

Norwegian CCS in brief

Norway has extensive experience with CCS, both capture, transport, offshore storage and injection/monitoring with projects like Sleipner and Snøhvit having injected CO₂ successfully for more than 2 decades.

In 2010 Norway established a large-scale carbon capture demonstration facility (Technology Centre Mongstad - TCM). Several new well-stream and post-combustion capture technologies have emerged from this facility.

Northern Lights JV is responsible for developing and operation of the CO₂ transport and storage facilities in the Longship project. This is the Norwegian Government's full-scale carbon capture and storage project where Equinor, Shell and Total Energy are participants. This cross-border, open-source CO₂ transport and storage infrastructure network with CO₂ storage permanently underground, will be the first full scale project. CO₂ will be captured from Norcem Brevik (cement production) and hopefully from Fortum Oslo Varme (waste-to-energy). Phase one will be completed in mid-2024 with a capacity of up to 1.5 mtpa CO₂, but could be extended to 5 mtpa.

Norway has suppliers and competence covering the complete value chain from carbon capture, transportation, storage and utilization. The first project with capture, subsea solutions and storage is the Sleipner project from 1996 and later also at the Snøhvit field in North Norway. The long offshore activity has given Norway exceptional competences in:

- Geoscience & reservoir
- Well construction & operations
- Subsea systems, marine operations & transportation
- Platform, floating production systems & onshore plants

