

Danish Offshore Technology Conference 2022

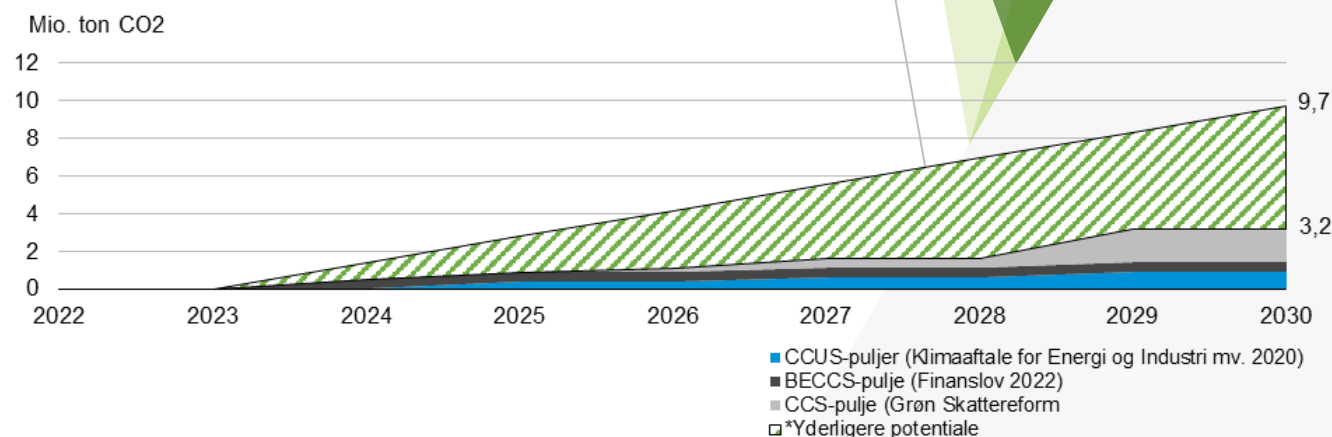
The Energy Transition in the North Sea

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Confederation of Danish Industry (DI)

CCS for climate targets

- ▶ The latest IPCC report underlines CCS as one of the key technologies to keep 1.5 degrees alive.
- ▶ CCS was also identified as an essential technology to reach the Danish 70% climate target.
- ▶ DK's CO2 emissions decreased from 78 mil. t in 1990 to 45 mil. t in 2021.
- ▶ To reach the 70%, we have to reduce the emissions to about 23 mil. t CO2.
- ▶ Almost half of the emission reductions can potentially be reached through (BE)CCS → up to 9.7 mil. t in DK in 2030.
- ▶ The three funding schemes shall deliver 3.2 mil. t reduction in 2030.

Vedtagne (BE)CCS-reduktioner udgør under 33 pct. af potentialet i 2030 Estimerede (BE)CCS-reduktioner fra aftaler samt CCS reduktionspotentiale, 2022-2030



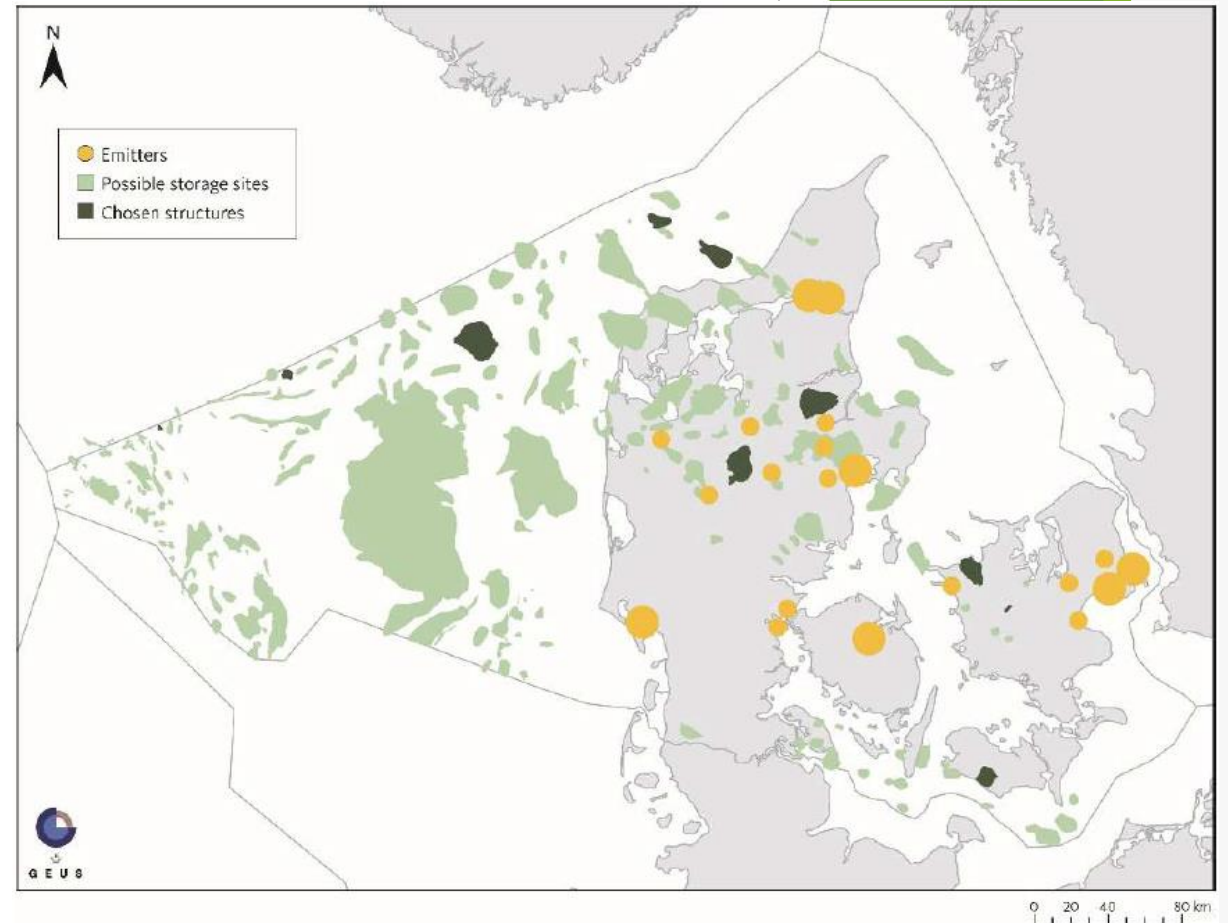
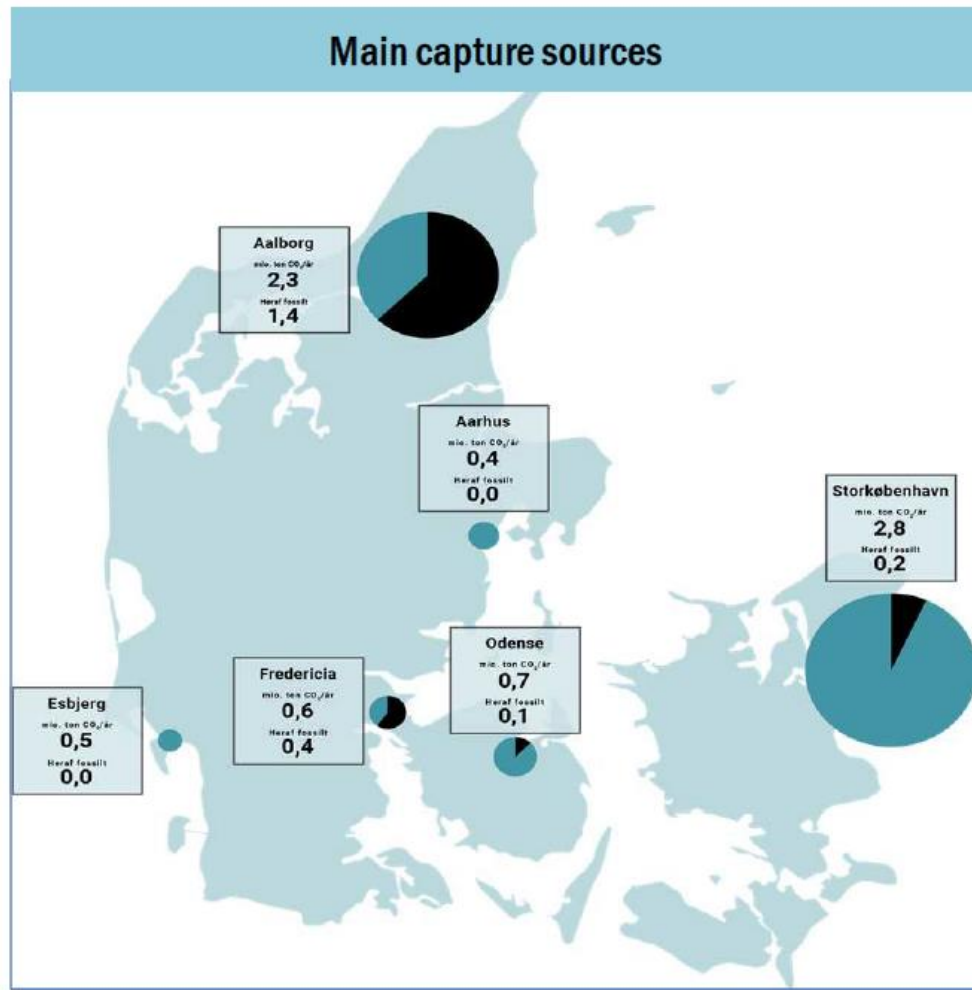
Anm.: *Yderlige potentiale er i 2030 aflæst fra "Klimaprogram 2022". Det høje skøn fra KEFM er anvendt. Potentialet er lineært indfaset i perioden 2022-2030.

Overview of CC(U)S funding schemes

Table 1
Comparison of subsidy schemes for CCS

	CCUS	NECCS	GSR
Eligible for funding	Negative emissions and reductions from technological flue gas processes	Negative emissions from technological processes.	Negative emissions and reductions from technological processes, agricultural sector excluded
Eligible sources of CO2	Fossil and biogenic	Biogenic (including DACCS)	Fossil and biogenic (including DACCS)
Contract period	Up to 20 years per contract w/ opt-out option w/ retention penalty	Up to 8 years per contract w/ opt-out option (limited retention penalty)	Up to 15 years per contract w/ opt-out option (limited retention penalty)
Pre-financing	No	Yes	No
First reduction year	2025/26	2024/25	2026/27
Support period	2024-2049	2023-2032	2026-2043
Budget (2023-prices)	16,6 mia. kr.	2,6 mia. kr.	19,5 mia. kr.

Point sources & CO2 storage facilities



CCS alliance

- ▶ +50 members along the entire value chain

Vision:

- ▶ Positioning of Denmark as a European hub for CO2 storage (international)
- ▶ Establishment of a competitive CCS industry in Denmark (nationally)

Mission:

- ▶ The alliance creates the biggest possible public and political visibility for the (BE)CCUS agenda.
- ▶ The alliance contributes to an understanding of the importance of creating a framework for a competitive Danish CCS industry.
- ▶ The alliance works for the greatest possible capture and storage capacity in 2030 – and thus also understanding and acceptance of what this requires in terms of political measures.



CARBON CAPTURE STORAGE
ALLIANCEN

DI ENERGI – DANSK FJERNVARME – DANSK OFFSHORE
DANSKE REDERIER – DANSK METAL – AXCEL FUTURE

Offshore Wind - declarations, agreements and targets



Esbjerg

Klimaaf tale om grøn strøm og varme 2022

Et grønnere og sikrere Danmark

Danmark kan mere II

(25. juni 2022)

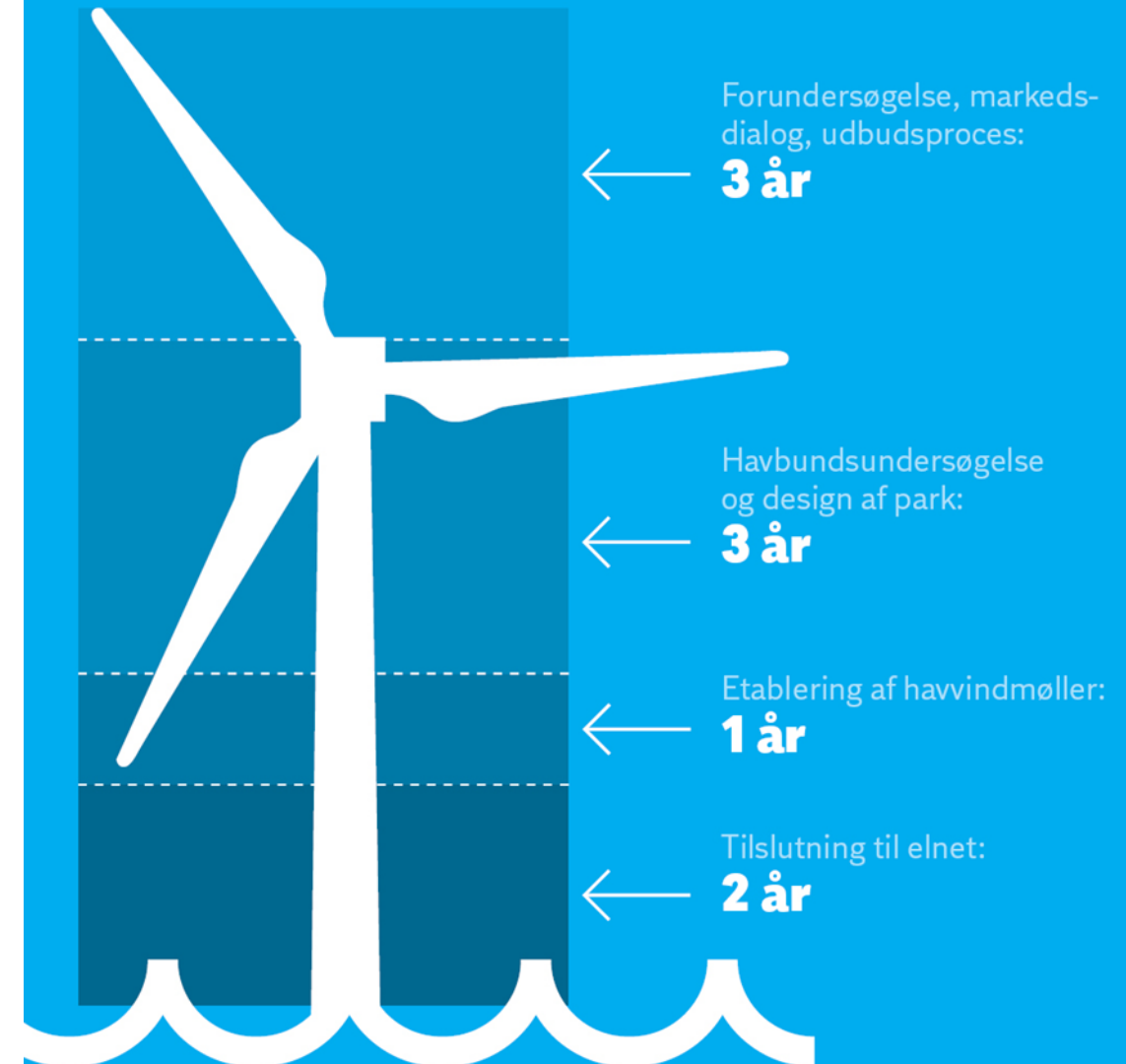
Marienburg



Offshore Wind - challenges

- From policy to action
- Cumbersome permitting procedures
- Design of tenders
- Labour
- A solid pipeline of projects

SÅ LANG TID TAGER DET AT OPSÆTTE EN HAVVINDMØLLE



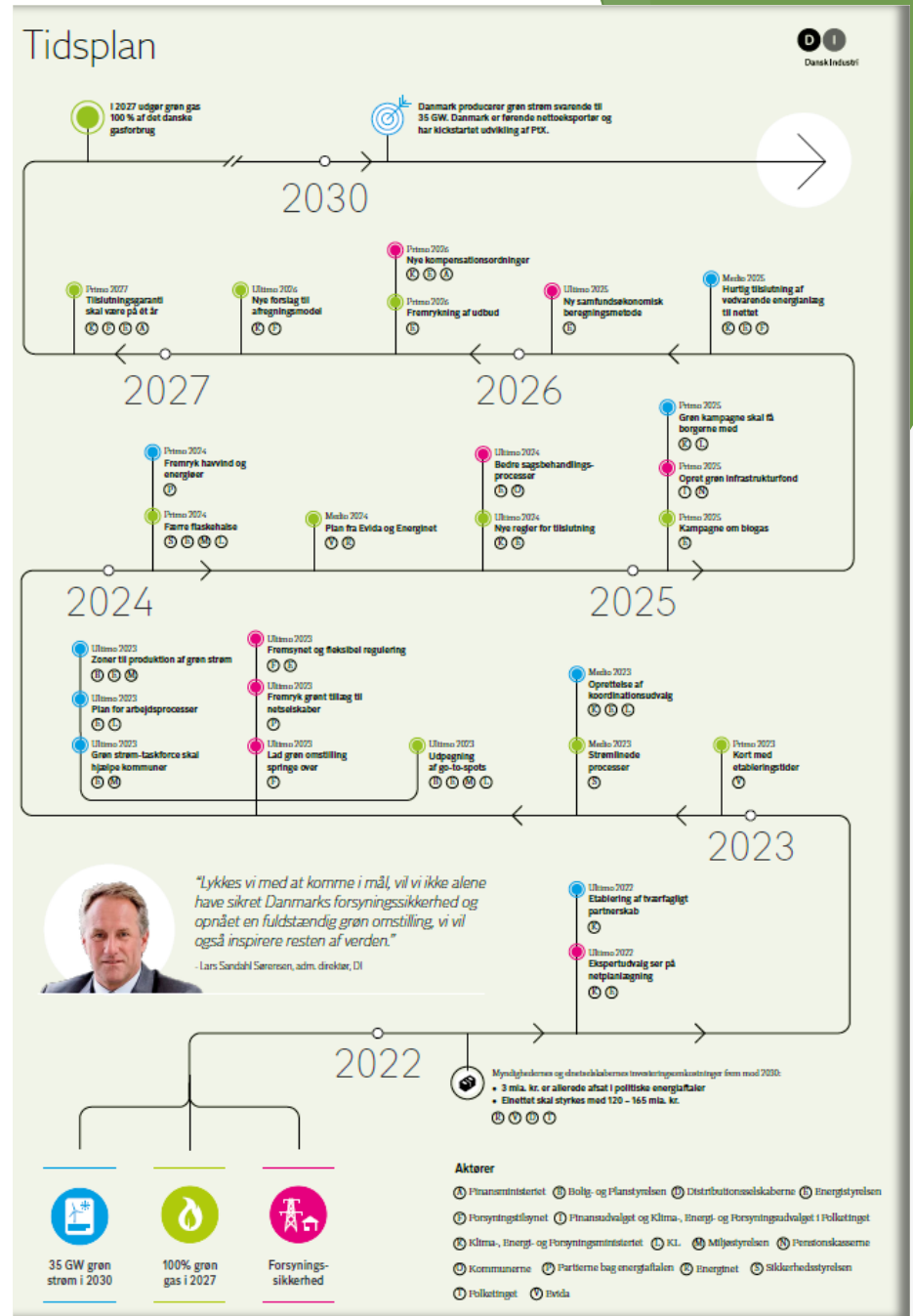
Offshore Wind - Dansk Industri

Grøn Samfundskontrakt

Road map 100% green energy by 2030

- 35 GW green power by 2030
- 100% green gas by 2027
- Security of supply

26 concrete actions



PtX/E-Fuels



Hydrogen Island

