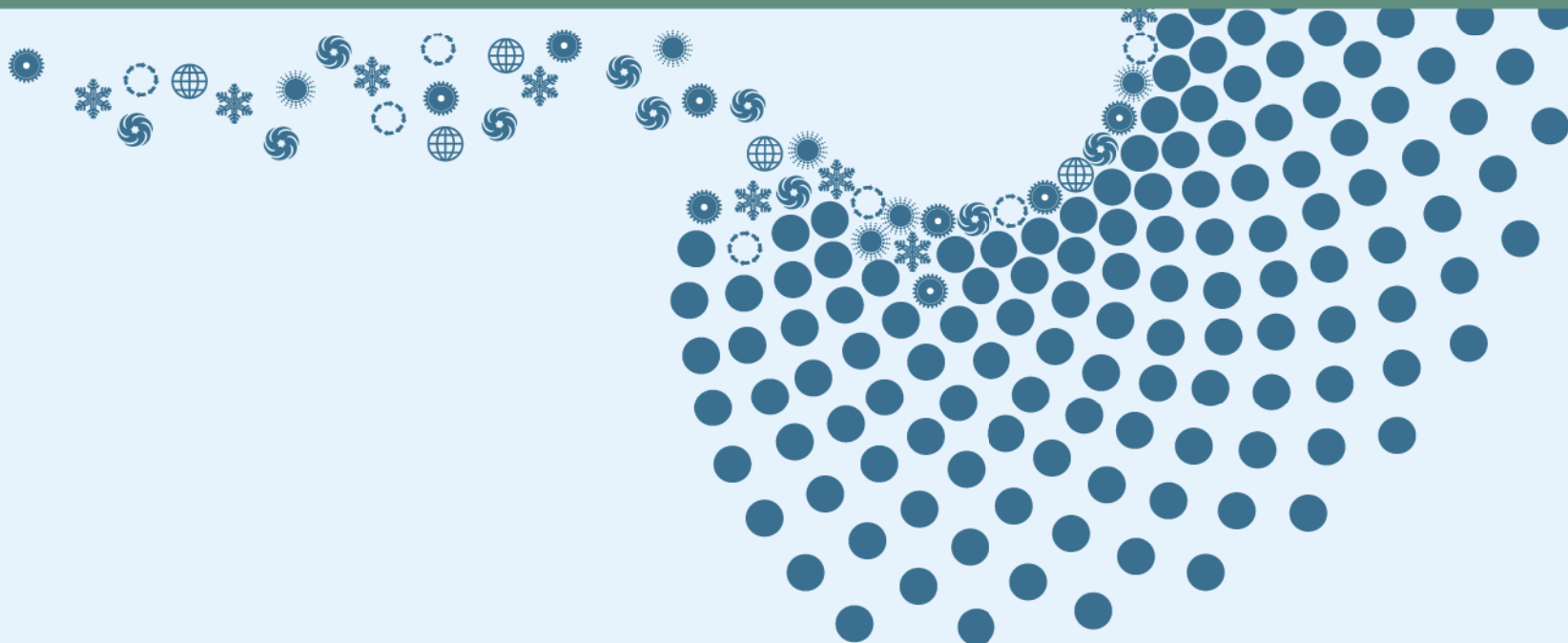


Øyvind Christophersen, Climate and Pollution Agency, Norway
CCS network , Paris, Jan 2010

CO₂-storage in Norway





CCS projects i Norway

In operation: Sleipner (1996) and Snøhvit (2008)

**Test Center Mongstad (TCM)- capture pilot –
2011-12**

**Mongstad gas power plant- full scale CCS in
2014+**

**Mongstad refinery cracker: time schedule under
negotiation**

**Kårstø- gas power plant , CCS scheduled for
2014 (now being postponed)**

Norwegian Pollution Control Act

Application for an emission permit:

- Emissions from the capture unit
- Characteristics of the storage site
- Characterisation of the CO₂ -stream
- Documentation of the geological formation's suitability for CO₂ -storage, consequence assessment, risk assessment.
- Injection project design and operation
- Monitoring plan

Capture readiness

- possible to require capture-readiness according to the Pollution Control Act
- Norway has required capture-readiness for specific facilities
- *in the emission permits for gas power stations such as Kårstø* it is required that they should be designed to make later retrofitting of CCS equipment possible

Describing the Sleipner-case in the national inventory report to the UNFCCC

- Storage site selection and characterisation
- Methods for modeling and monitoring the injected CO₂
- Results from monitoring
- All evidence and monitoring indicate that CO₂ stored in the Utsira formation is not reaching the atmosphere.
- CO₂ stored in the Utsira formation is not reported as an emission
- The reports are reviewed by review teams from the UNFCCC

EU ETS

Climate and Pollution Agency competent authority for ETS in Norway