

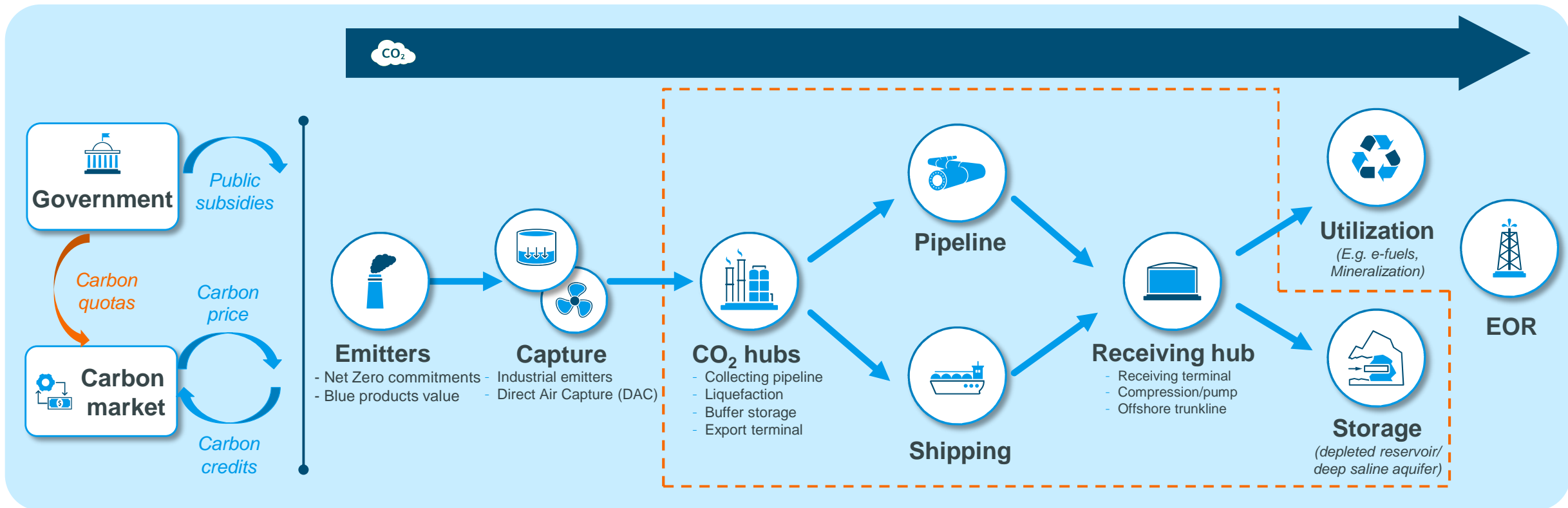
Bifrost

CO₂ Transportation and storage project

CO₂ Capture, Storage & Reuse 2023 Conference
Copenhagen – May 17th, 2023

Alexia Genin, TotalEnergies

CO₂ capture, transportation, storage and uses



Reducing emissions and developing a profitable business



Incorporating CCS in our assets

- Avoid emissions in greenfield projects
 - North Field East & South (Qatar)
 - Papua LNG
- Reduce emissions from existing assets
 - Ichthys (Australia)
awarded GHG storage assessment permit
 - Cameron LNG (US)
Hackberry Carbon Sequestration project under development
 - Refineries

Offering Carbon Transport & Storage services

- Build a profitable, scalable business and reduce Scope 3 emissions by offering CCS solutions to our customers
- North Sea core area
 - Under Construction, **Northern Lights**
 - Under development
 - Focusing on our depleted assets and saline aquifers
 - **Aramis (NL, op.), Bifrost (DK, op.), NEP (UK)**
- Worldwide growth options (US, Australia & Asia)

2030 target (Company share)

> 10 Mt/y

Growing investment to

~300 M\$/y

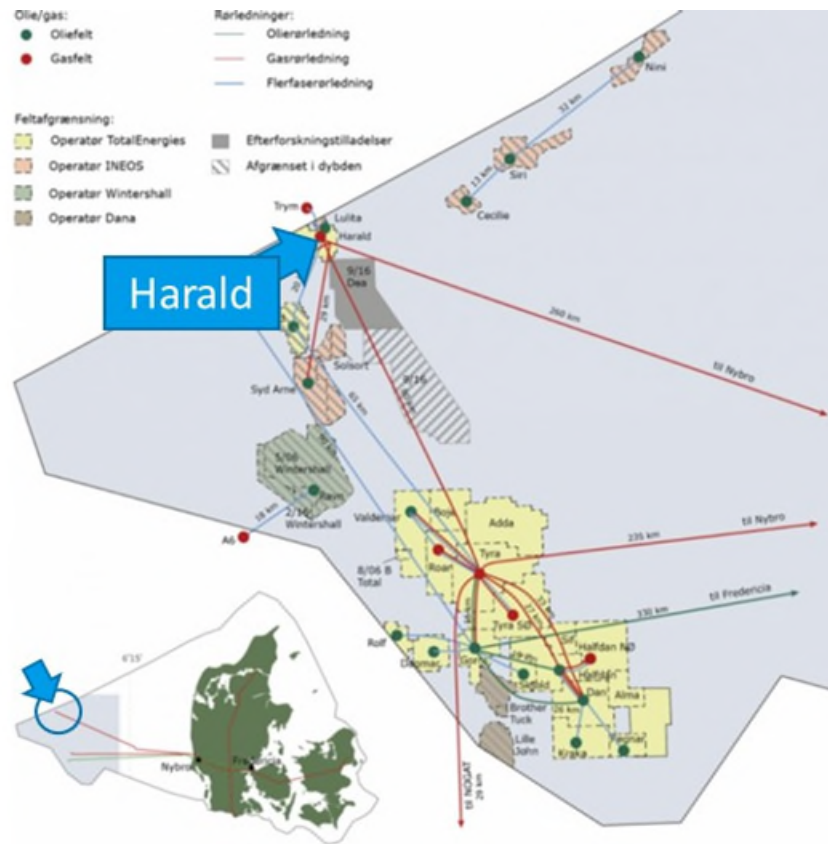
- Infra
- Terminal
- Storage
- Shipping



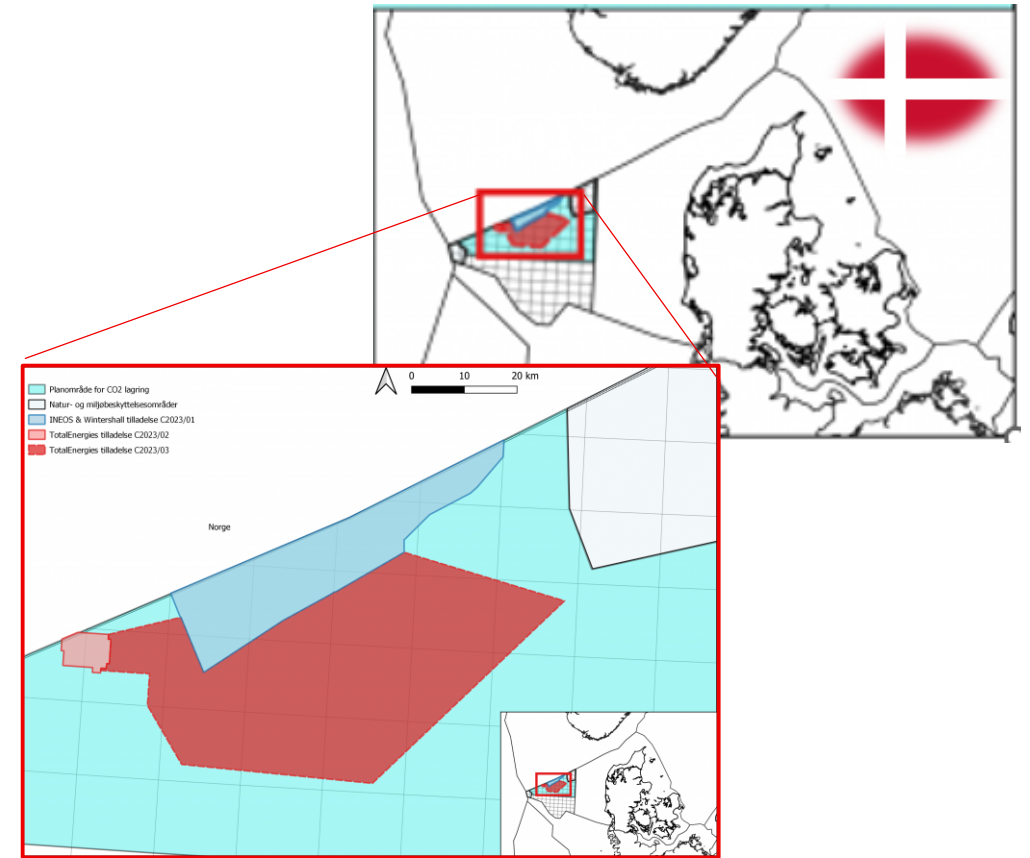
Bifrost storage, from R&D to large scale storage



Leveraging TotalEnergies-operated future depleted gas fields – ‘EUDP’ study scope

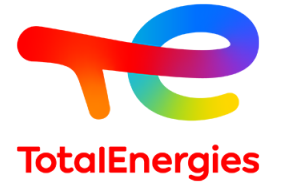


Larger offshore storage potential including saline aquifers, awarded February 2023



From early studies to PCI application

Leveraging Danish large storage potential for an EU decarbonized economy



Bifrost CO₂ transportation and storage project – PCI candidate

Connecting

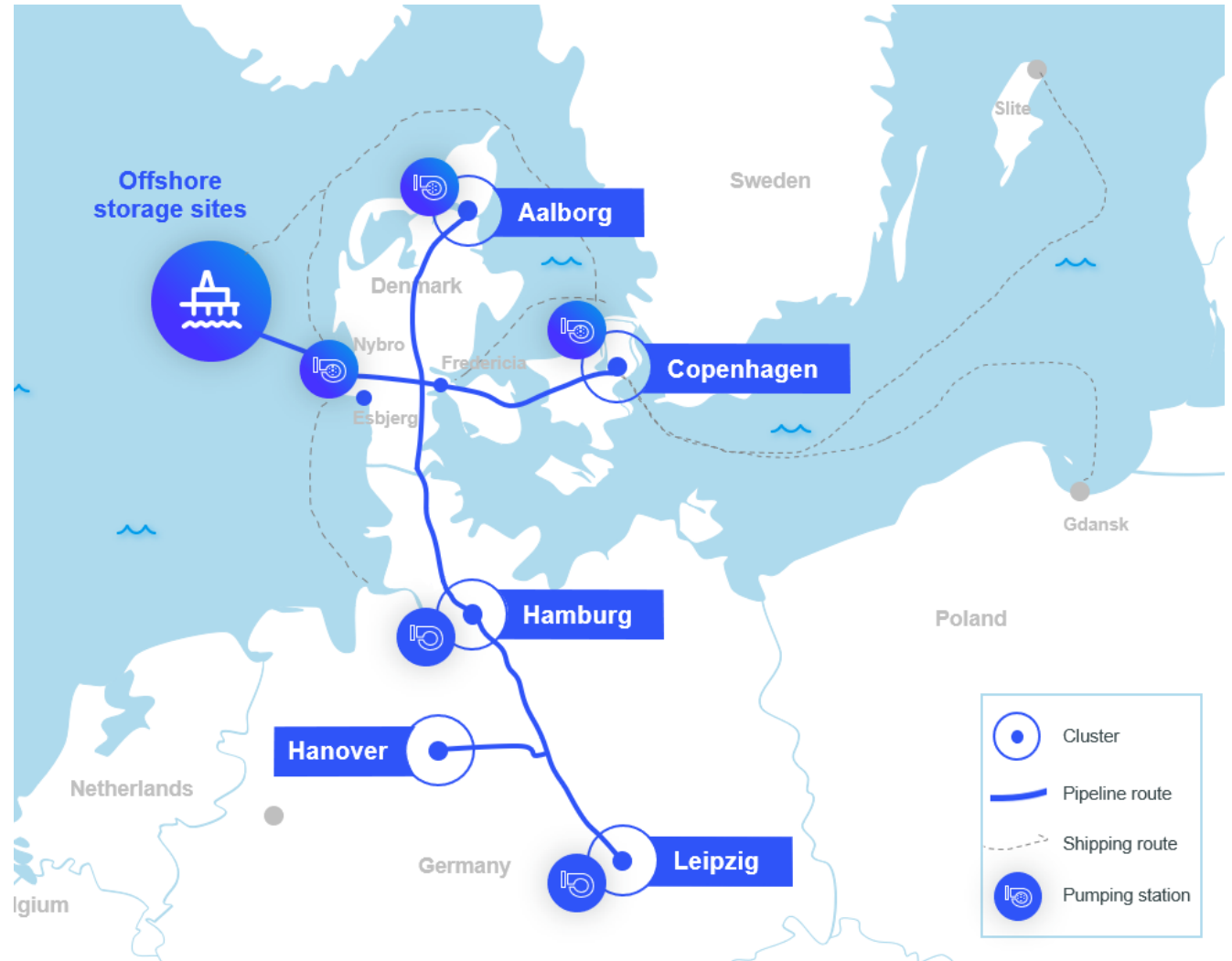
→ Denmark has **large CO₂ storage potential** saline aquifer structures and future depleted O&G fields

To

→ Northern Europe, an area of **concentrated CO₂ emissions**

Germany, countries around the Baltic sea (Poland, Sweden, etc.)

Building a large-scale and competitive cross-border CCS value chain by 2030



Avertissement - Propriété intellectuelle



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