

# SHORT STATUS ON CC(U)S IN DK

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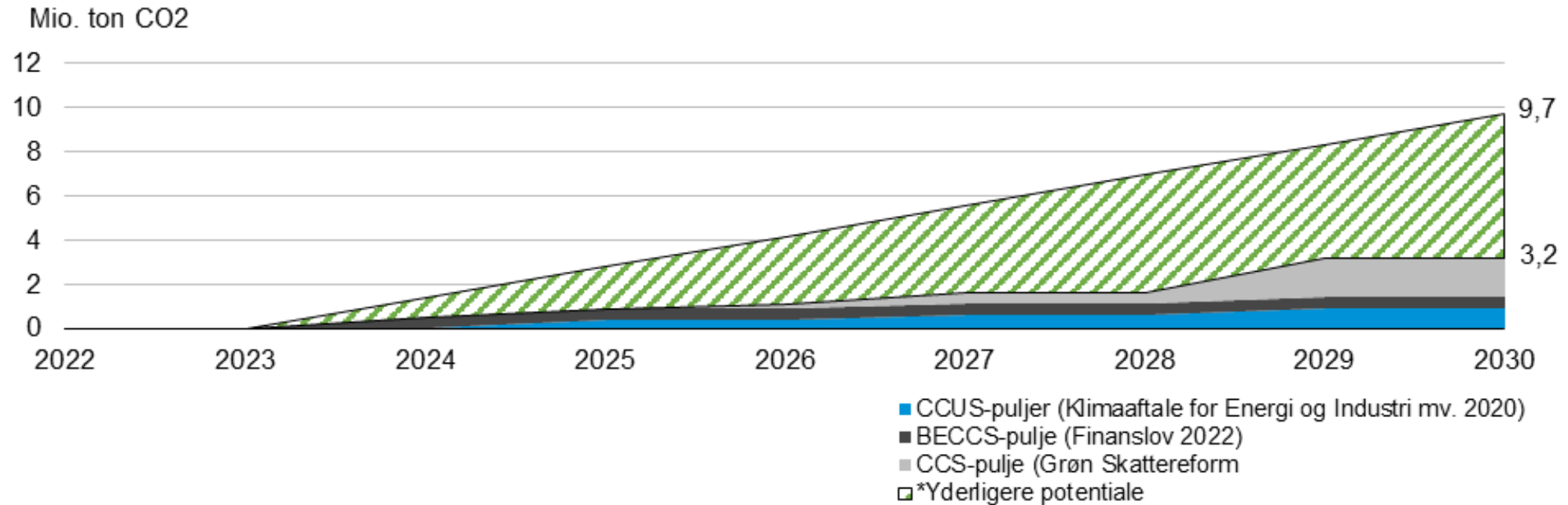
# CCUS for climate targets

- CCUS identified as essential technology to reach our 70% climate target
- DK's CO2 emissions declined from 80 mio. (1990) to 43 mio. (2021)
- To reach the 70% target, we need to reduce emissions to 23 mio. tons CO2

# CO2 reduction potential from CCS 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.

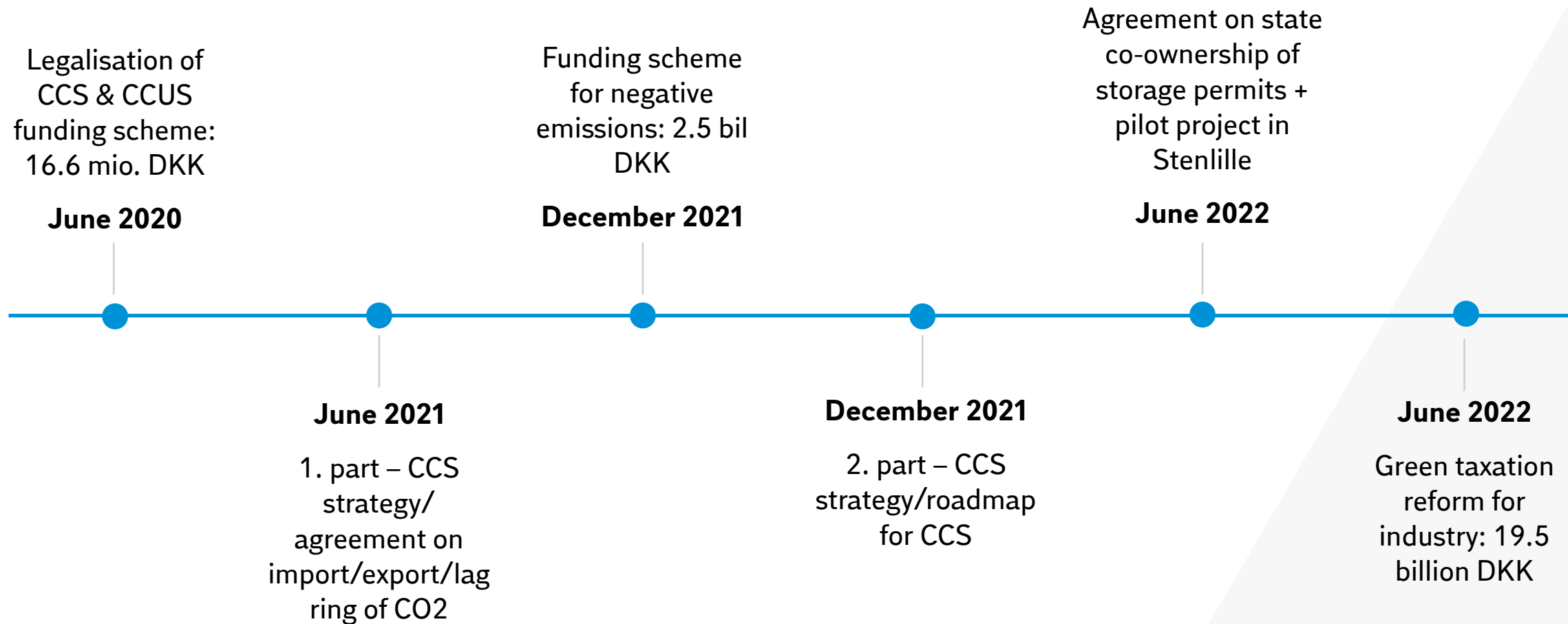


**PROBLEM**



**SOLUTIONS**

# Political agreements



**\*Total funding for CC(U)S of approx. 38.7 billion DKK (approx. 5,2 bill. EUR) in 2023 prices.**

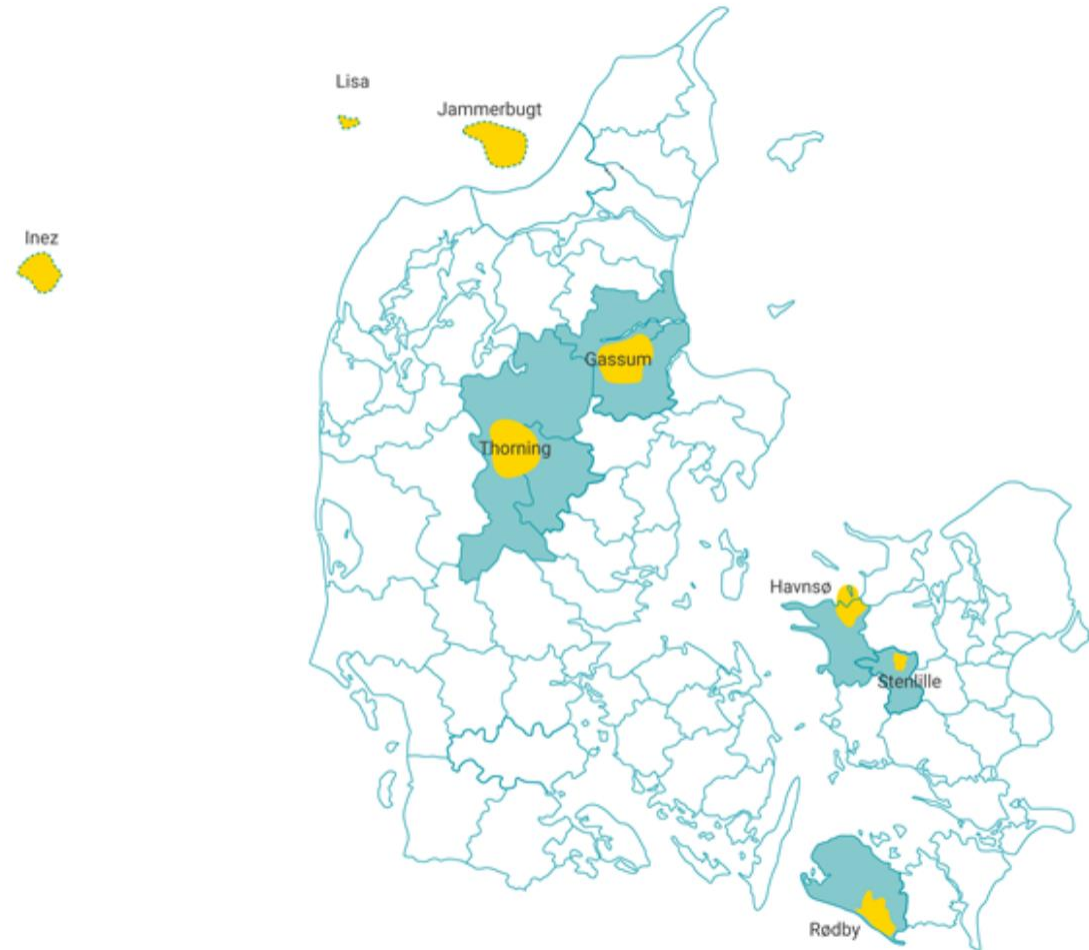
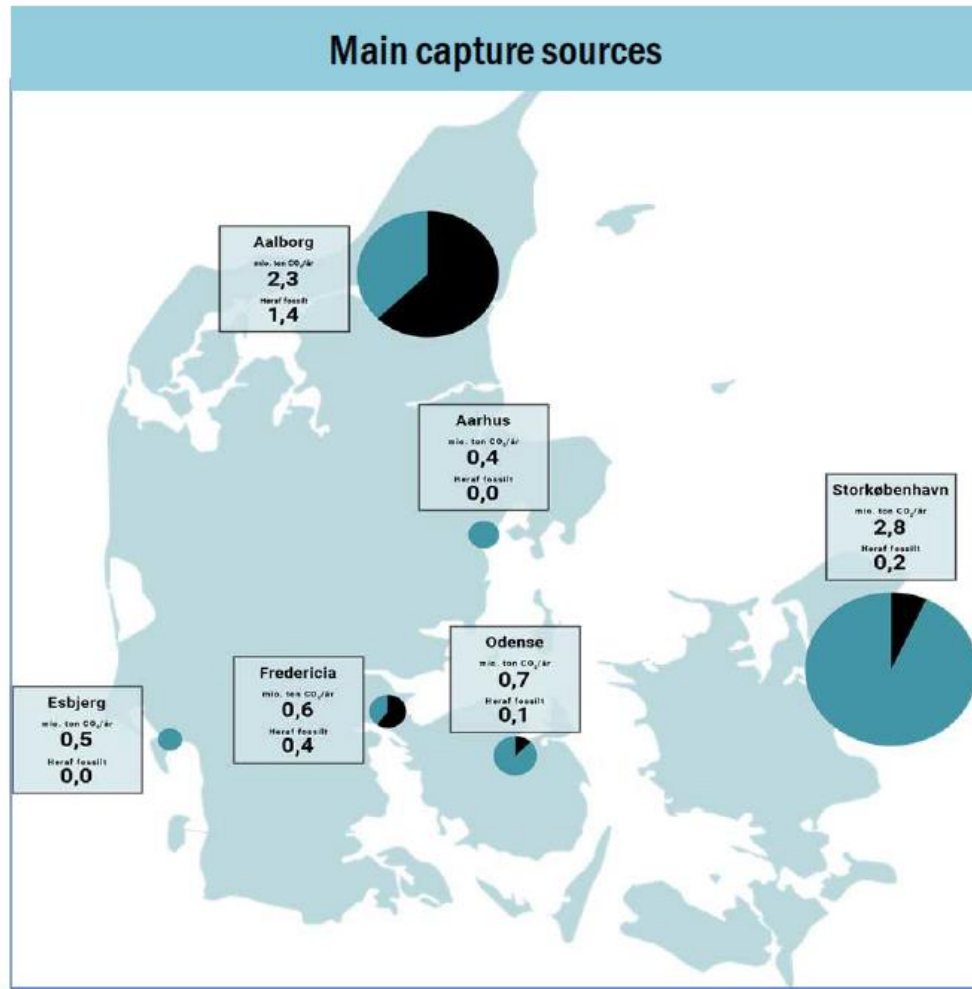


# Roadmap for capture, transport & storage of CO<sub>2</sub>

- Six cluster collaborations on CO<sub>2</sub> transport and infrastructure
- Local value chains for CO<sub>2</sub> capture, use and storage
- Stakeholder forum for CCUS
- Market-based rollout of capture and storage of CO
- Promotion of CCS through EU regulation
- Advancement of capture technologies in Direct Air Capture (DAC)

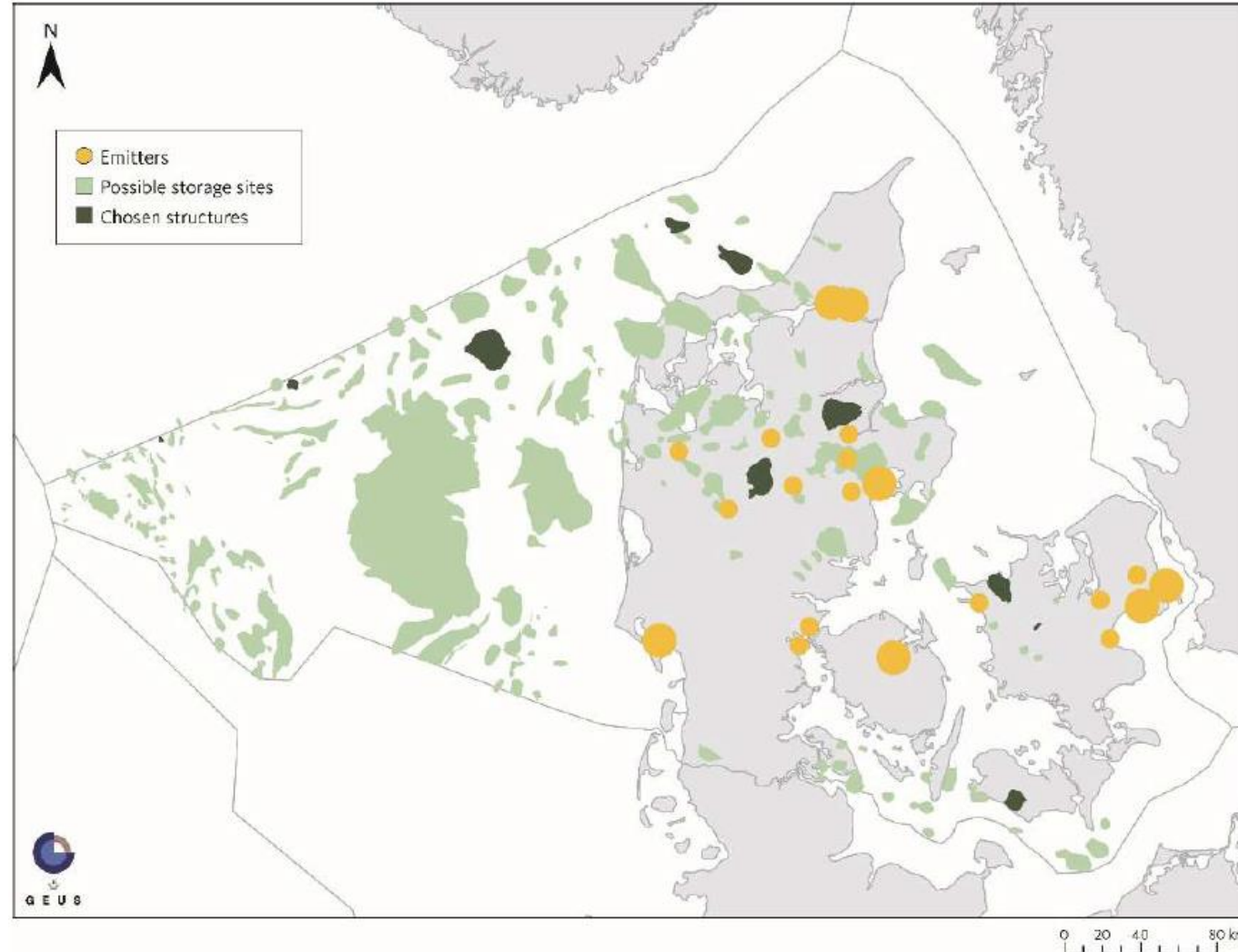
→ **Establishing Denmark as a European hub for CO<sub>2</sub> storage**

# Main capture sources & storage





# Main capture sources & storage



# CCS alliance

- 54 members along the entire value chain

## Goals:

- Knowledge sharing
- Create and strengthen relationships between Danish actors in the field throughout the value chain
- Investigate the possibilities of establishing PPP solutions
- Follow developments in the framework conditions closely
- Ensure a close dialogue with the responsible authorities

## Tools:

- Analyses
- Workshops
- Networking events
- Study tours



C A R B O N   C A P T U R E   S T O R A G E  
**A L L I A N C E N**

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

# Pilot projects

## Project Greensand:

- INEOS consortium (Maersk Drilling, GEUS, Wintershall DEA etc.)
- Storage capacity of 0,5-1,5 mio. ton CO<sub>2</sub> /y in 2025 and 4-8 mio. ton CO<sub>2</sub> /y in 2030.

## Project Bifrost:

- TotalEnergies consortium (Noreco, Nordsøfonden, Ørsted, DTU etc.)
- Storage capacity of 3 mio. ton CO<sub>2</sub> /y in 2027 and a long-term potential of 16 mio. ton CO<sub>2</sub>/y.

## Stenlille demo project:

- Storage capacity of 0,5 mio. ton CO<sub>2</sub> /y in 2025, total potential of 2,5 mio. ton.



**THANK YOU FOR YOUR ATTENTION!**



Dansk Industri