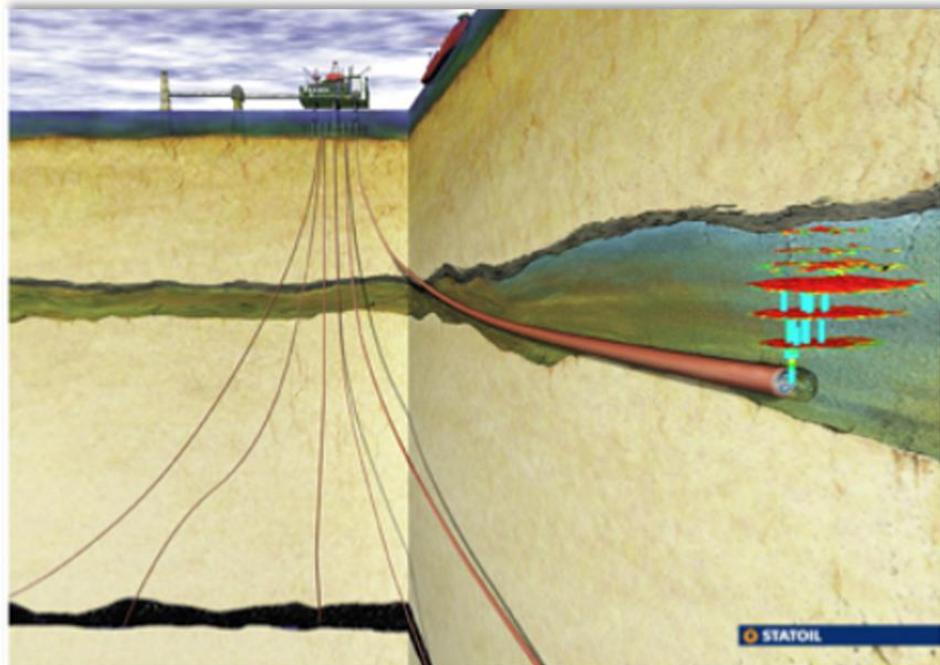


Growing CO₂ Capture and Storage for rapid & significant emission reductions

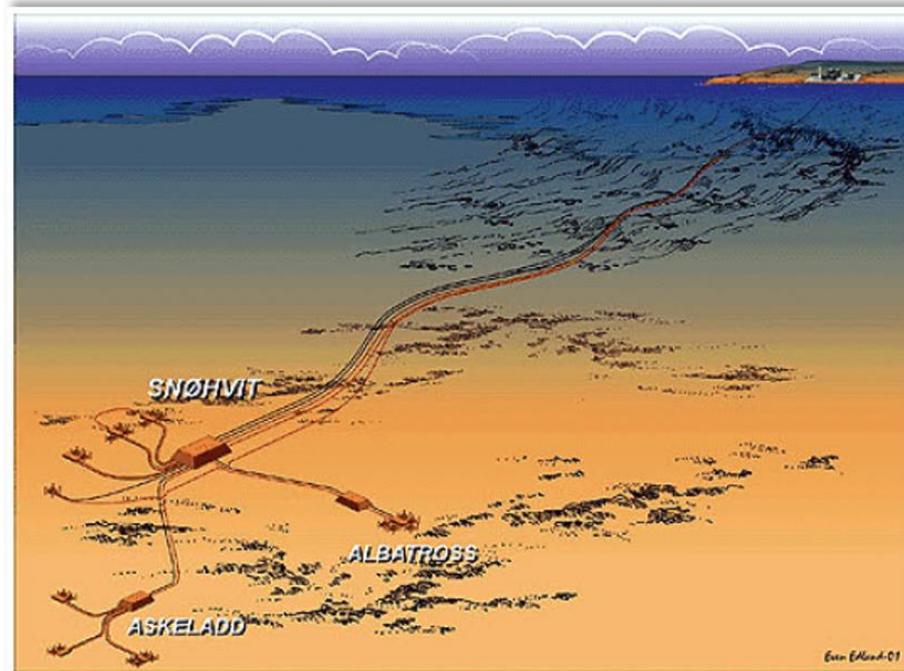
Eva Halland, Norwegian Petroleum Directorate
EC Pavillion November 1st. 2021

25 years experience with CO₂-storage offshore Norway

26 Million tonnes of CO₂ permanently stored deep under the seabed



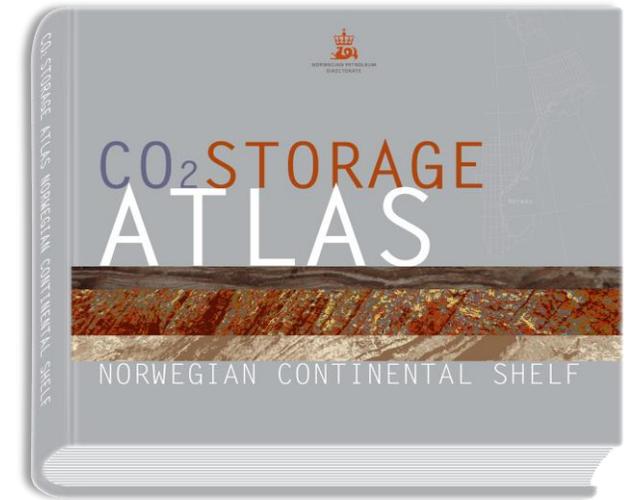
The Sleipner gas field in the North Sea. This is the world first offshore CCS project. Today, three hydrocarbon fields capture CO₂ through the SleipnerT facility and inject through the same well in the aquifer in Utsira formation.



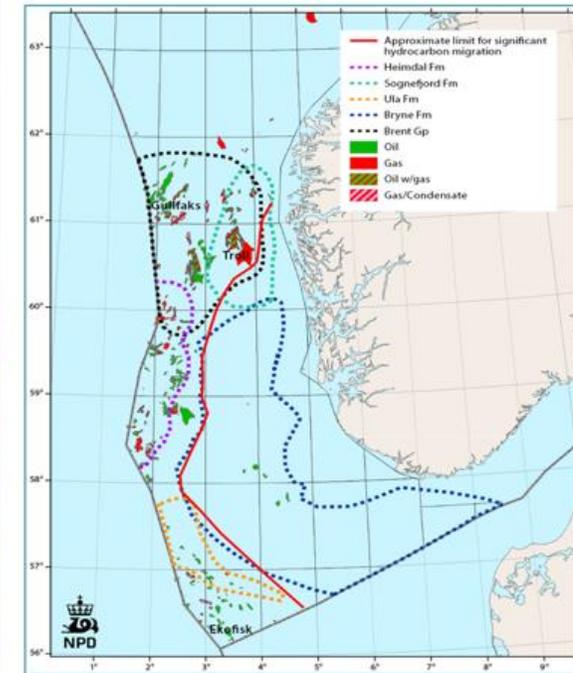
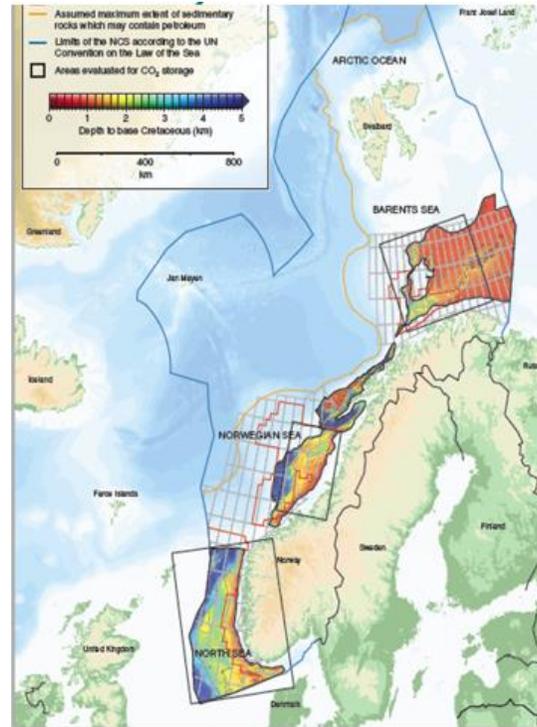
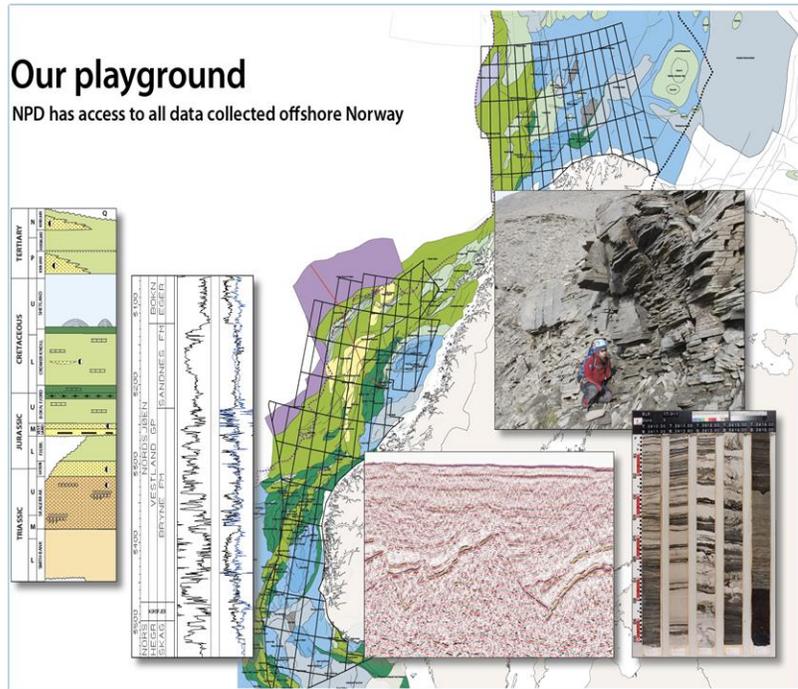
The Snøhvit gas field in the Barents Sea. The well stream, with natural gas, CO₂, NGL and condensate, is transported in a 160-kilometre pipeline to the facility onshore. The gas is processed and cooled down to liquid natural gas (LNG). The CO₂ is separated and returned to the field by pipeline for reinjection into a formation in the same field.

The Norwegian CO₂-storage atlas

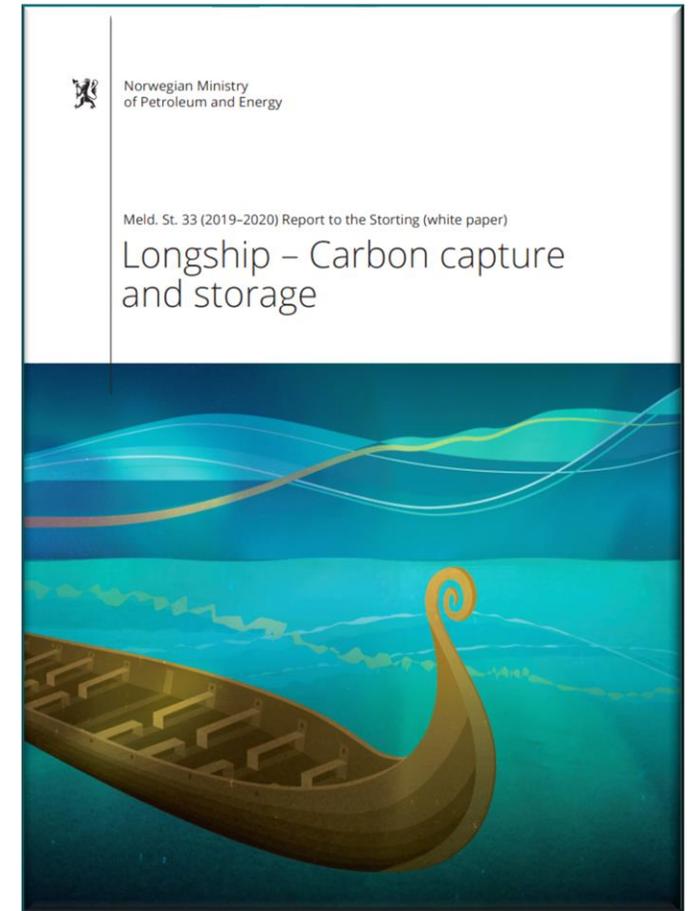
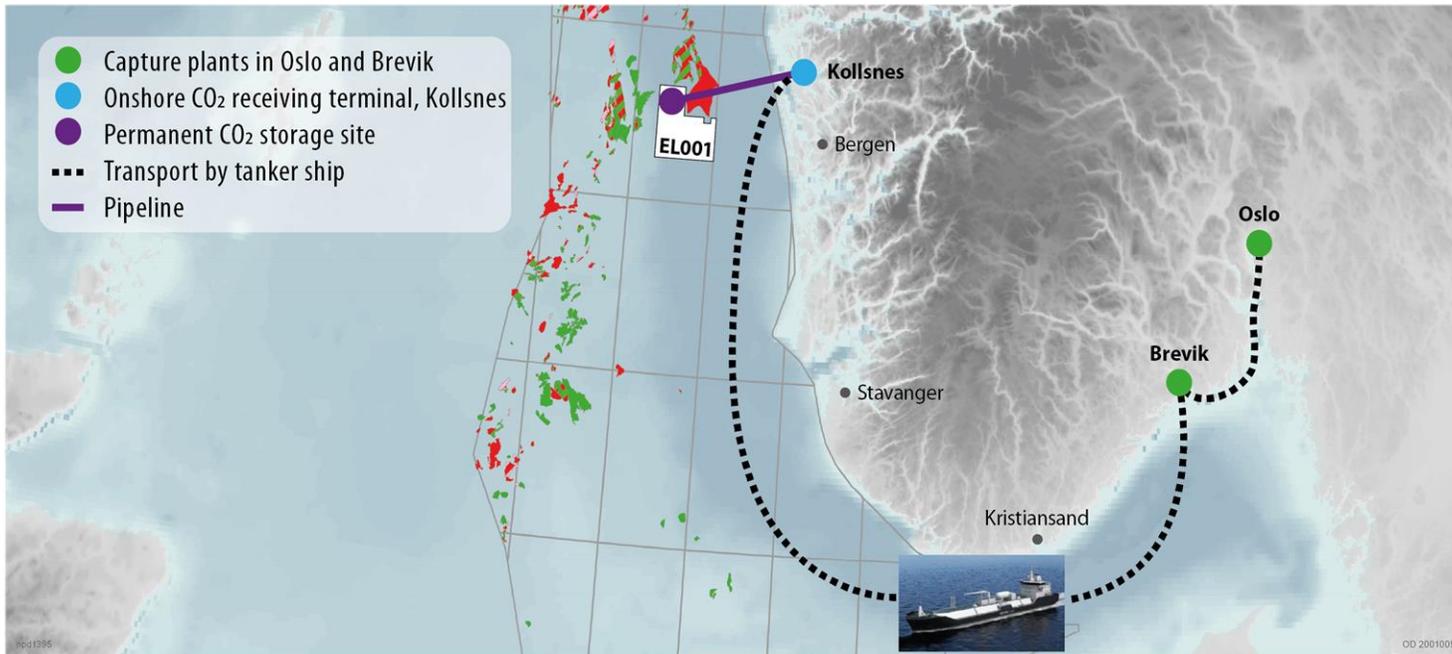
Safe and efficient storage of CO₂



Finding CO₂ storage locations based on access to data from 50 years of petroleum industry

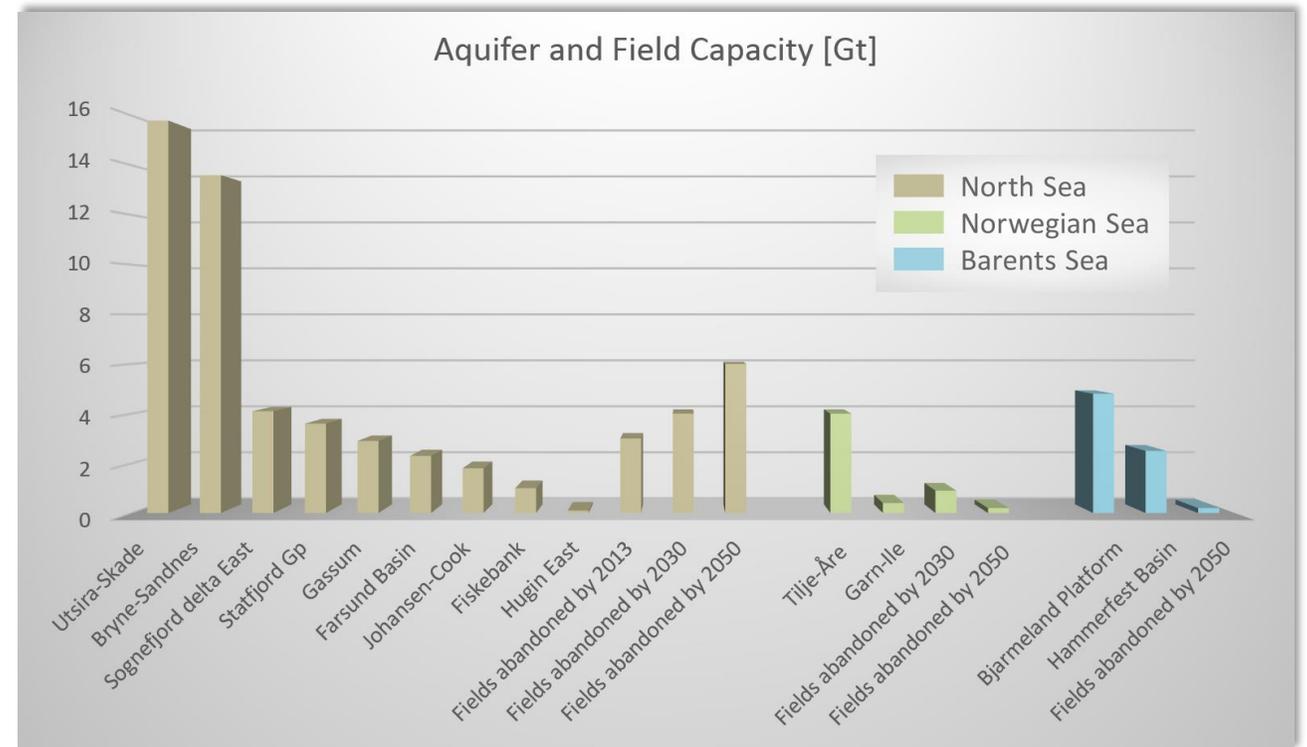
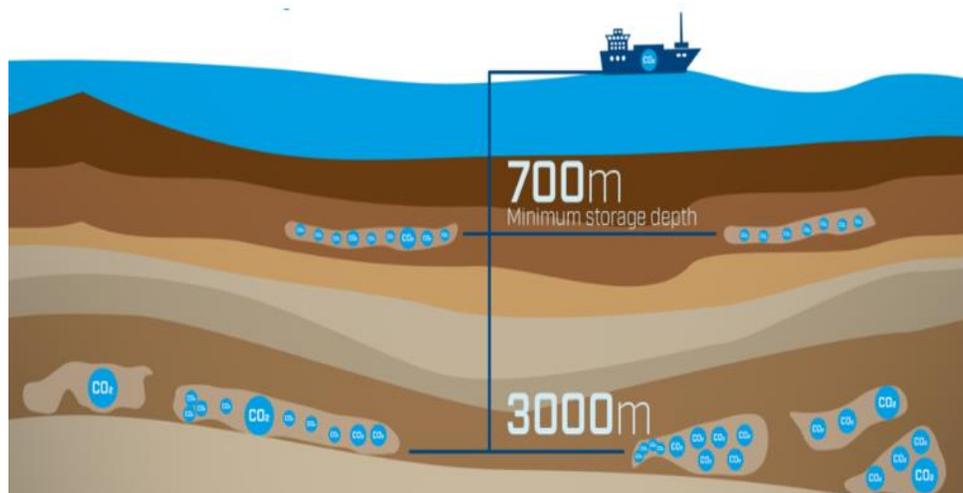


Longship- a full scale CCS demonstration project



- Accelerate decarbonisation
- Develop a full-scale CCS value chain in Norway by 2024
- Contribute to developing technology for capture, transport and permanent storage of CO₂
- Facilitate a cost-effective solution for full-scale CO₂ management
- Demonstrate that CO₂ management are safe and possible
- Facilitate learning and cost reductions
- Facilitate business development
- Demonstrating the potential of this decarbonisation approach to Europe and the world

Storage of CO₂ on the Norwegian Continental Shelf is safe and available

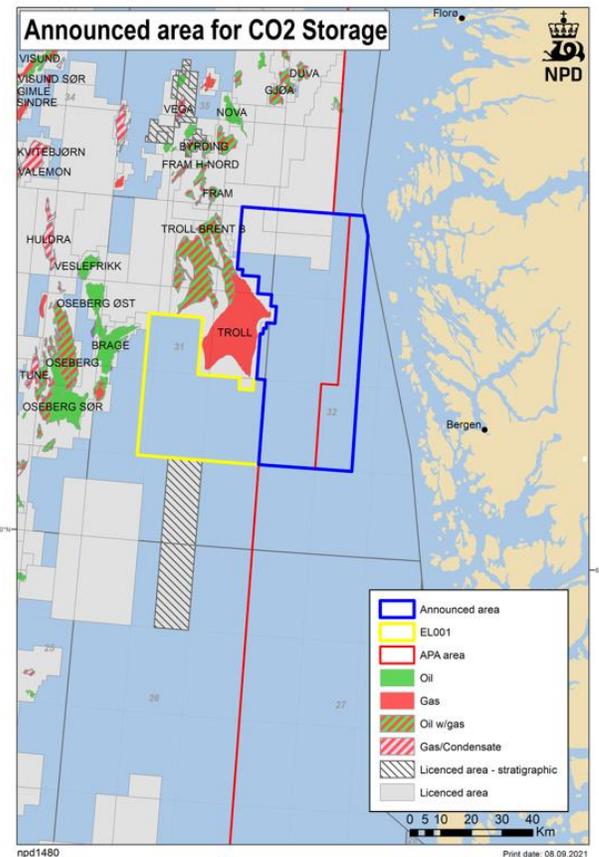
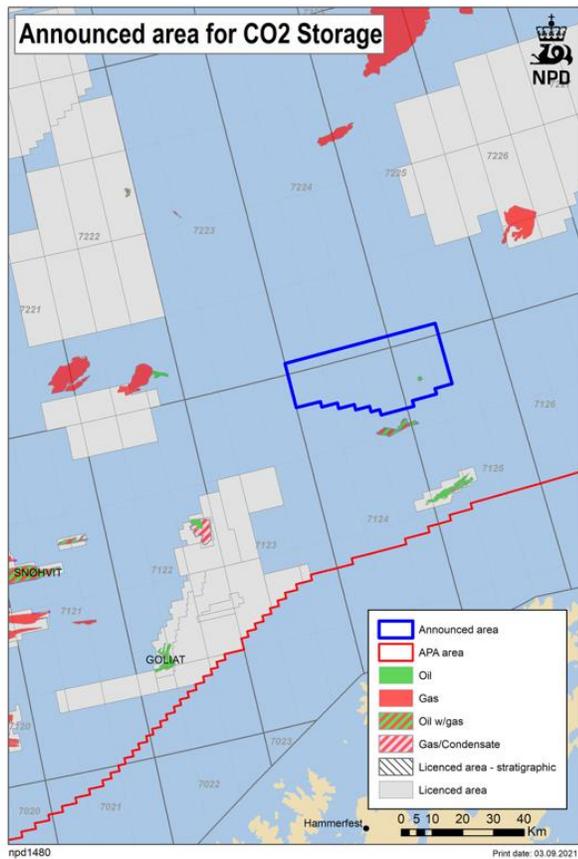


- Development phase: 1,3 Gt
- Exploitation phase: 47 + 25 Gt
- Exploration phase: 11 Gt

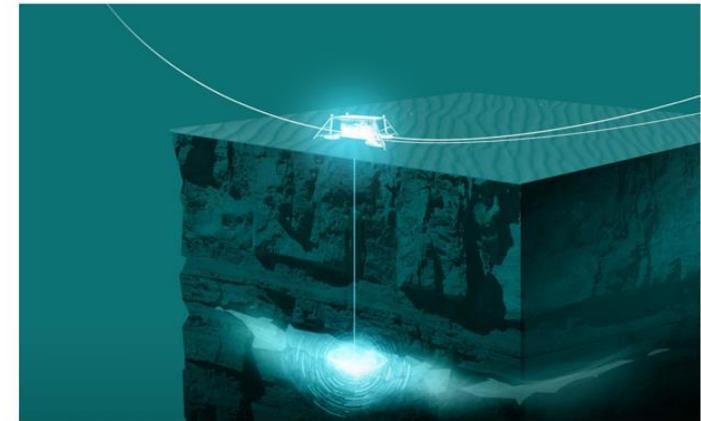
New areas for CO₂ Storage Creating a future for CCS



Application deadline Desember 9th 2021



Guidelines for application letter and
company information



Award of area for storage of CO₂-2 on the
Norwegian continental shelf 2021



Safe storage of CO₂ on NCS

- **We have the knowledge:** Through 50 years of the oil and gas industry on the Norwegian continental shelf, we have mapped, collected and interpreted geo-data
- **We have the instruments:** The information from the oil industry gives us a good overview of the reservoirs, we set requirements and have solid regulations to follow up
- **We have the experience:** CO₂ has been injected on the Norwegian shelf for 25 years - which we monitor closely
- **We have a huge potential:** Our mapping and evaluation show that there can be capacity to store as much as 80 billion tonnes of CO₂ offshore Norway.
- **It's ready now:** CCS is a key part of meeting our climate targets and decarbonising the industry and the knowledge and technology is ready now.

Thank you for your attention!

npd.no
factpages.npd.no/no
norskpetroleum.no

