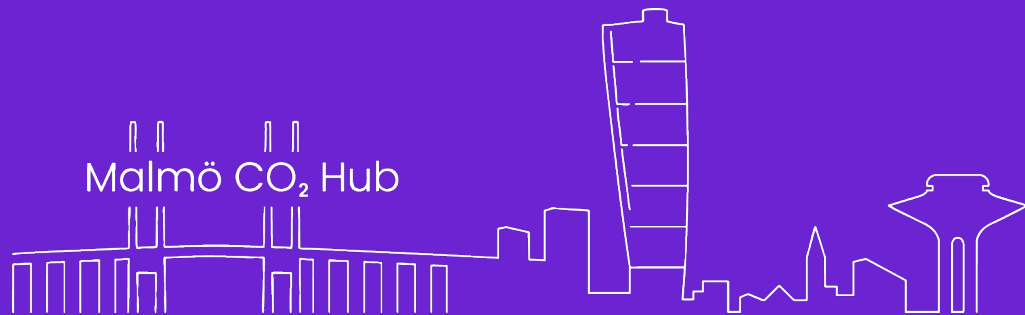


Gemensam infrastruktur för en effektivare värdekedja

Henrik Nebrelus
Projektägare



Nordion Energi

Powering a changing society – and making green energy available to everyone

Gas Infrastructure

Transition to biomethane to make grid 100% green

Electricity Grid and Fiber

Investing in grids to support green transition and digitalisation

Hydrogen Development

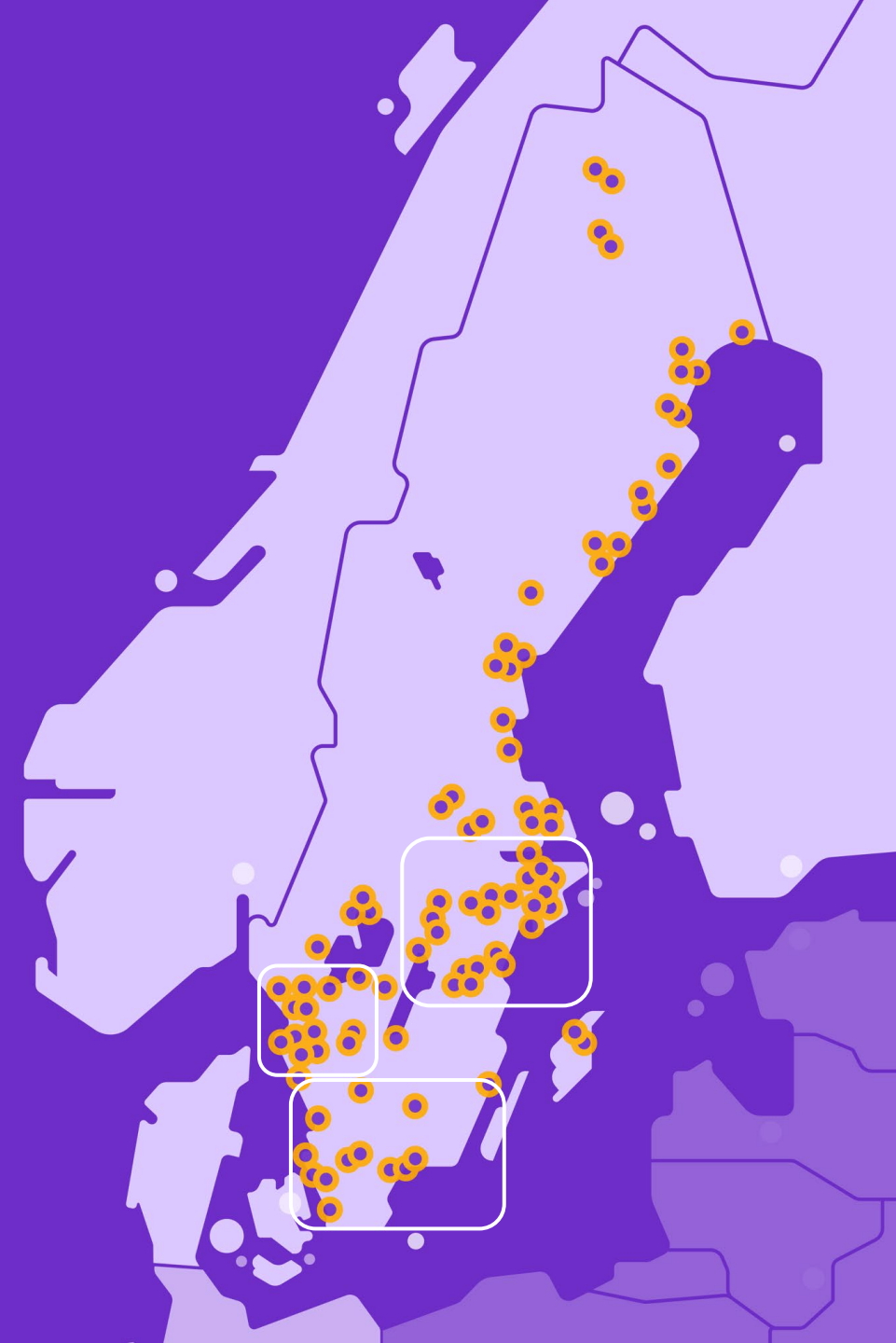
Creating a new hydrogen infrastructure

CO2 Infrastructure

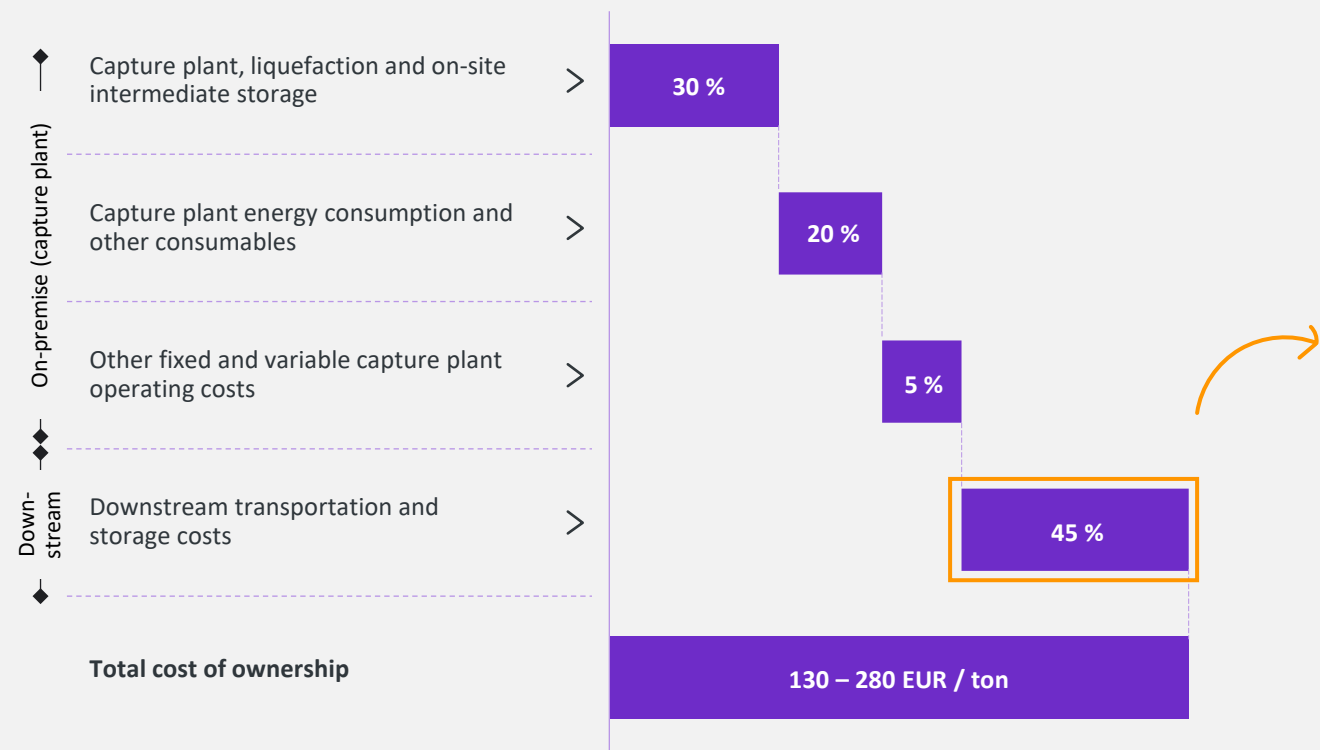
Making CCUS more cost effective through shared infrastructure

Why a hub for CO₂?

- Large and many CO₂ emitters are located across Sweden, with distinct cluster areas
- Cost for Transport & Storage make up ~50% of the CCS value chain with clear scale advantages
- The market is characterized by independent emitter projects, without a systematic approach
- Great risk of opportunity turning expensive and inefficient



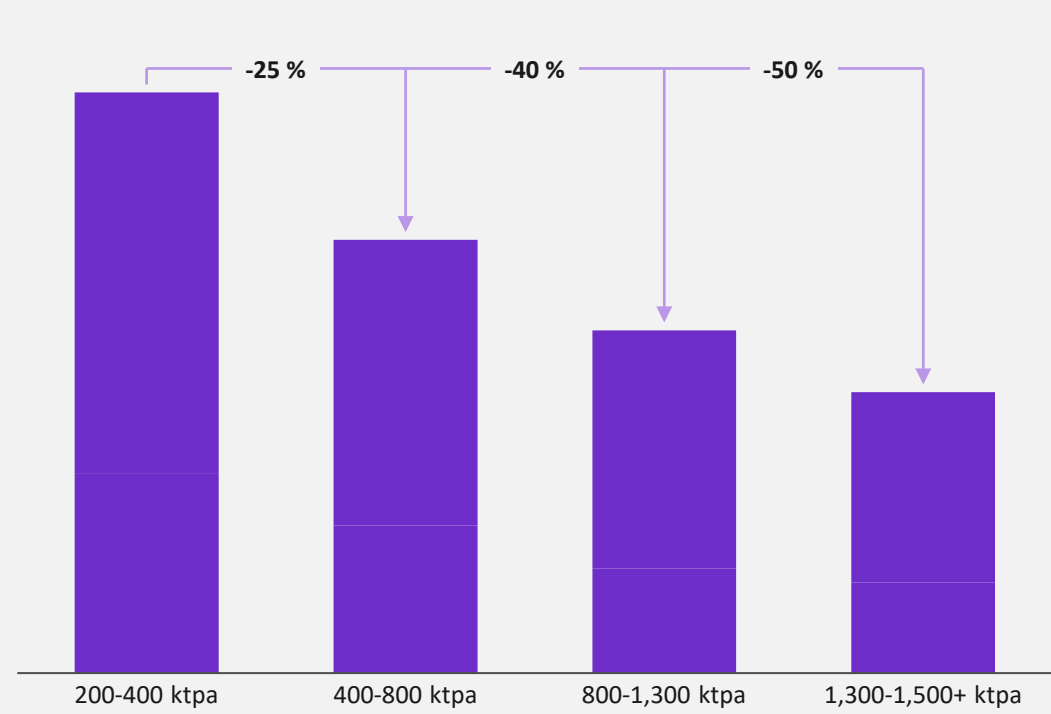
TCO Breakdown



...shared hub infrastructure

having potential to reduce total hub, transport and storage costs 25-50 %

Downstream transport, hub and storage tariff overview (EUR/t CO₂)



Evolution of the hub

Regional concept development

Malmö CO₂ Hub Project

CinfraCap

2020-2022

Funding support: 2.8 mSEK

Partners:



CNetSS

2022-2023

Funding support: 2.5 mSEK

Partners:



Feasibility phase

2024-2025

Funding support: 4.9 mSEK

Partners:



Pre-FID phase

2025-2027

Funding support: 31 mSEK

Partners:

NORDION ENERGI

Potential to grow

The first Swedish hub for CO₂ infrastructure connecting and optimizing the CCS value chain

- + Capacity of 1,5 mn tonne CO₂/year.
- + Accessible via train, pipeline, sea and road.
- + Possible synergies with other actors in the harbour.



Nordion Energi plan for a hub **investment decision** in 2027

~2027

Project development



The hub in **Operation** and utilized by several regional emitters

~2030

Operation



The hub gradually scale up with clear offer and third-party access to **all regional emitters**

~2035

Scaling up



The hub meets regional, national, and international **market needs**

~2040

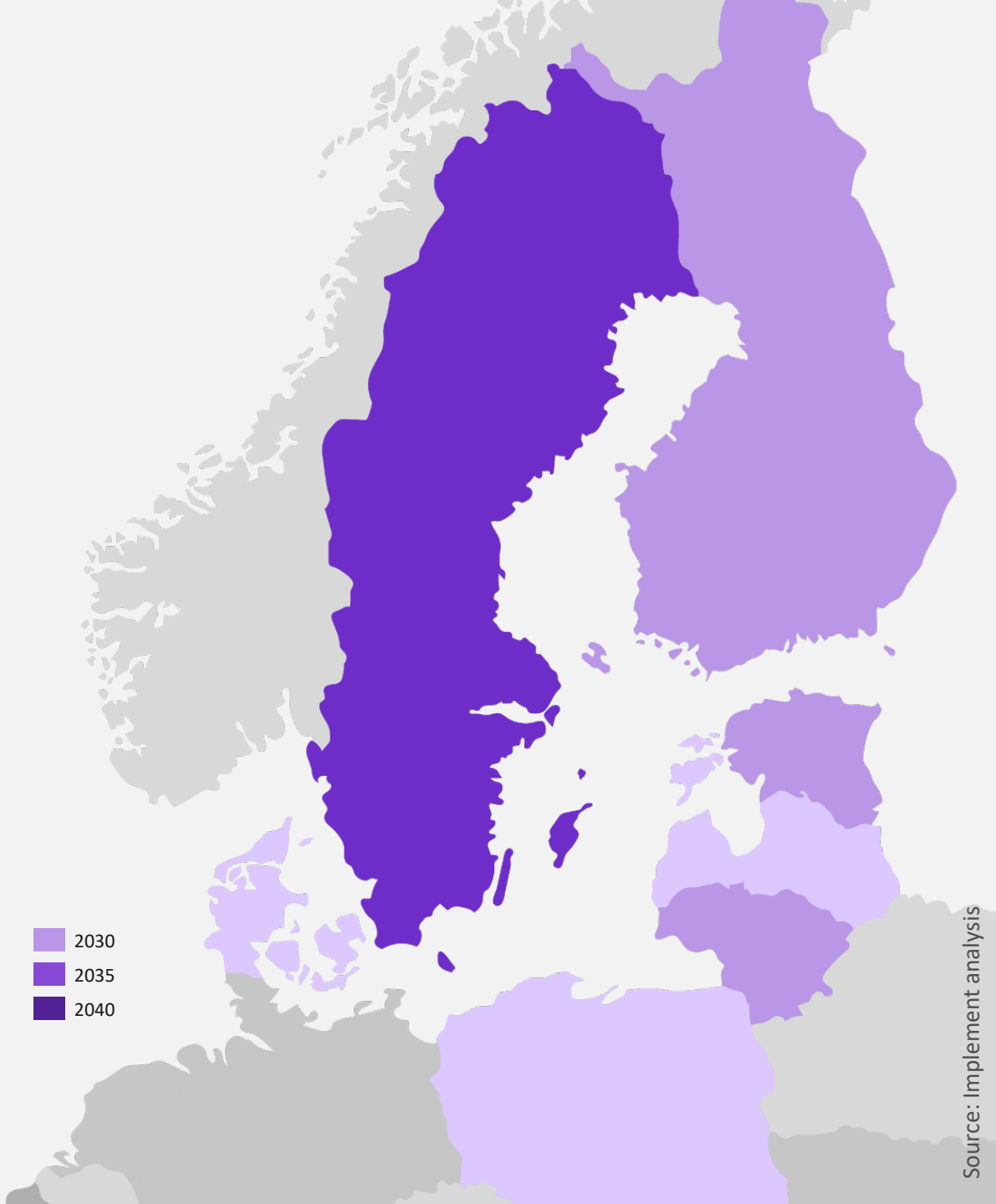
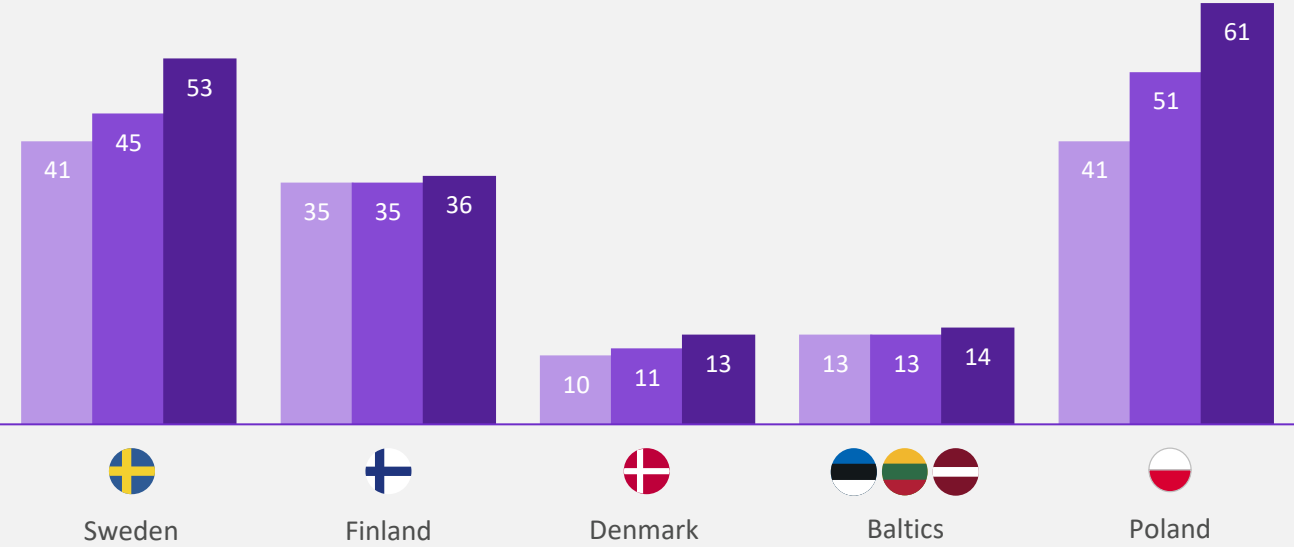
Expansion



Malmö CO₂ Hub – unlocking the potential

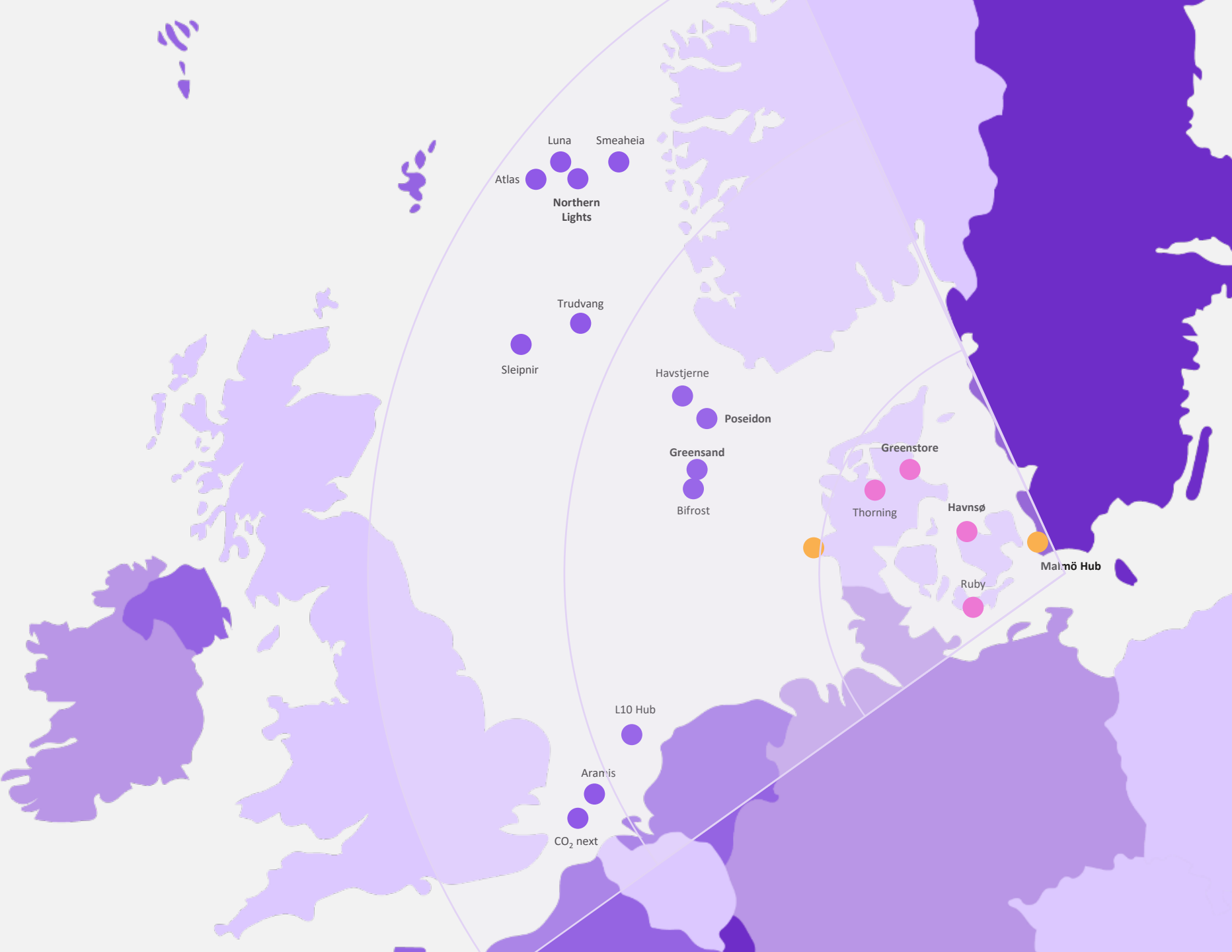
Baltic Sea Market potential

(mtpa)



High T&S capacity

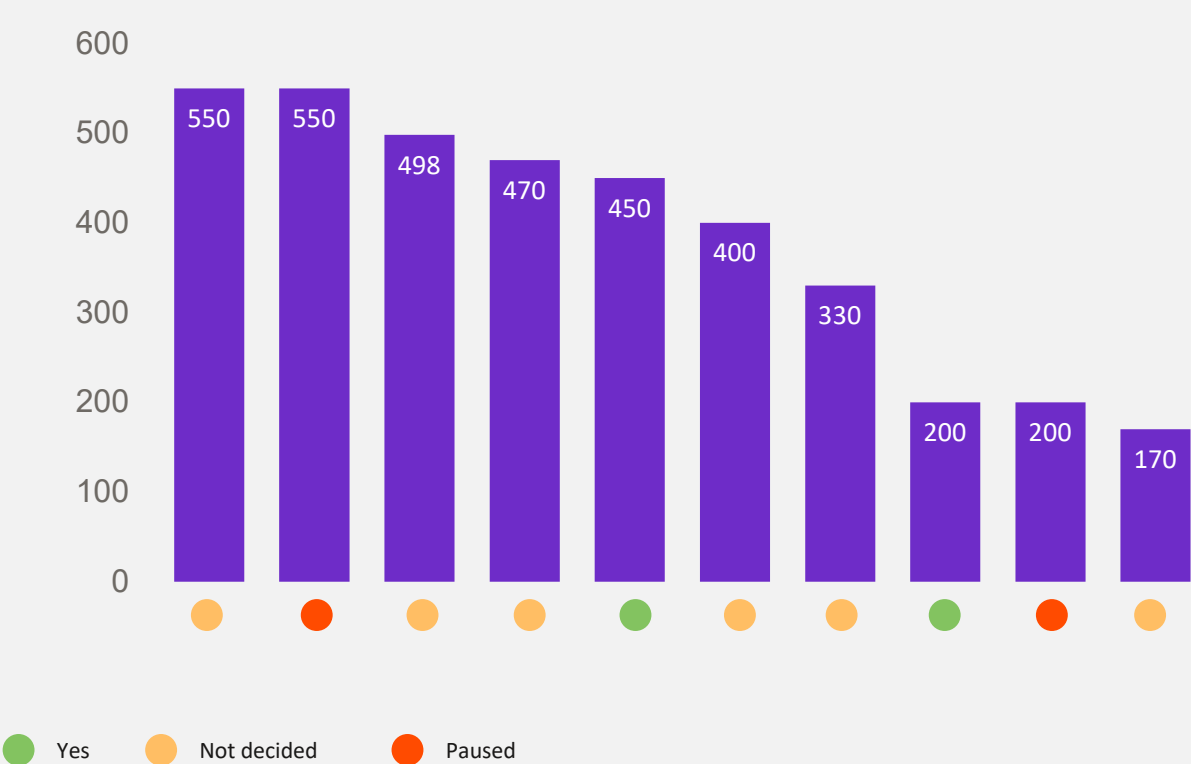
- Offshore
- Onshore
- Hub



Untapped potential

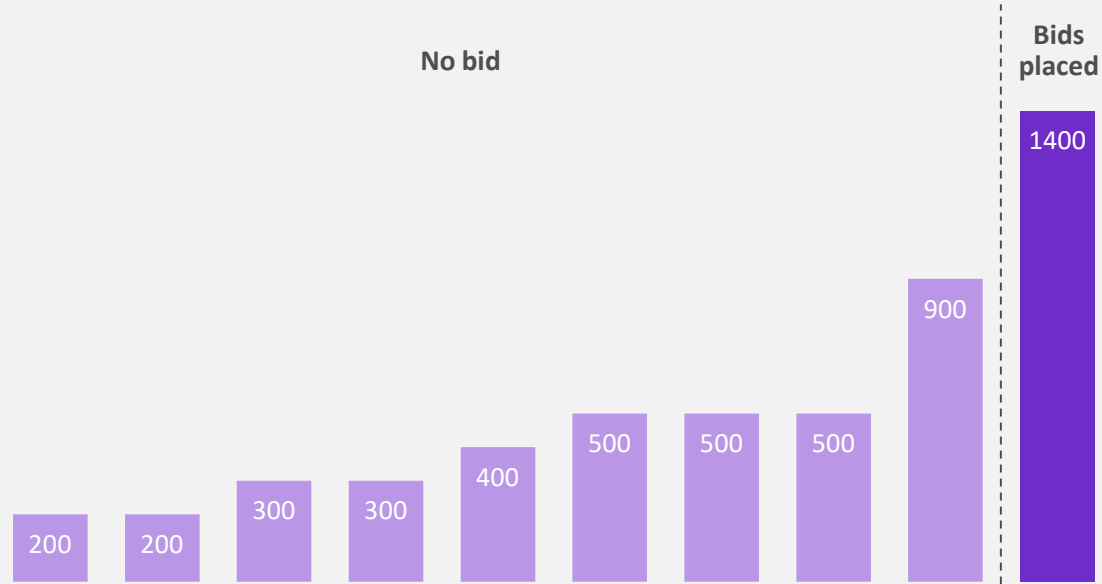
Swedish Auction

Project status on reverse auction (KTPA)

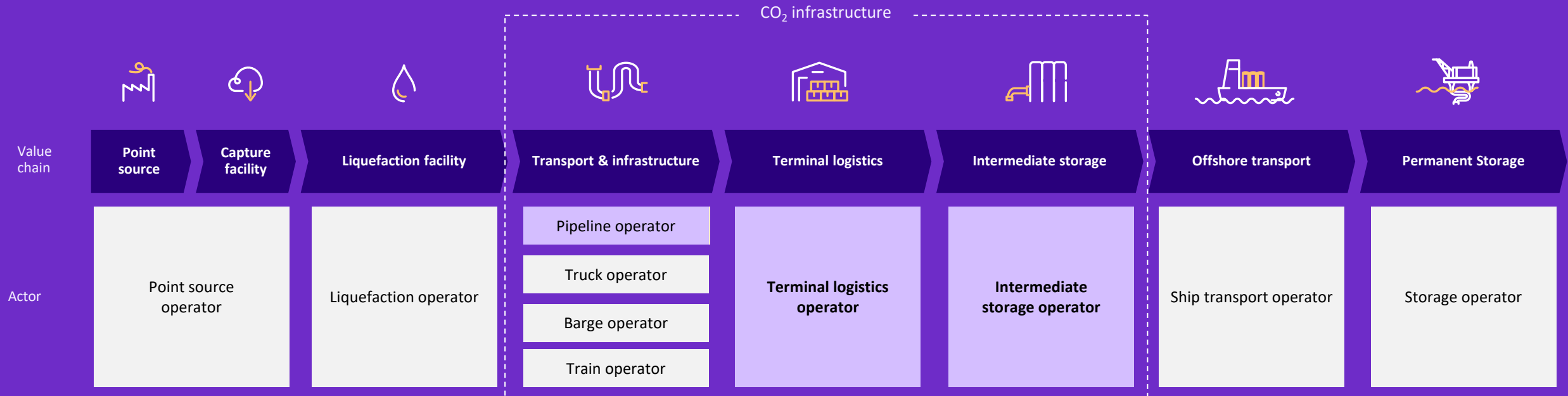


Danish Auction

Bid status (KTPA)



We unlock the potential by balancing the value chain!



Climate ambition, carbon capture strategies, and funding commitments are all in place. We just need to structure it differently.

Tack!

Henrik Nebrelus

Nordion Energi

Malmö CO2 Hub finansieras genom Industriklivet, som ingår i EU:s Facilitet för återhämtning och resiliens (The Recovery and Resilience Facility, RRF). RRF är ett inslag i Next Generation EU. Industriklivet är en regeringssatsning som drivs av Energimyndigheten.