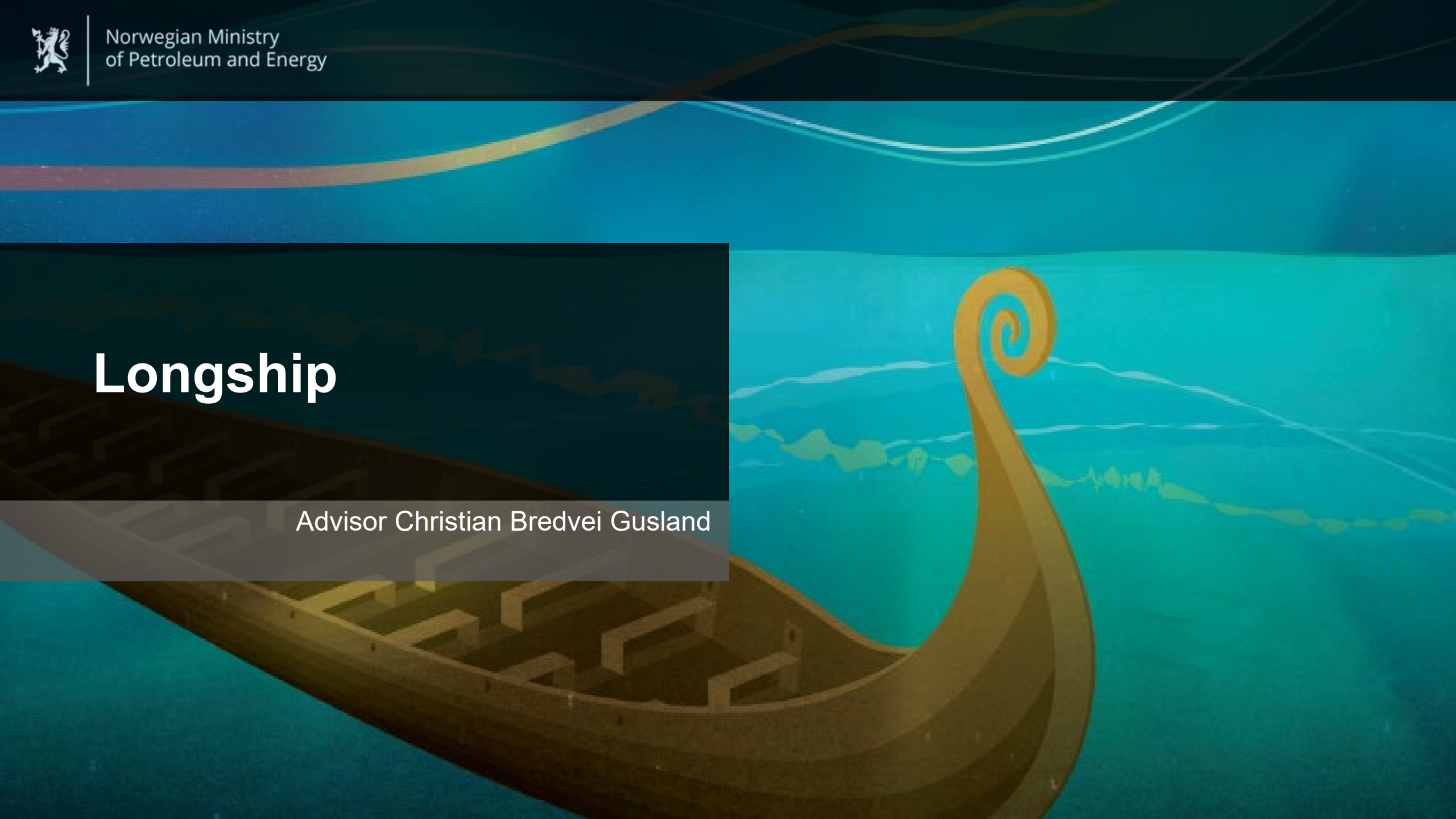




Longship

Advisor Christian Bredvei Gusland



Agenda

- Norwegian energy policy
- Longship
- Future projects



Norwegian energy policy

Parliament White Paper April 2022:

- An energy policy for employment, green transition and security in times of uncertainty
- Norway will remain a stable, predictable and reliable European energy partner.
- Developing low emission solutions, such as carbon capture and storage (CCS)



Meld. St. 11

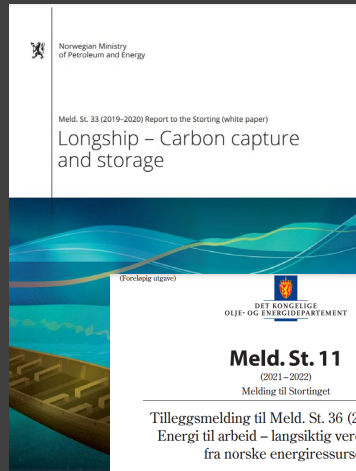
(2021–2022)

Melding til Stortinget

Tilleggsmelding til Meld. St. 36 (2020–2021)
Energi til arbeid – langsiktig verdiskaping
fra norske energiresurser



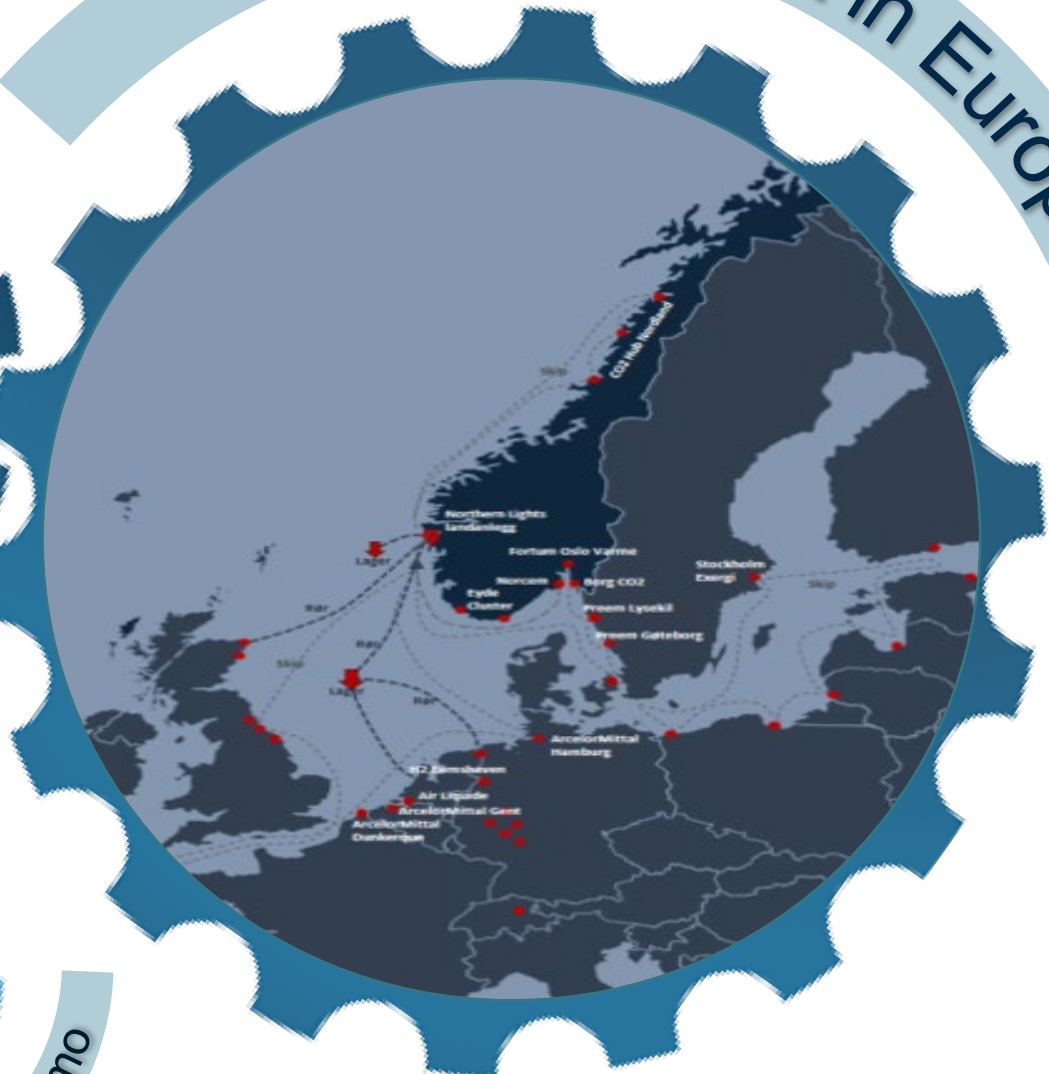
The government's objectives for CCS



1. Demonstrate that CCS is part of the solution
2. Speed up the development of CCS globally
3. Develop new green industry in Norway

CCS deployment in Europe

Longship



R&D

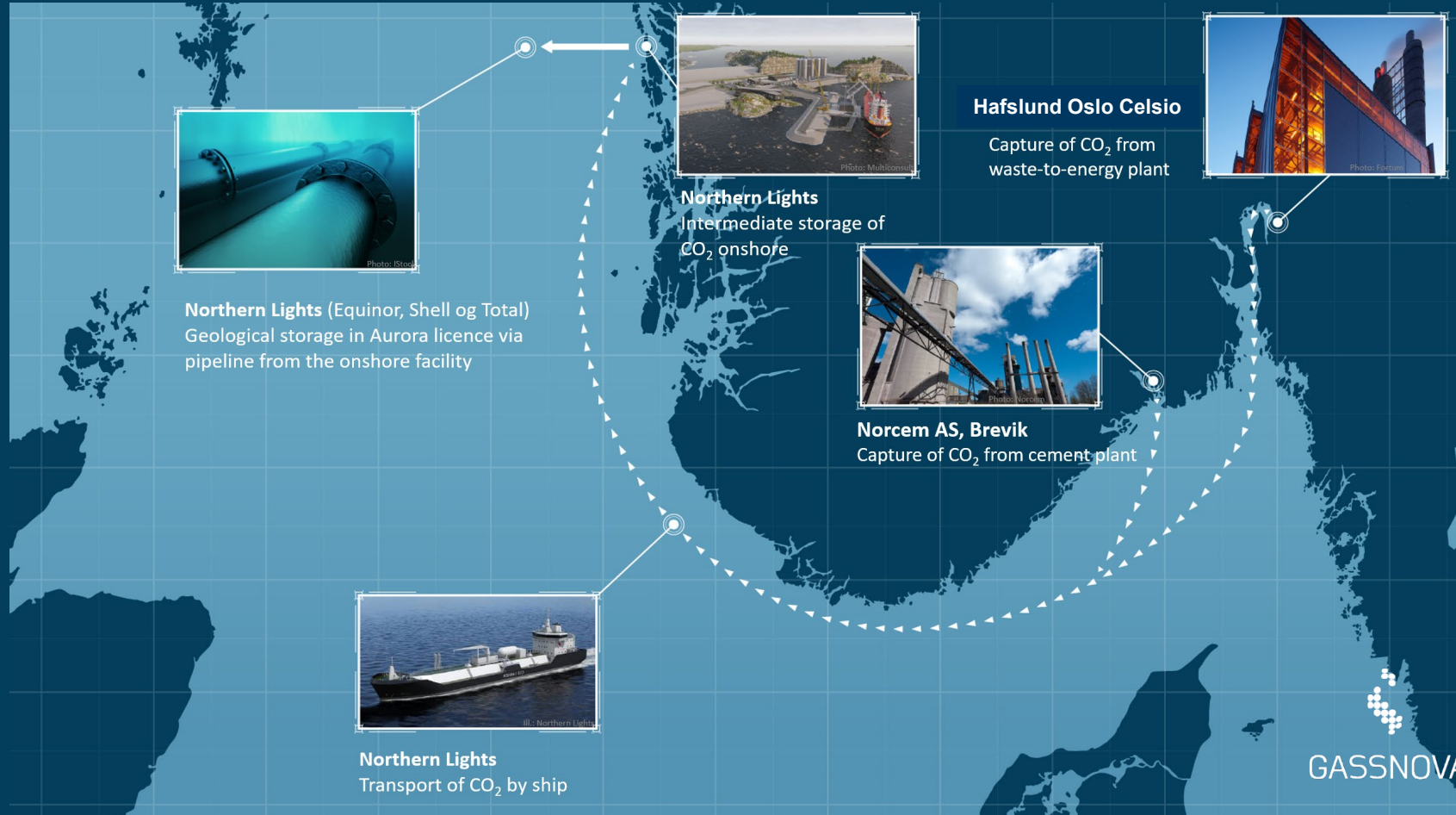


Demo



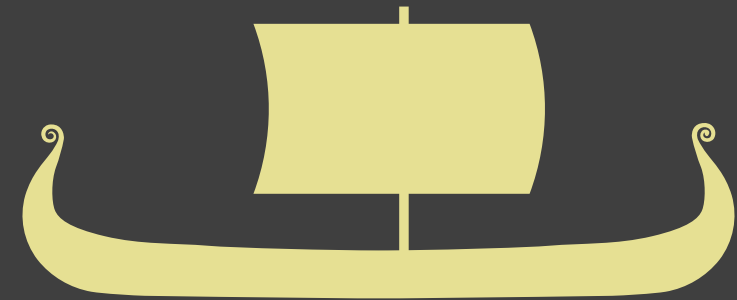
Longship

Longship

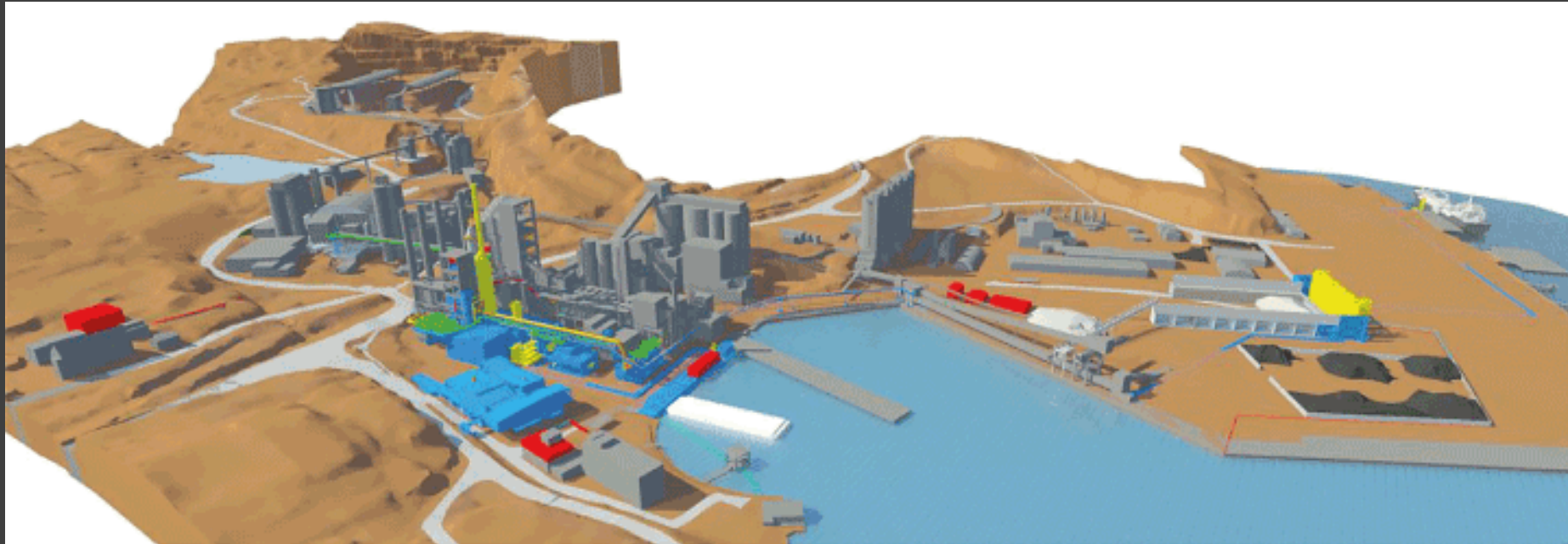


Costs

	Grand Total	Industry and other sources	State Aid
Bn. euros	2.3	0.8	1.5



Heidelberg Materials – Brevik CCS



Hafslund Oslo Celsio



Northern Lights





NORCEM
HEIDELBERGCEMENT Group



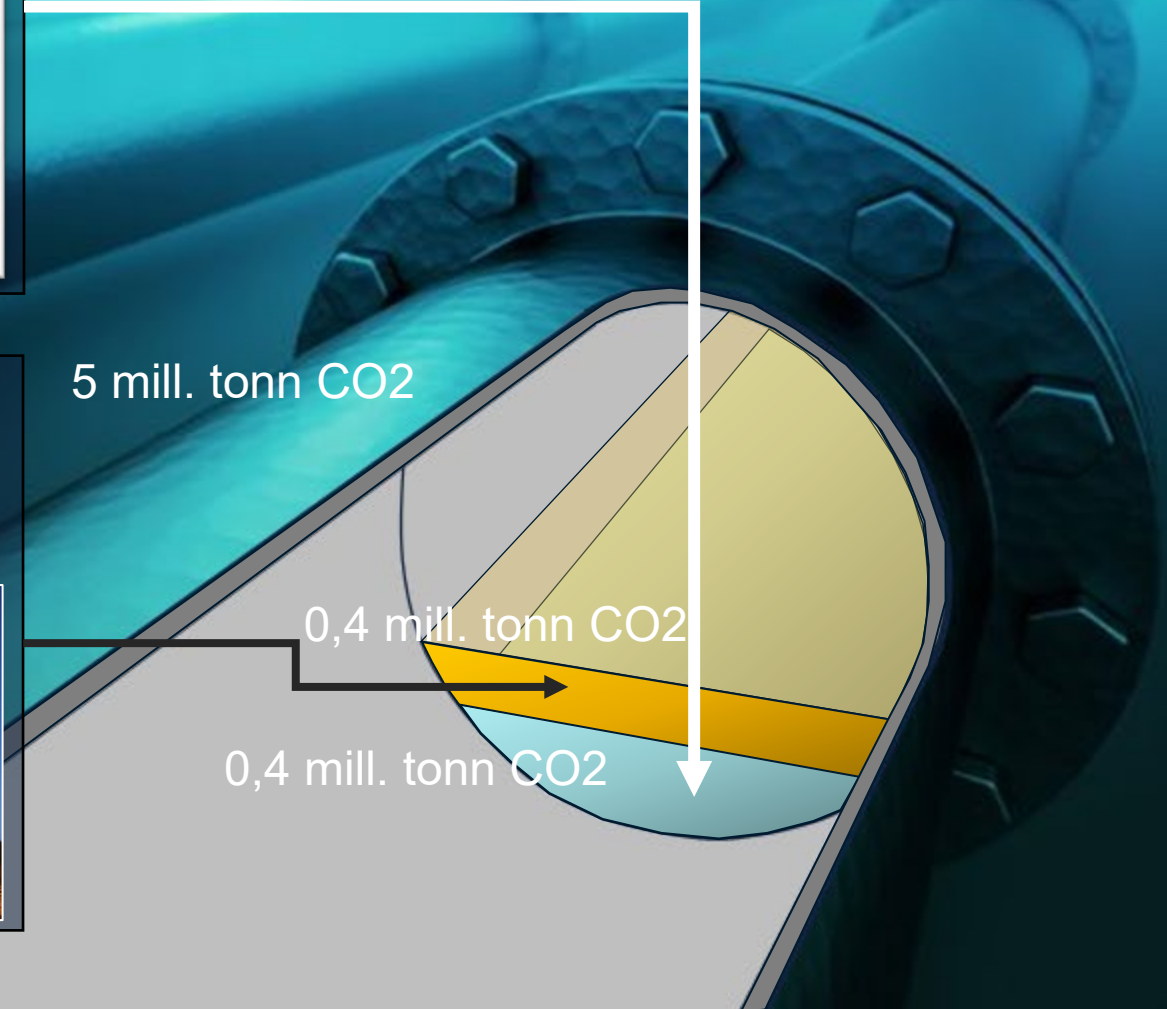
Hafslund Oslo
Celsio



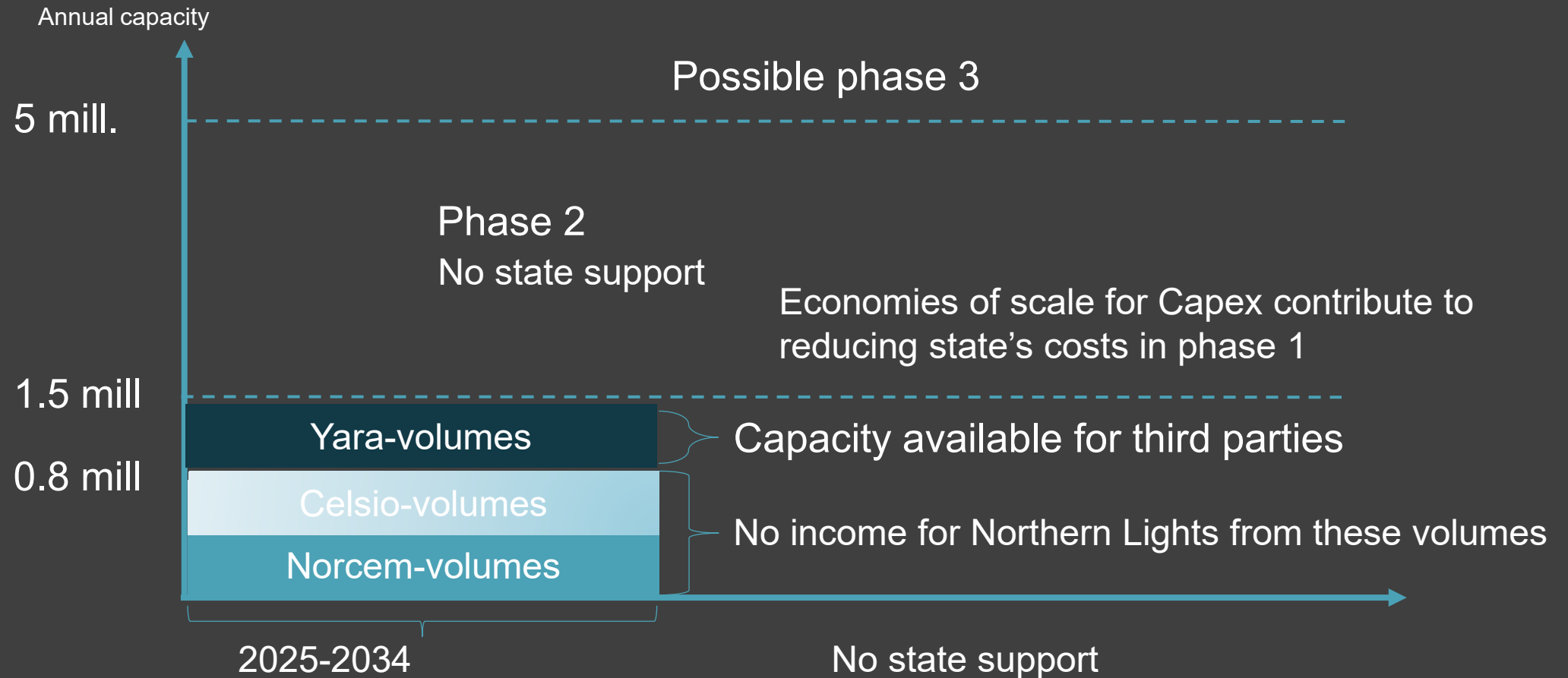
5 mill. tonn CO₂

0,4 mill. tonn CO₂

0,4 mill. tonn CO₂



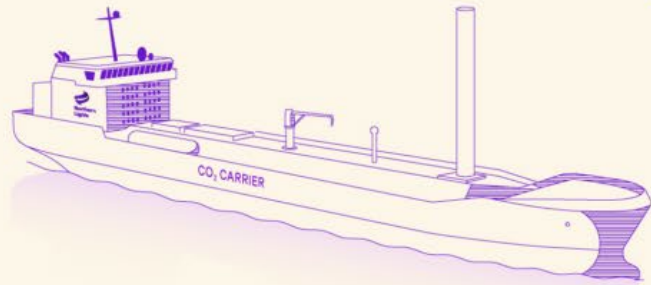
Northern Lights financing





Future projects





Carbfix

Arctic Cluster Team

Sundsvall Energi

Neste - Porvoo

NL Storage Site

Energy Park

Northern Lights JV

Fortum Oslo Varme

Stockholm Exergi

Norcem

Borg CO₂

Söderenergi

Eyde Cluster

Preem

VEAB

Preem
Cinfracap

Greensands

TVCA

Ervia

Aramis

ArcelorMittal

Equinor

ArcelorMittal

Shell

ArcelorMittal
3D

Eqiom

Fluxys

TotalEnergies
Air Liquide
Port of Antwerp

Yara
TotalEnergies
Esso
Air Liquide
HAROPA
Borealis
Suez

ArcelorMittal
Yara
North Sea Port
DOW

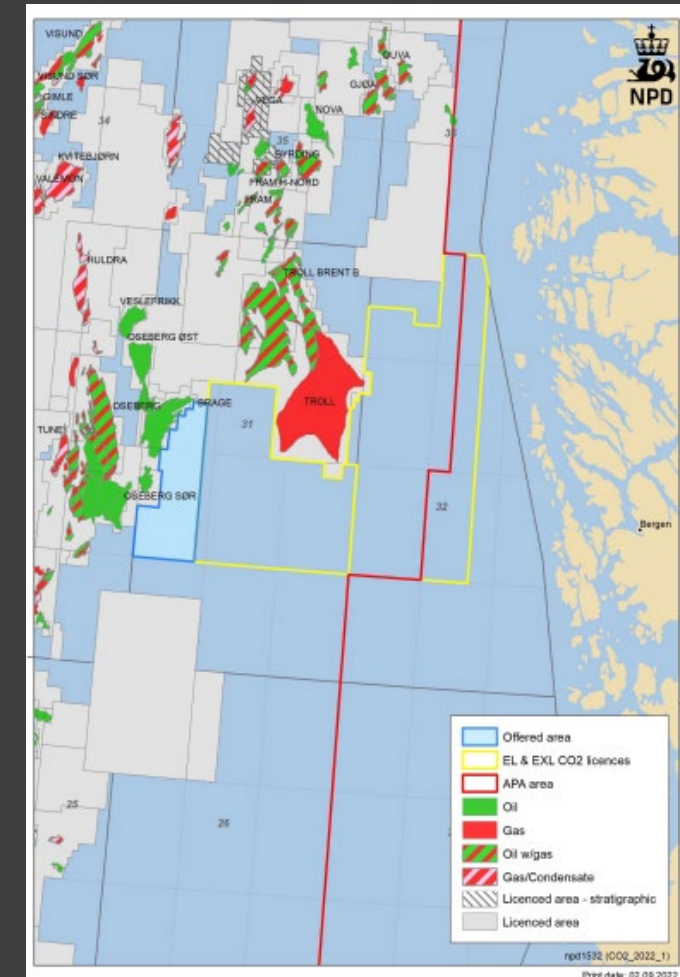
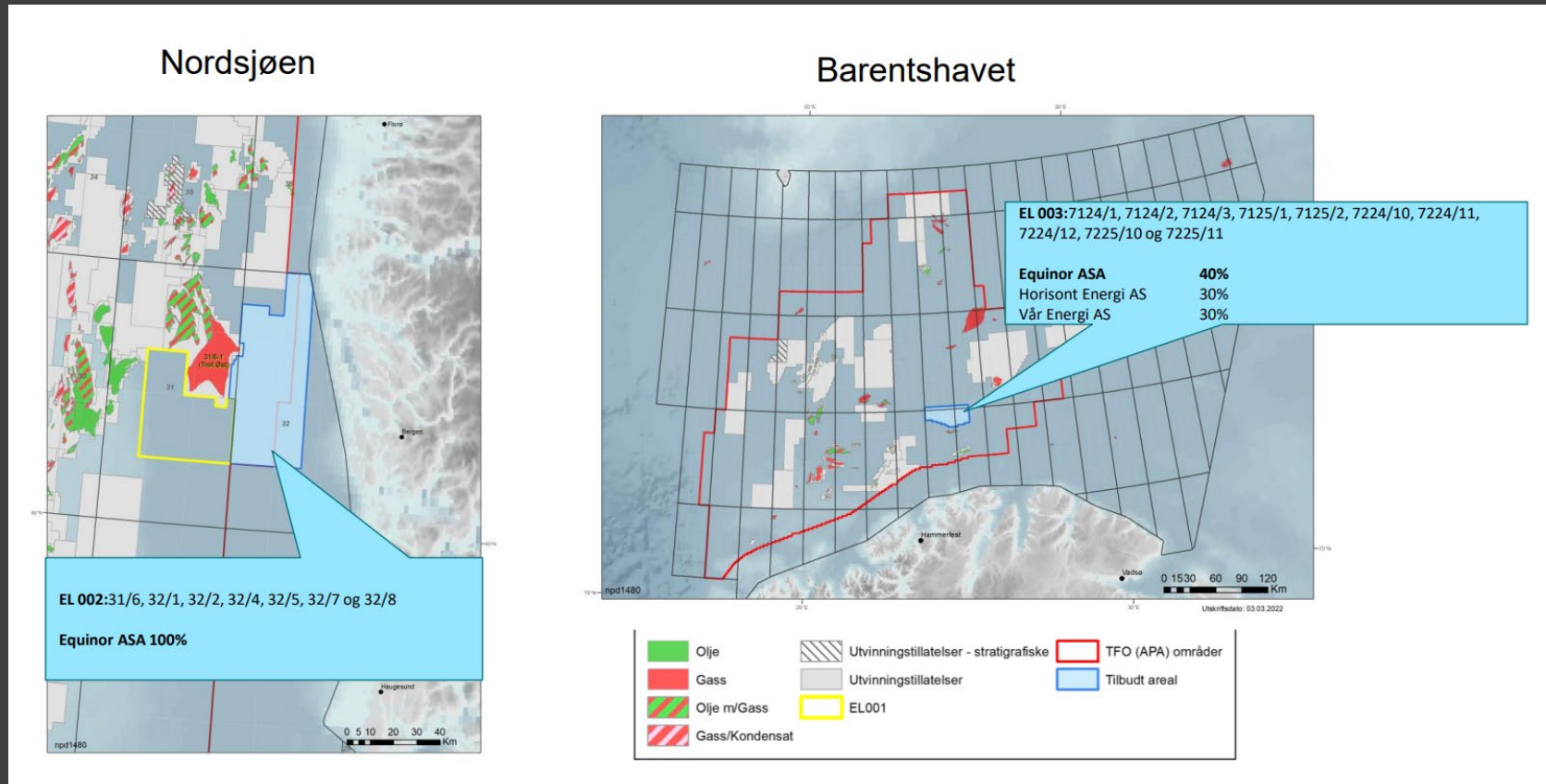
Clusters

- Langskip
- Tredjeparts CO₂-kjelder
- Alternative CO₂-lagerlokasjonar



New licences for CO₂-storage awarded in June and October last year

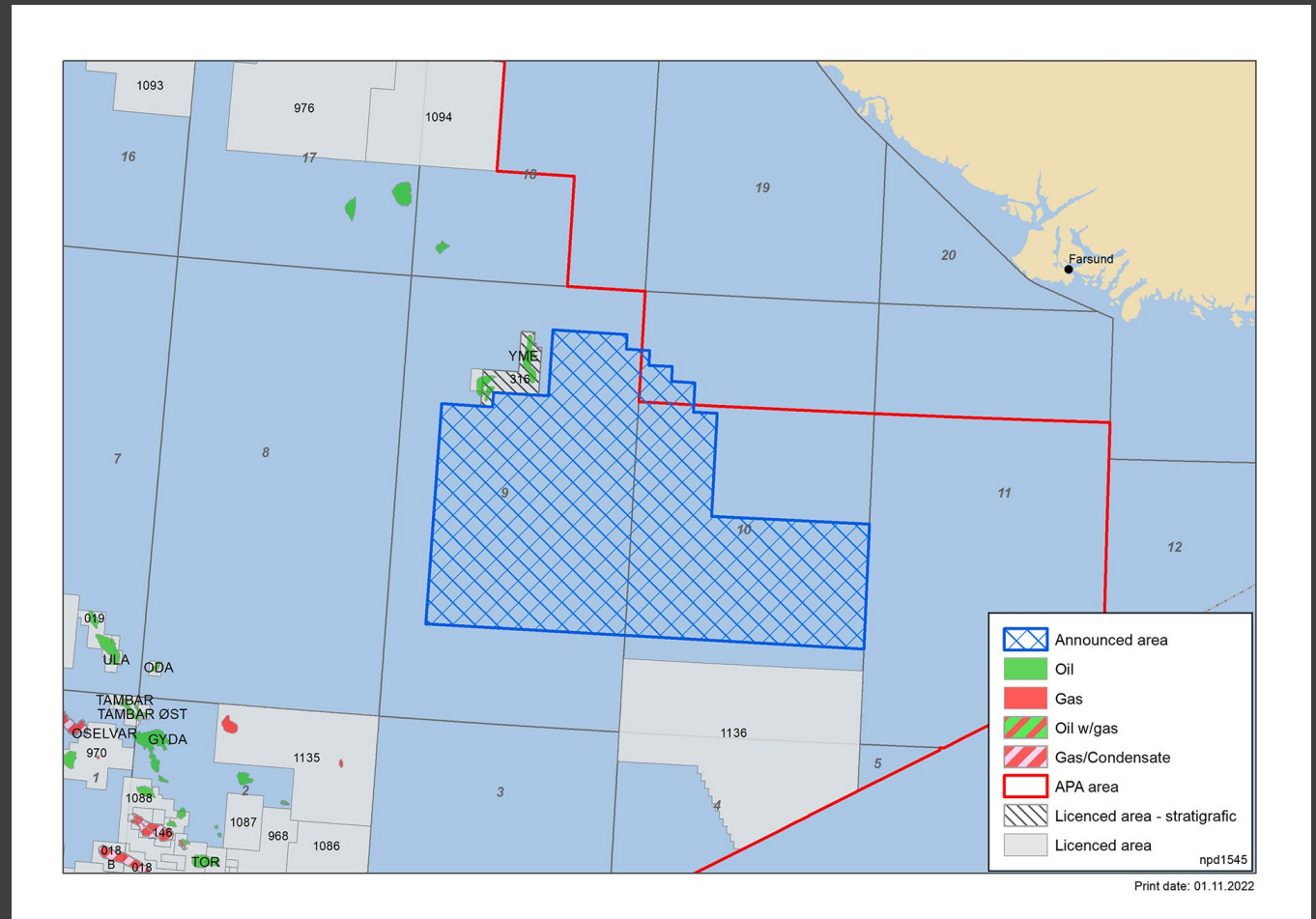
Wintershall Dea & CapeOmega



Six companies have applied for an area for CO₂-storage in the North Sea

- Aker BP ASA
- Alterra Infrastructure Group
- Horisont Energi AS
- Neptune Energy Norge AS
- OMV (Norge) AS
- Wintershall Dea Norway ASA

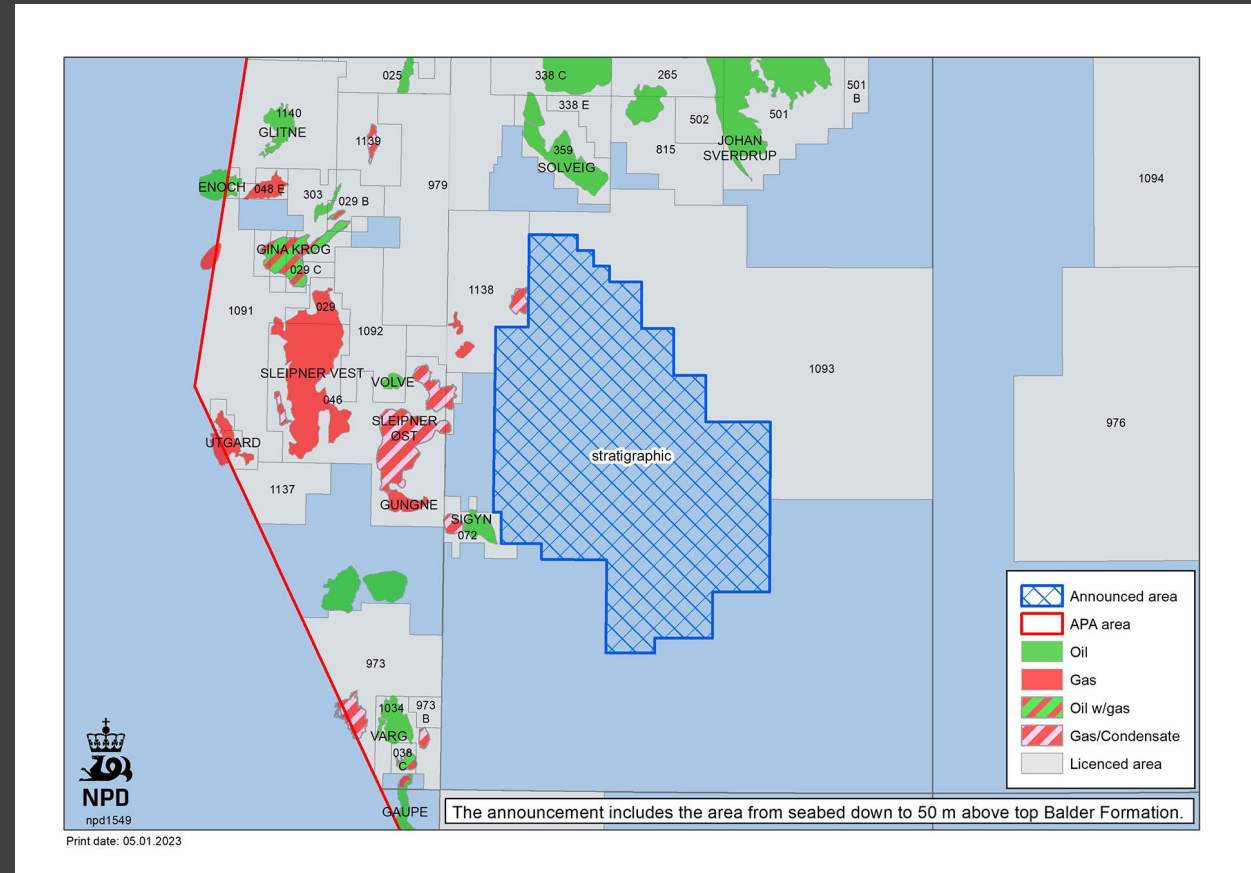
(Deadline was 3 January 2023)



Five companies have applied for another area for CO₂-storage in the North Sea

- Equinor ASA
- Neptune Energy Norge AS
- Storegga Norge AS
- Sval Energi AS
- Wintershall DEA Norge ASA

(Deadline was 22 February 2023)





Norwegian Ministry
of Petroleum and Energy