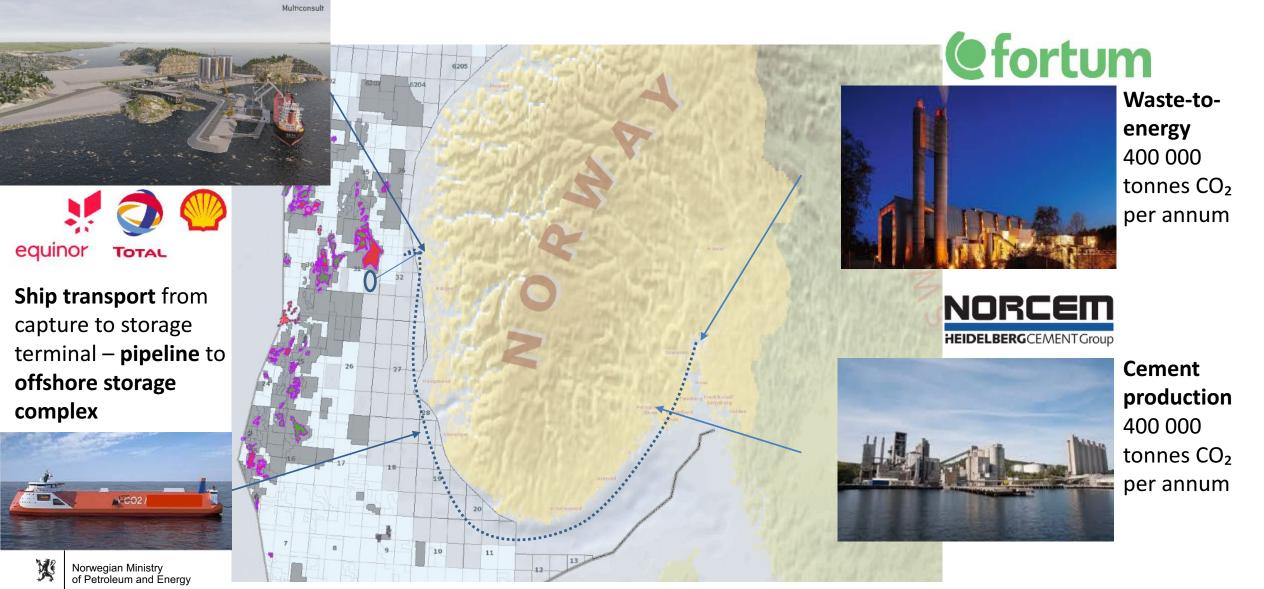
- The CCS project came into operation in 2007
- Stores around 700'000 Tonns of CO₂ per year

Norwegian CCS-strategy – a broad approach



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The full-scale CCS project in Norway



Project's aims

"...realise a cost-effective solution for full-scale CCS in Norway, provided that this incites technology development in an international perspective". Solberg Government's Political Platform

Our aim for a CCS project in Norway:

- Demonstrate a full chain of capture, transport and storage of CO₂ – with acceptable costs
- Demonstrate CO₂ capture in existing industry
- Provide cost and risk reductions for subsequent CCS projects
- Establish a flexible storage solution with excess capacity



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Challenges

Final Investment Decision - Crucial Aspects:

- 1) Results from FEED, including quality, costs, risks,
- 2) Expected learning effect vs. resources spent: Will the Norwegian CCS project make a significant contribution to international use of CCS?
- 3) Political acceptance and support
- 4) Sharing of costs and risks
- 5) The London Protocol

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Thank you for your attention!

