



Upscaling CCS in Denmark - Risk and challenges

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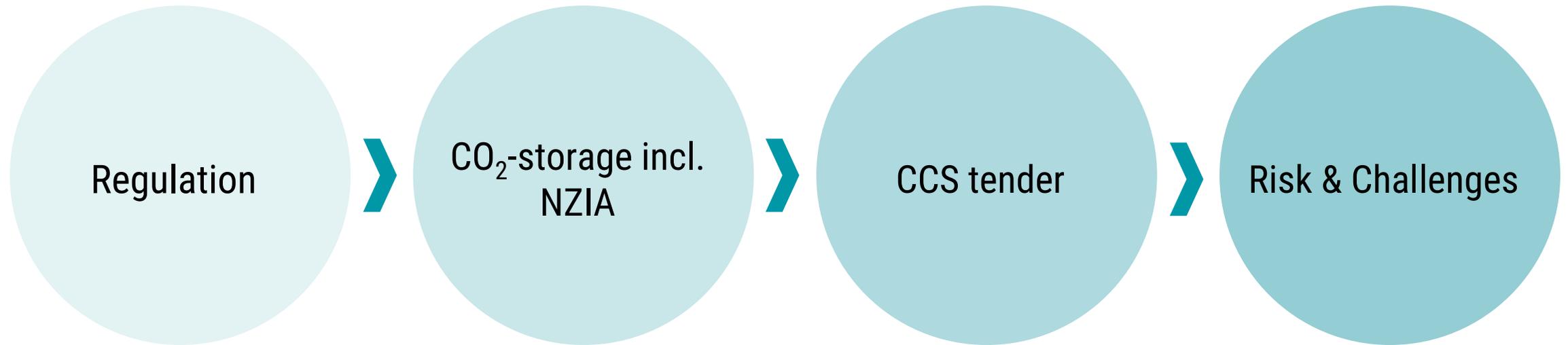
28. maj 2025



" OK THE HONEYMOON PERIOD "

" IS OVER "

Agenda



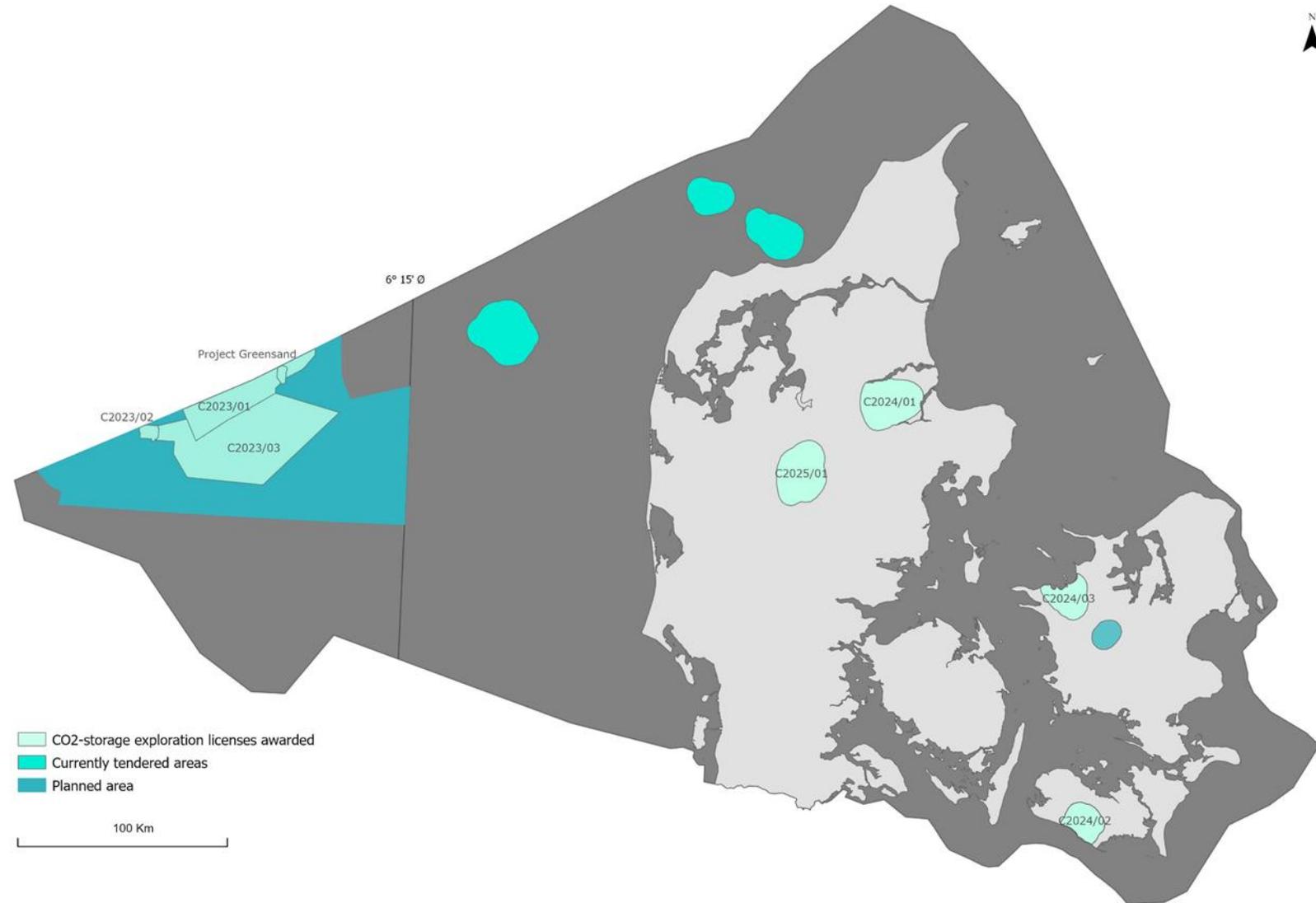
Current regulatory focus

- Clarity in the regulatory framework
 - › New Act on CO₂-pipeline infrastructure
 - › New Act on CO₂-capture activities in the utility sector
 - › Executive order on safety related to CO₂-pipeline infrastructure
- Project approval
 - › Mapping
 - › Effectiveness
- Need to have – nice to have

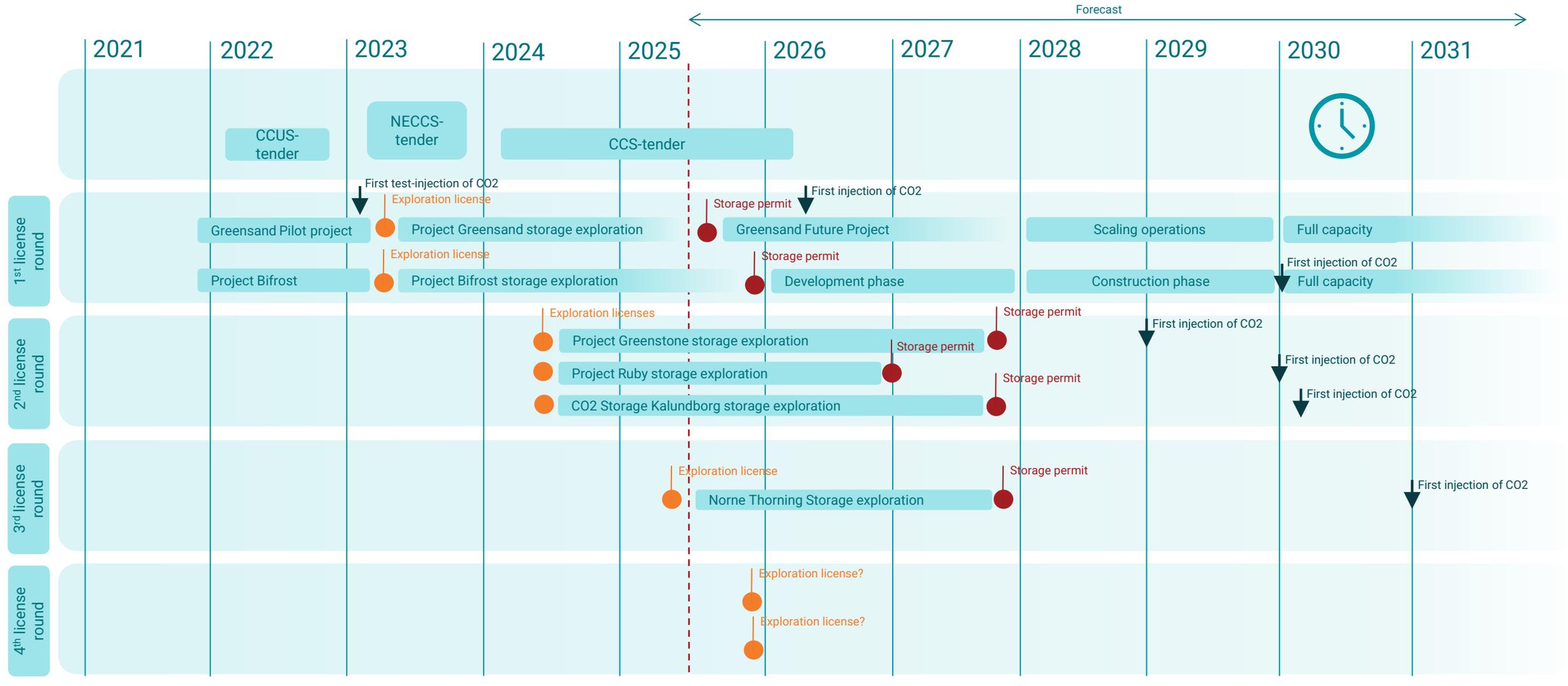


CO₂-storage status

- Nine CO₂ storage exploration permits
- One tender ongoing with in total three areas
- First CO₂ storage FID and application received (Greensand)
- Intensive work commitments
- Tight deadlines
- Public engagement



CO₂ storage in Denmark: The possible timeline



Net Zero Industry Act (NZIA)

- Delegated regulation dated 21st and 22nd of May
- By 30 June 2025, obligated producers must submit a plan containing means and milestones for implementation
- Annual CO₂ injection and storage capacity at a geological storage site by 2030
- Alone, in cooperation, or in agreements with other entities, third-party storage project developers or investors
- Sites must be permitted in accordance with the CCS directive (2009/31/EC)
- Annual progress reporting



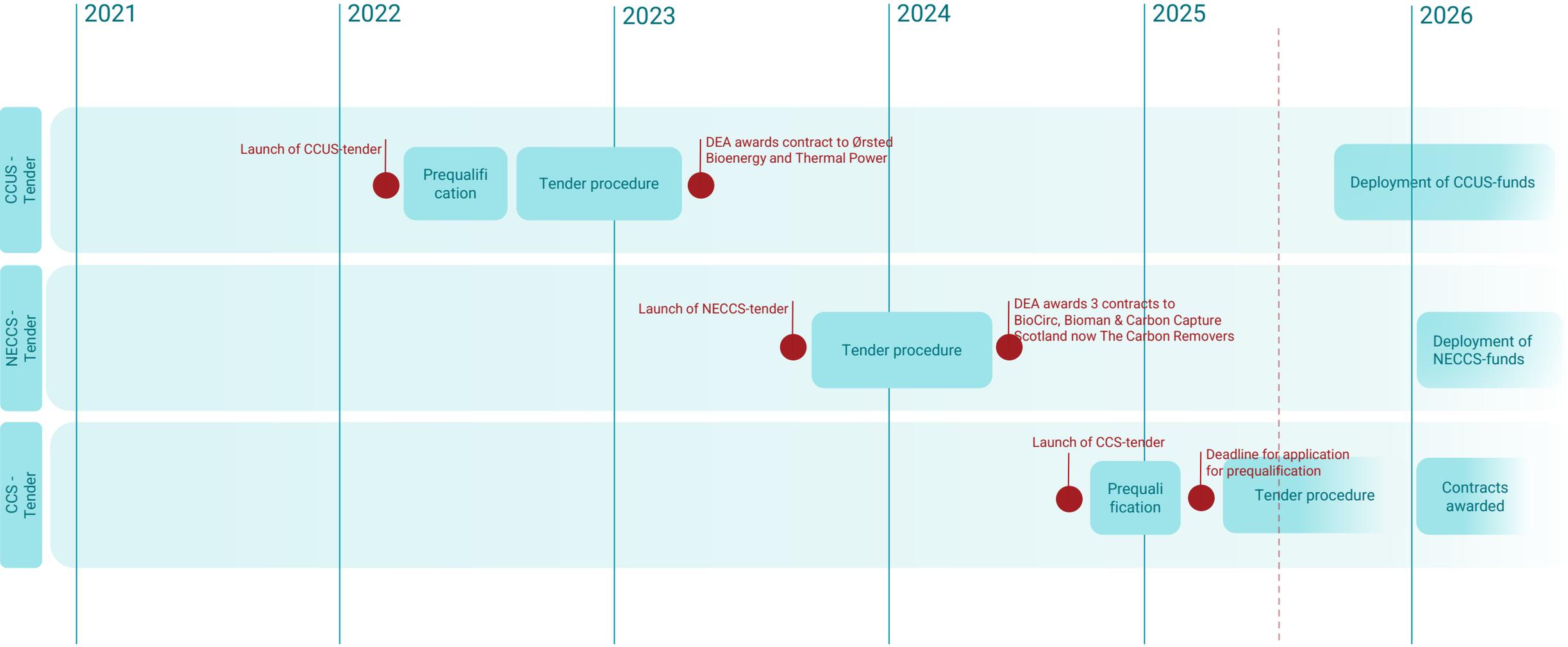
Companies in DK

Injection capacity mio tonnes per year*

TotalEnergies EP Danmark	1.570
BlueNord Energy Denmark	1.340
Nordsøfonden	0.730
INEOS E&P	0.500



Overview of the timeline of CCS funds in Denmark



CCS Fund

- The CCS Fund is scheduled for distribution between 2029 and 2044.
- The fund's total budget amounts to approximately 28.7 billion DKK (including VAT).
- 16 companies applied for pre-qualification
- 10 companies pre-qualified
- Next phase:
 - › The deadline for submission of initial bids (INDO) is 26 August 2025
 - › The deadline for submission of final and binding bids (BAFO) is expected to be 17 December 2025.
 - › DEA expects to award contracts in April 2026.



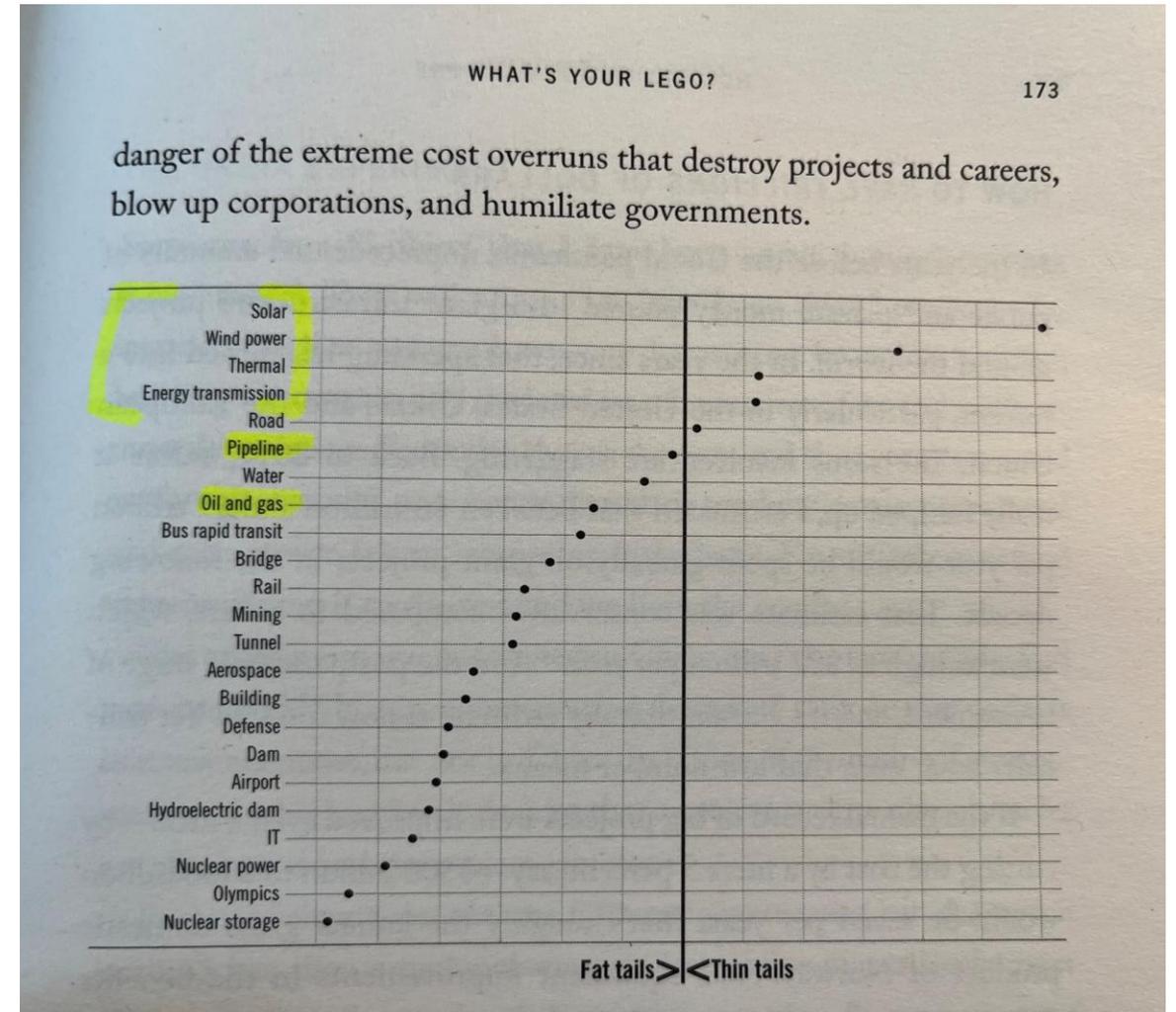
Illustration: Dansk Fjernvarme



Key risk and challenges in upscaling

- FID timing and interdependencies
- Permitting and approval bottlenecks
- Public trust and safety concerns

CCS is (not) unique



B. Flyvbjerg & D. Gardner: "How big things get done". (2023)

Thank you

