



Status and outlook of the Danish CO₂ storage sites

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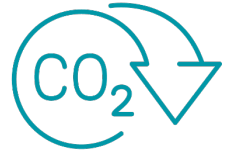
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Danish Energy Agency



Danish CCS implementation focus



Funding

Not a business case for CCS

CO₂ taxes

State-aid approach

Contract for Difference

Build a market

Regulation

Ensure legal framework

Provide regulatory overview

Remove barriers

Balance the need for
regulation vs. time

International agreement

CO₂-storage

Strategic asset for Denmark

License tenders

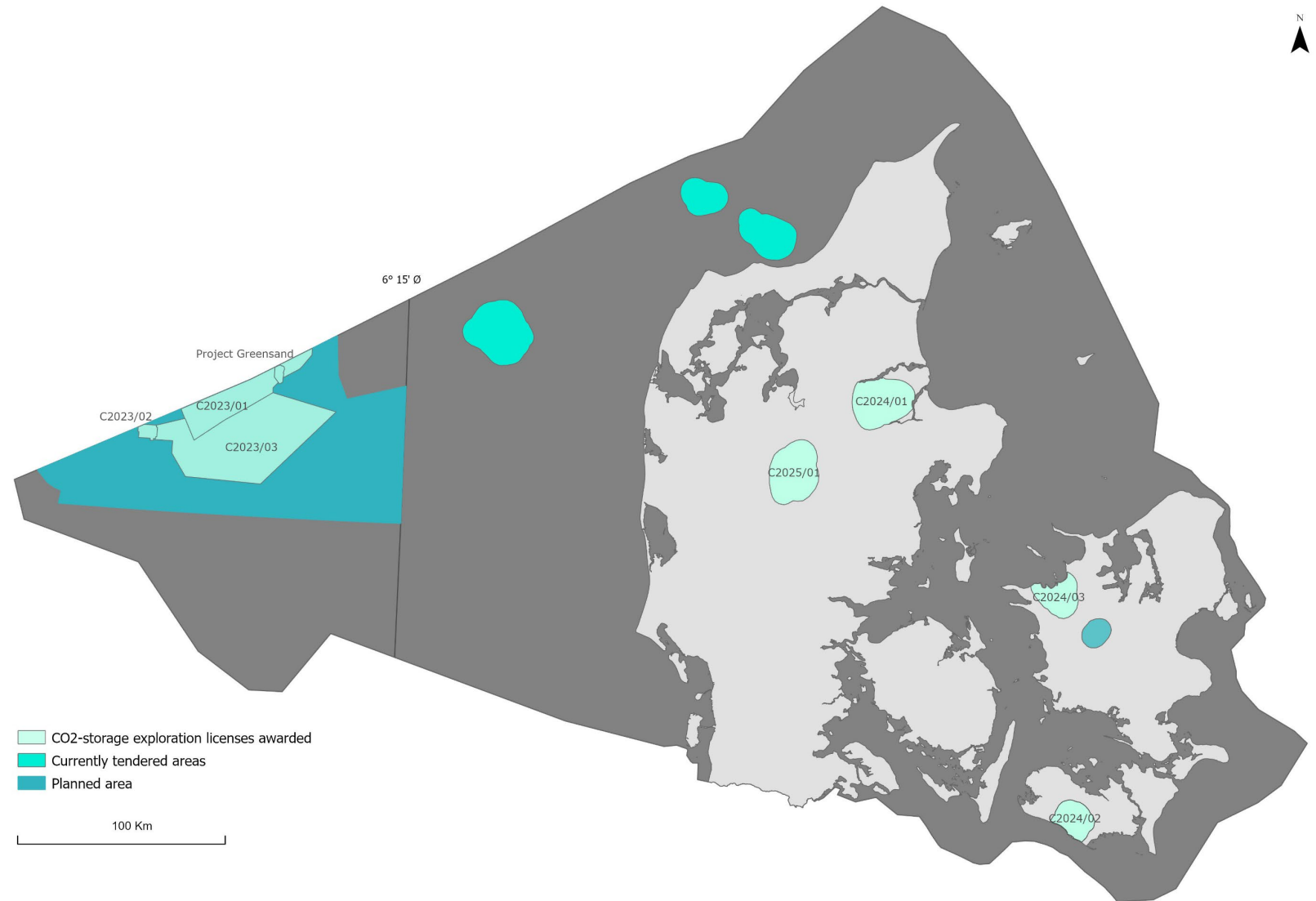
Exploration permits

Storage applications

Public Perception

CO₂-storage sites

- Seven CO₂ storage exploration permits
- Offshore and onshore
- 3 currently tendered area
 - › Application closed
- Intensive data-collection
- No commercial bindings
- No (direct) Danish state-aid
- Public engagement



CO₂-storage status: Greensand Future Project

- In 2021 Project Greensand was the first pilot project in Denmark and was completed in 2023.
- First large-scale CO₂ storage application the DEA have received
- Large-scale commercial CO₂ storage by end 2025/early 2026.
- 0.3 mio. tons CO₂ per year
- Appx. 2.4 mio. tons of CO₂.
- Reuse of offshore-infrastructure.



INEOS E&P

CO₂-storage status: Project Ruby

- CarbonCuts was awarded exploration license in June 2024.
- Completed large scale onshore 3D seismic campaign.
- Finished with re-opening of historic exploration well.
- Currently mapping local plant- and animal life
- 1.5 mio. tons CO₂ per year from 2030

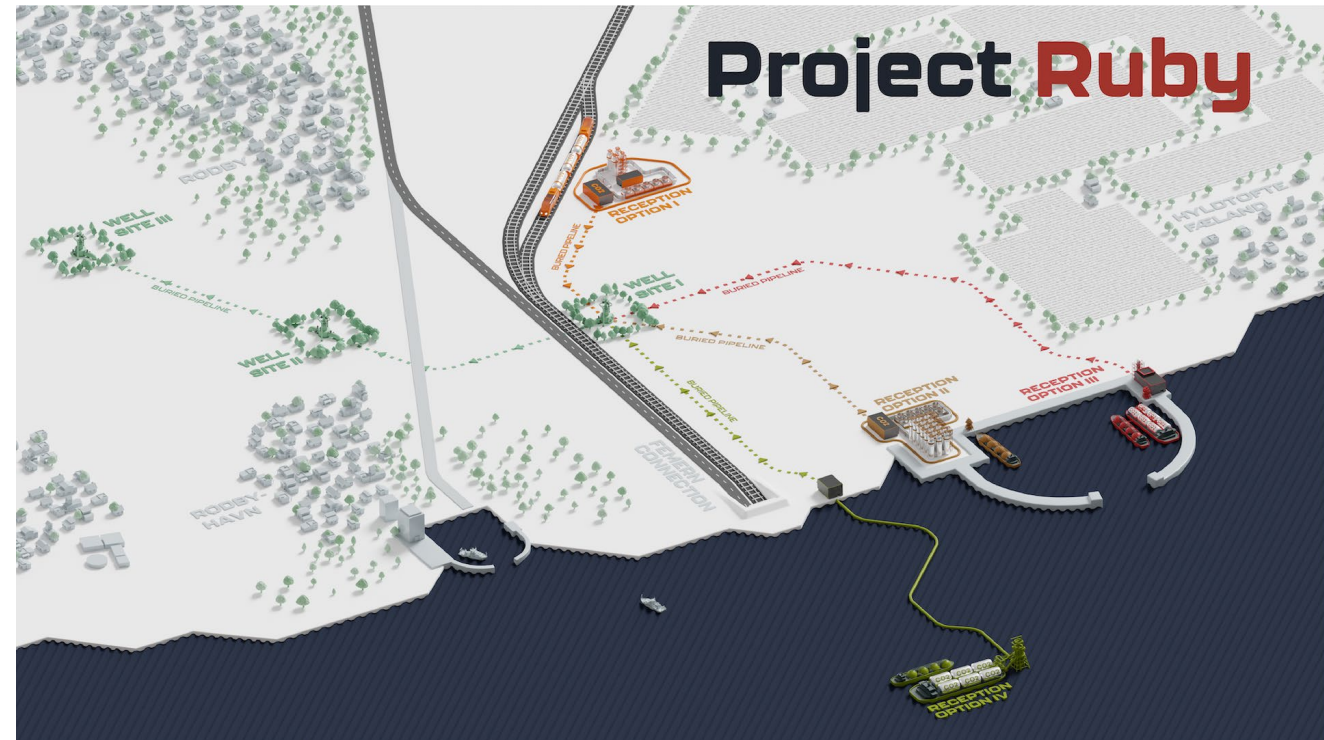
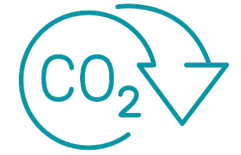


Photo: project-ruby.dk



Photo: project-ruby.dk

CO₂-storage status: Other projects



Bifrost Project (Dagny)

Project Bifrost is in the Danish North Sea (TotalEnergies)

Two CO₂ storage licenses in early 2023.

3D seismic campaign in 2024

Next up well drilling in 2025-26

Estimated injection rate >5 mio tons CO₂ per year

Greenstore Project

The Greenstore Project is located in Jutland (INEOS)

Evaluating pre-existing seismic data.

3D seismic campaign start in late 2025.

Estimated capacity to be around 250 Mton of CO₂

CO₂ Storage Kalundborg

CO₂ Storage Kalundborg is located in West Zealand (Equinor).

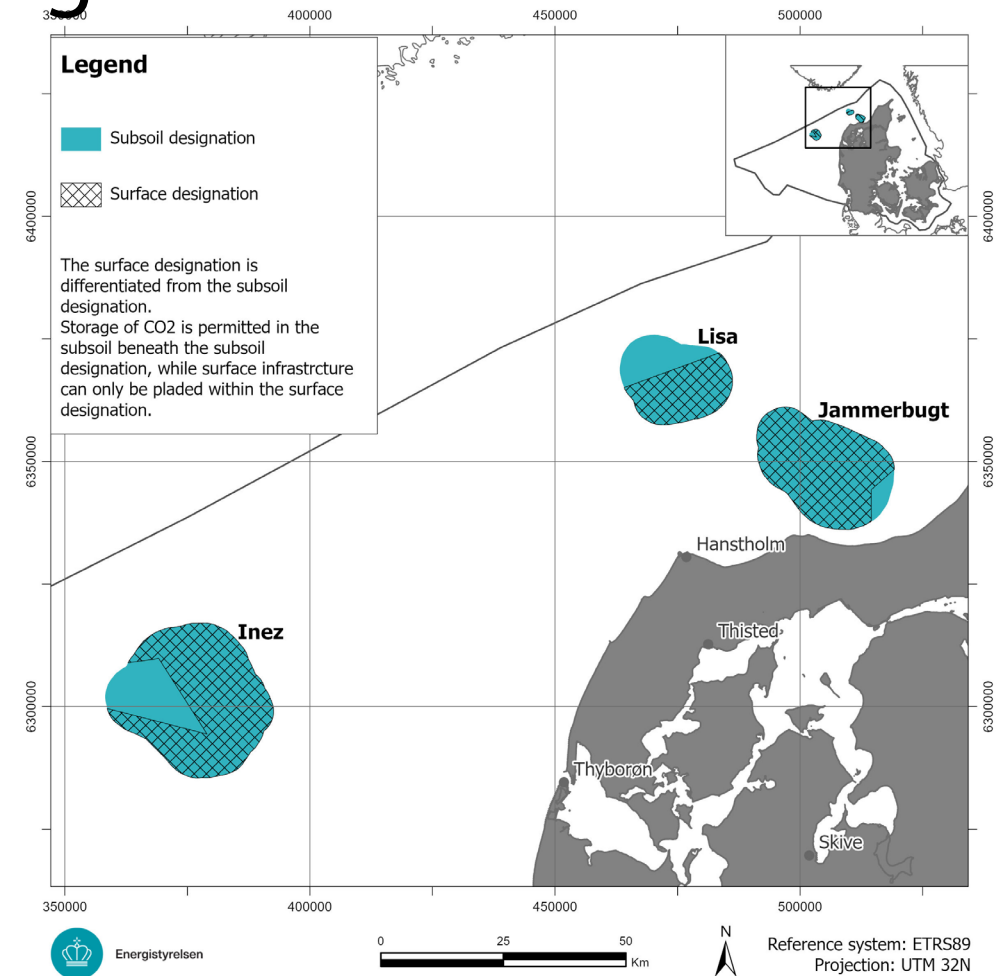
Ongoing on- and offshore 3D seismic campaign.

Well drilling in 2026.

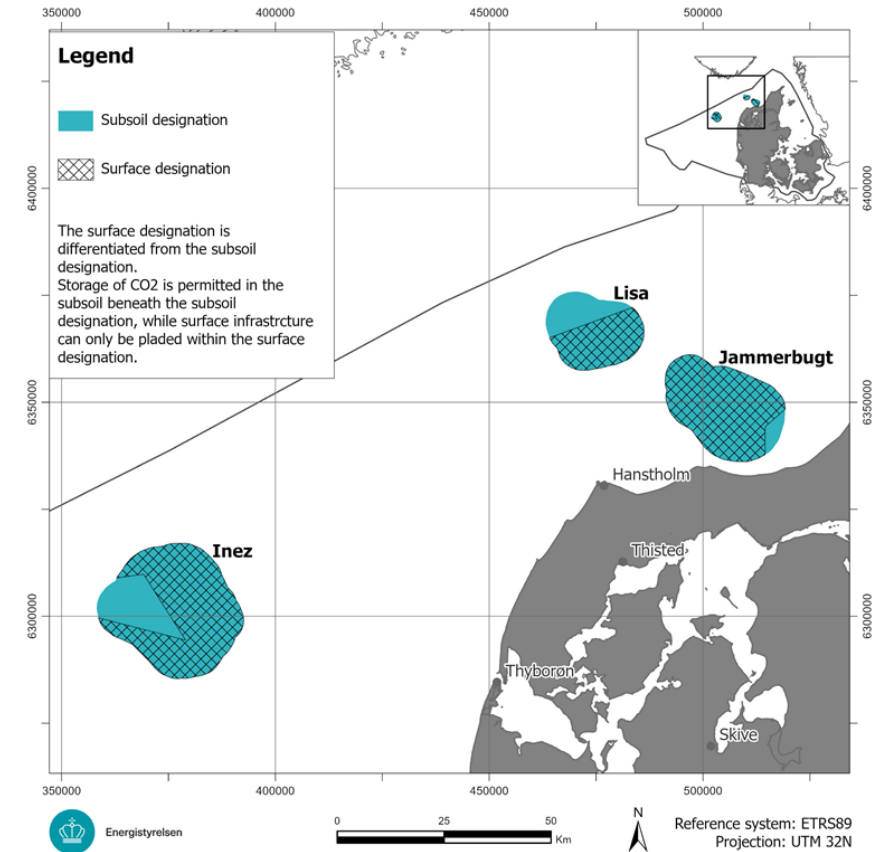
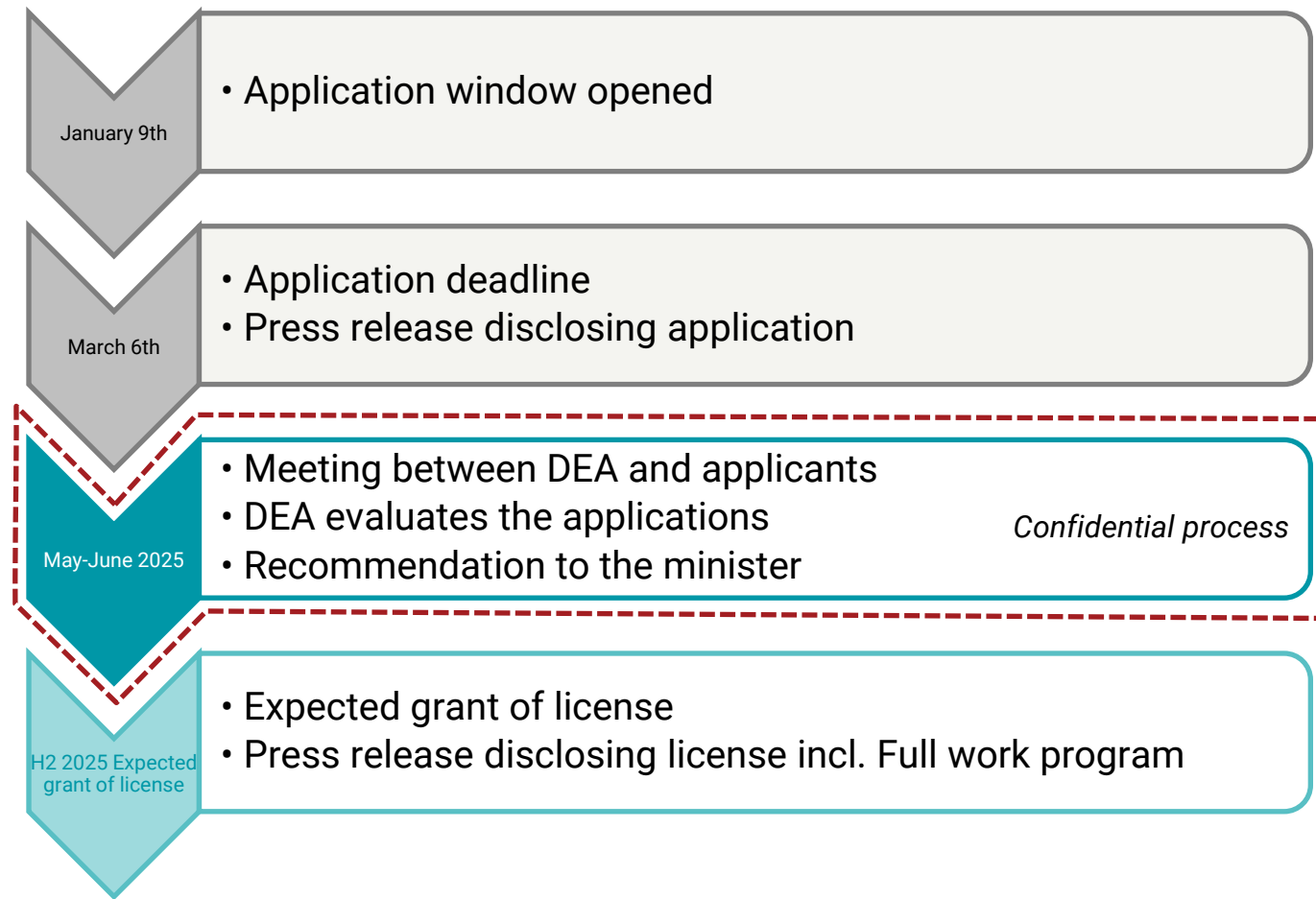
Estimated capacity to be around 300 Mton of CO₂

New CO₂ storage sites: 4th licensing round

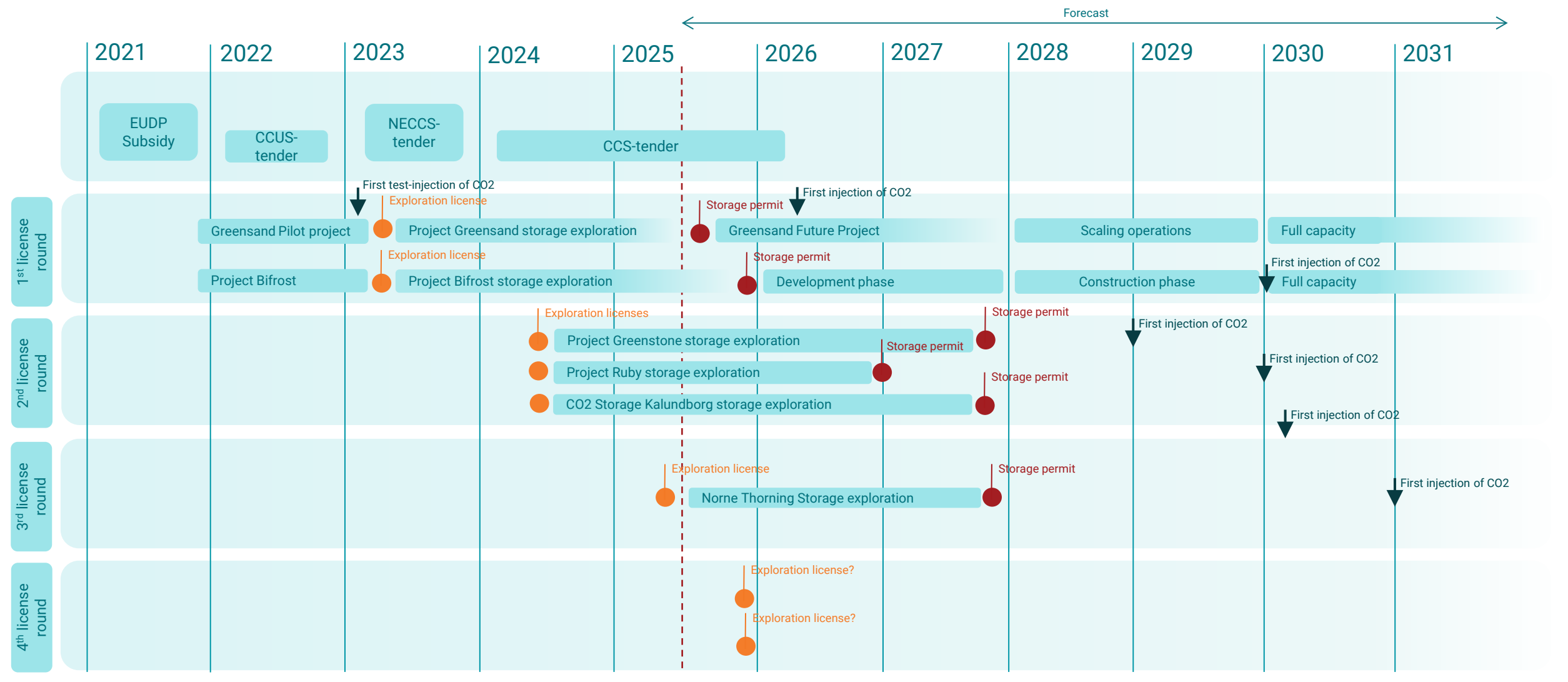
- In early 2025 the DEA initiated a licensing round for exploration and use of the subsoil for CO₂ storage in certain offshore coastal areas.
- The tender covers 3 pre-defined coastal areas in the North Sea subsoil offshore.
- The application deadline was 6 March 2025.
- DEA received two application for the 3 areas:
 - › CarbonCuts A/S
 - › TotalEnergies EP Danmark A/S and Mitsui & Co. Ltd.



CO₂-storage sites: 4th licensing round



CO₂ storage in Denmark: The possible timeline



FORECAST: Mature Storage before 2030



Photo: CO2idybden.dk

Questions





Thank you



Danish Energy Agency