

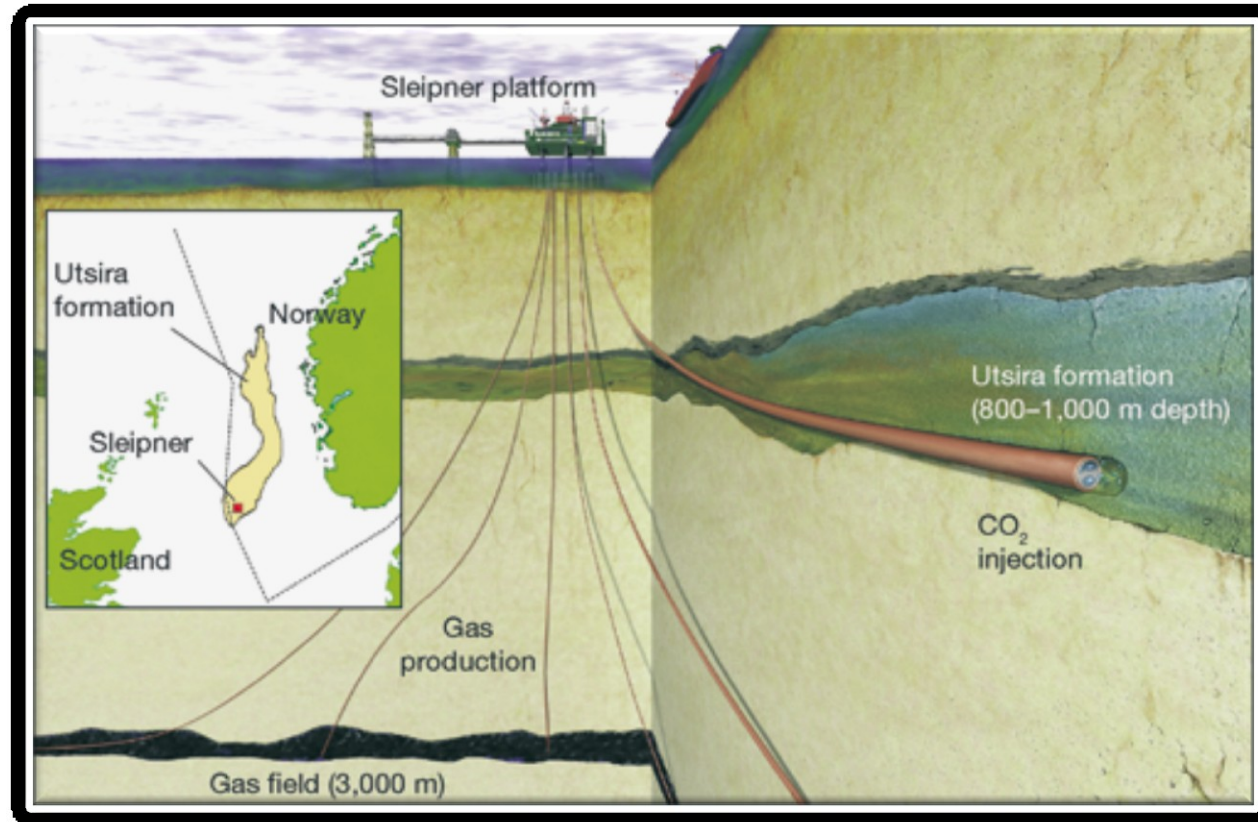
Carbon Capture and Storage in Geological Formations as Clean Development Mechanism Project Activity

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Norway's experience with CO₂ storage

- **The Sleipner field:** 1 million tonnes/CO₂ stored annually since 1996
- **The Gudrun field:** 1.1 million tonnes/CO₂ to be injected from the Sleipner installation during field life of Gudrun.
- **The Snøhvit Field:** 700,000 tonnes/CO₂ injected and stored annually.



Use Existing Modalities and Procedures

- Use existing CDM modalities and procedures
- Exception is to be made for the CCS specific issues not covered by the existing CDM modalities and procedures, this would mainly relate to the storage complex
- CCS CDM specific issues: inter alia selection criteria, risk assessment, monitoring plans and provisions for addressing liability



Site Selection Criteria

- No significant risk of leakage



- Based on thorough analysis and assessment of
 - geology and geophysics
 - hydrogeology
 - geochemistry
 - seismicity
 - potential pathways for physical leakage or seepage
 - storage capacity





Risk & Safety Assessment

- Already a requirement under the CDM
- International standards for risk and safety assessment exist
- Will form the basis for determining the project boundary and developing the monitoring plan
- Need to be documented in full in the PDD
- During closure of the CO₂ storage activity – risk assessment carried out to establish that the risk levels are acceptable

Monitoring Plan

- Already a requirement under the CDM
- Stringent monitoring plans shall be in place and applied during and beyond the crediting period
- Cover the project as defined by the project boundary
- Special attention given to the CO₂ storage complex and the monitoring plan shall address any possible seepage/physical leakage pathways



Liability

- In the PDD:
 - Clearly defined liability for the stored CO₂ in the short, medium and long term
 - Binding regulatory provisions should be in place at the national level
- For the short to medium term liability should as a rule rest with the PPs
- Post-closure/long term should be agreed upon by the PPs and the host country and approved/verified by the DNA

