

# Sokkeldirektoratet

Hilde Braut- Underdirektør Nye Næringer



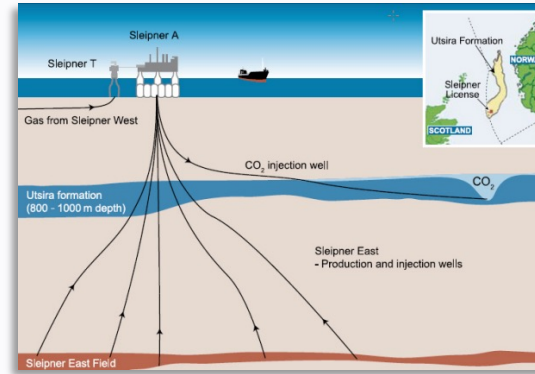
High interest  
for storage on  
Norwegian  
Continental  
Shelf (NCS)





# CCS projects on the NCS

1996: CO<sub>2</sub> re-injection **Sleipner**



2008: CO<sub>2</sub> re-injection **Snøhvit LNG**

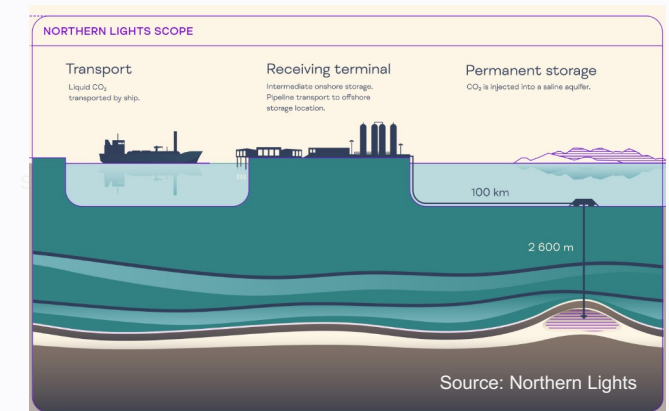
Source: Equinor



2012: Technology Centre Mongstad (**TCM**)



2019: **Northern Lights**





# Active licenses May 2024

- A steadily increasing number of CO<sub>2</sub> storage licenses have been awarded since 2019

**2019:** EL001 (Northern Lights, Longship)

**2022:** EXL002

**2022:** EXL003

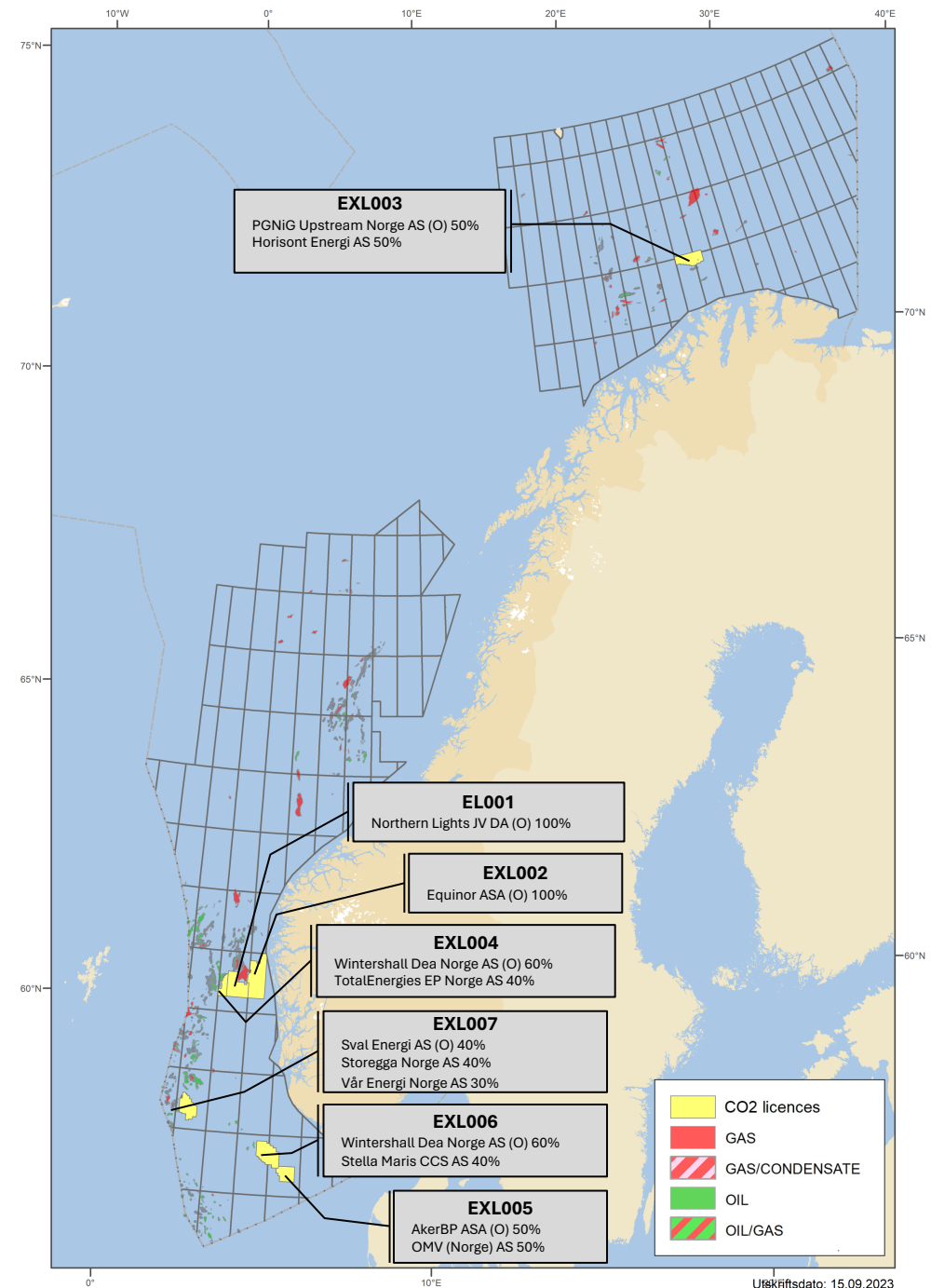
**2022:** EXL004

**2023:** EXL005

**2023:** EXL006

**2023:** EXL007

- Total ~ 8 550 km<sup>2</sup>
- Exploration licenses
  - First FIDs expected in 2026
  - First CO<sub>2</sub> injection in 2028 from the EXL-licenses







# On the agenda

High activity level in maturation of projects  
by the industry





# Coexistence!

## Management areas are expanding



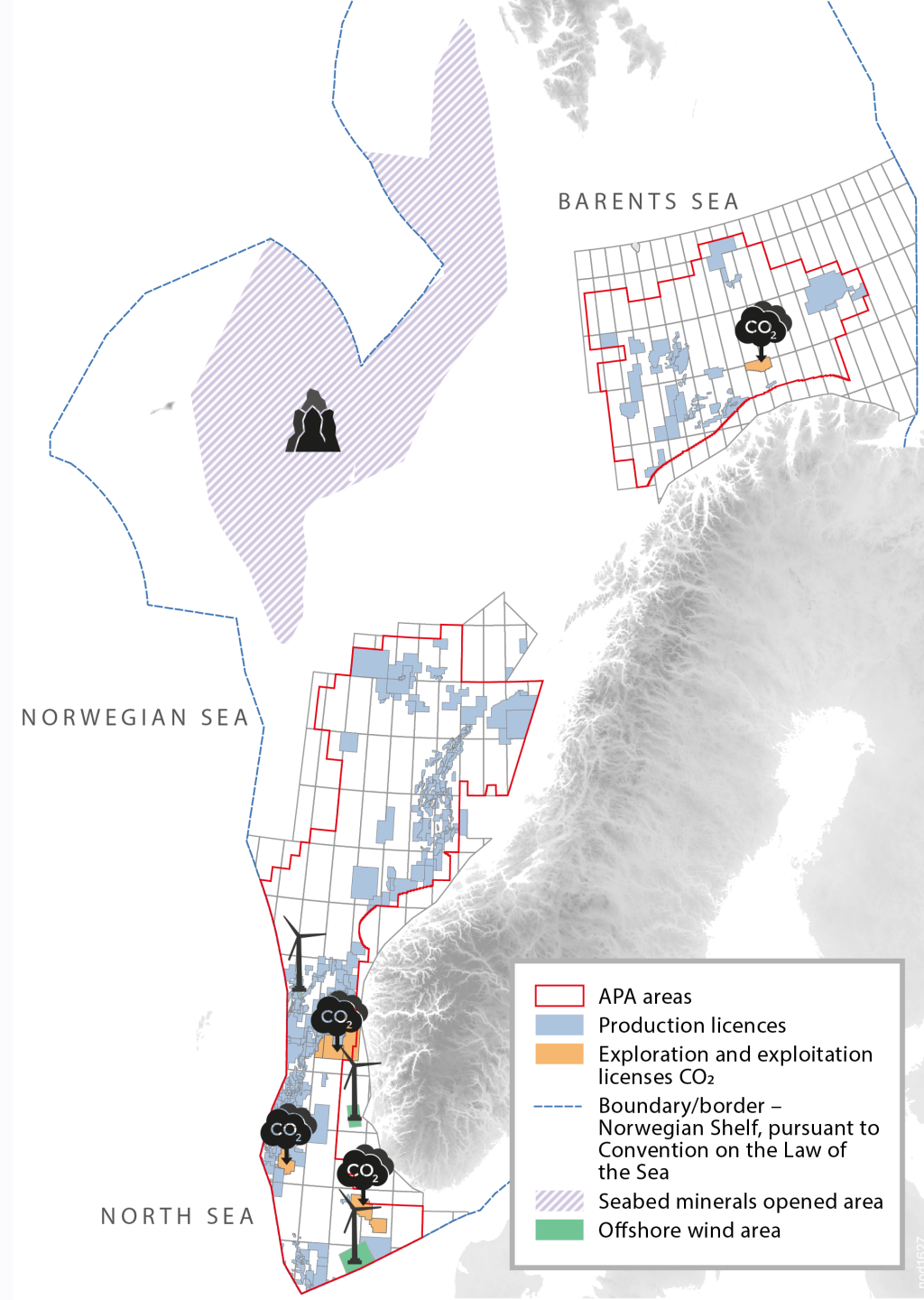
Offshore wind



Storing CO<sub>2</sub>



Seabed minerals



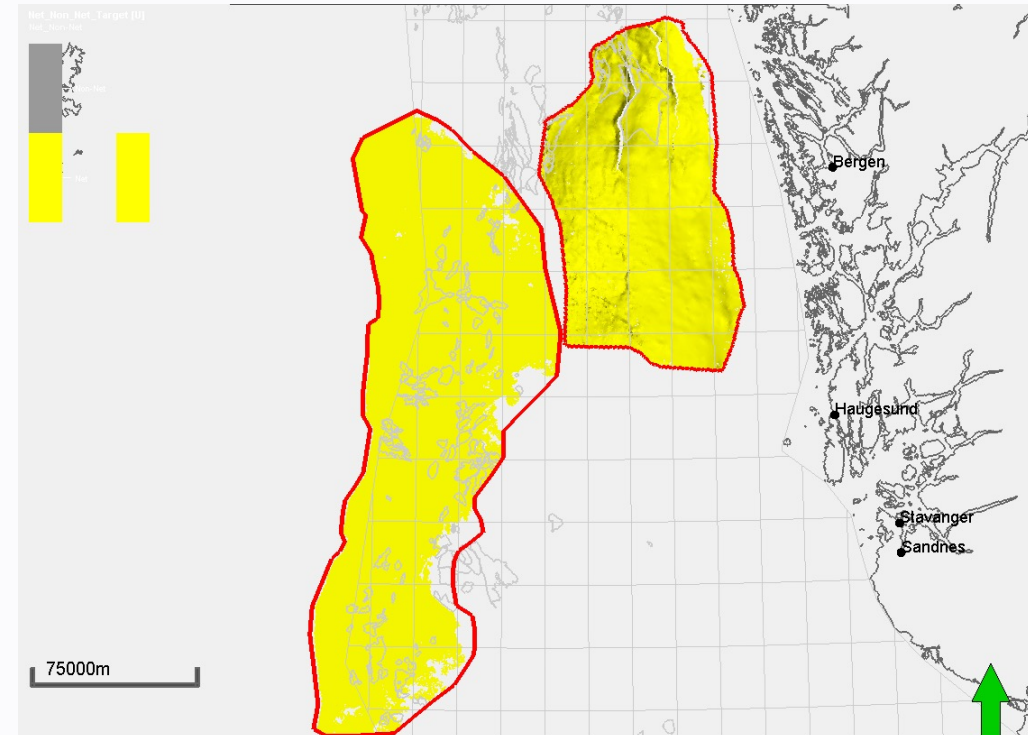
# Aquifer capacity management

§ 5-3 in the Storage regulation:

Any mutual **pressure influences** between storage locations in the **same hydraulic unit** are of such a nature that the requirements in these Regulations can be fulfilled **for both locations at the same time.**

How and who to manage?

- Modelling
- Monitoring – access to data
- Sharing of data



- NOD have developed large scale regional models, in the Frigg/ Heimdal and Troll area in the North sea.
- For CCS purposes these models can be used for better prediction of CO<sub>2</sub> migration and pressure development. The models are public.



# And a lot more information on [sodir.no](https://sodir.no)

## FACTS >

### Production licences

Licensing rounds  
Pre-qualification

### Geology

Geobank  
Plays  
Simplified time scale  
The 2014 NPD lithostratigraphic charts  
Structure elements  
Svalbard – a unique area for geology

### Technology

Subsurface data acquisition  
Challenging barrels  
Next generation production systems

### Offshore wind

Subsurface surveys  
Data acquisition  
Regulations

### Production

Improved oil recovery (IOR)  
Shutdown and removal

### Resource accounts and analysis

Archive resource accounts

### Carbon storage

Licences for carbon storage  
CO<sub>2</sub> atlases  
Interactive CO<sub>2</sub> atlases  
CO<sub>2</sub> storage models  
Articles, publications and posters  
Research programs

### Wells

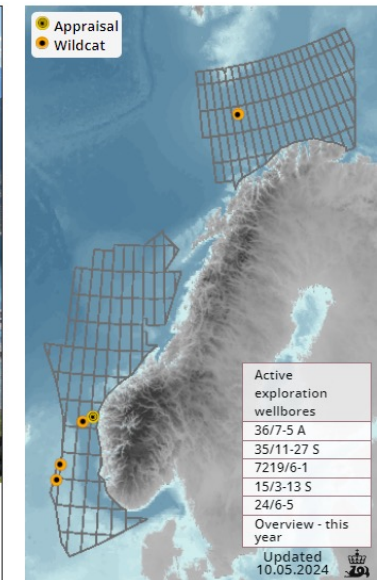
Well classification  
Well definitions  
Forecasts and results for wildcat wells

### Geophysical surveys

Ongoing surveys  
Sale of data  
Survey licences  
Fishery experts

### Seabed minerals

Licensing rounds  
Environmental impact assessment  
Data acquisition and analyses  
Sulphides  
Manganese crusts  
Reports, publications and presentations  
Professionals  
Photos of seabed minerals







# TAKK FOR OPPMERKSOMHETEN



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