



**Presentation to network group  
3/11-2022  
Mads Gade**



# AGENDA

- **INEOS background**
- Producing assets and future activities
  - Syd Arne and the HESS take over
  - Siri area activities and future
- Developments
  - Solsort
  - Hejre
- Project Greensand status

# INEOS Group overview



**\$65 bn** Sales



**25,000** employees



**39** Businesses



**66** million tons of chemicals capacity



**17** million tons of refinery products  
(360,000 bbls/day)



**10** million boe per annum

**183**  
sites  
worldwide

**31** Countries

**89** sites  
in  
Europe

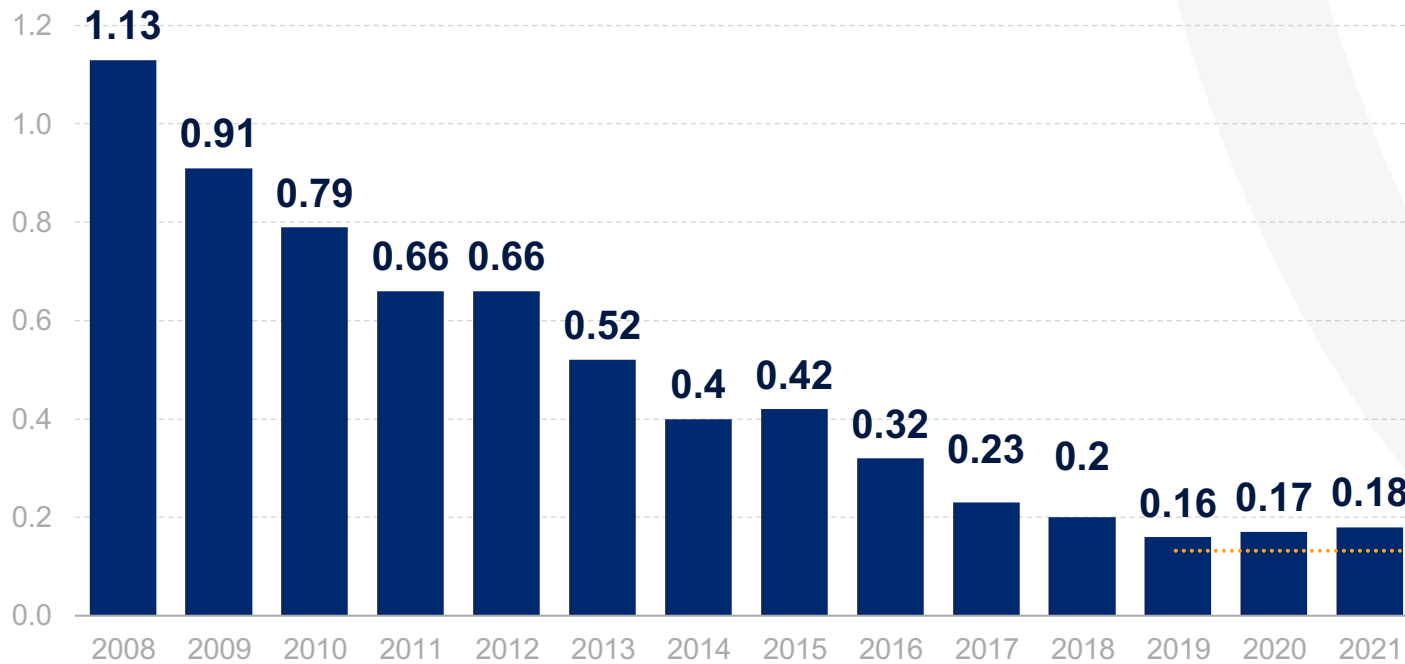
**36** sites  
in Asia

**58** sites  
in  
Americas



# INEOS safety performance

OSHA Recordable Rate Per 200 000 hrs:  
Employees + Contractors

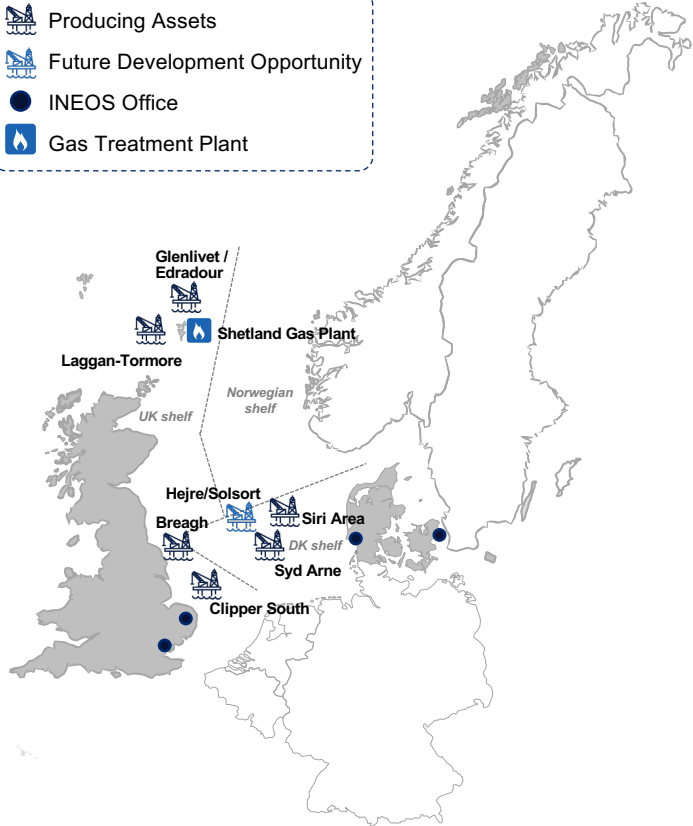


World Benchmark  
**0.16**

# Oil & Gas Assets

## Key Activity Overview

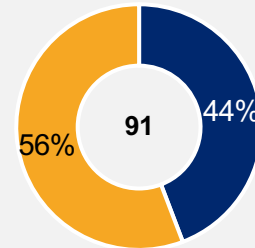
-  Producing Assets
-  Future Development Opportunity
-  INEOS Office
-  Gas Treatment Plant



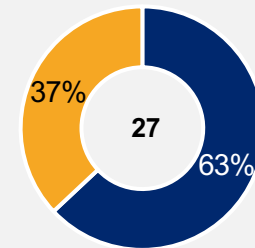
## Highlights

- Balanced portfolio with strong cash flow generation
- Key producing assets:
  - INEOS Operated: Breagh, Clipper South, Syd Arne
  - Non-operated: Greater Laggan Area (TotalEnergies operated)
- Around 90% of 2P reserves operated by INEOS
- Developing Carbon Capture & Storage (CCS) in Denmark
- Owner and operator of Forties Pipeline System (FPS)

YE2021 2P Reserves (mBOE)



2021 Production (kBOE/d)



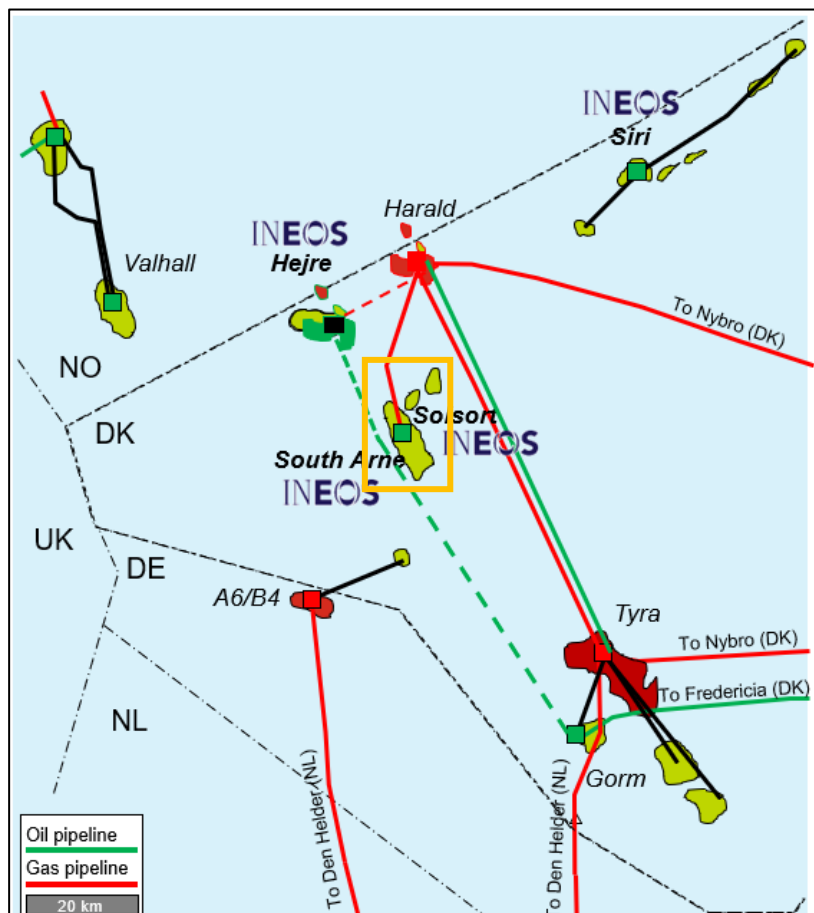
■ UK ■ Denmark

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# Syd Arne licence

## History, key facts and key data



### History

- Syd Arne first oil 1999
- Satellite platforms online 2013
- INEOS E&P A/S Operator 30 Aug 2021
  - 98.3% ownership
  - Danoil Exploration A/S only Partner

### Key facts

- Integrated production platform + satellites
- Chalk reservoir
- 60 meter water depth
- Total well stock of 32 wells (prod/inj)
- High Production Efficiency



# Syd Arne licence

## Status and ongoing activities

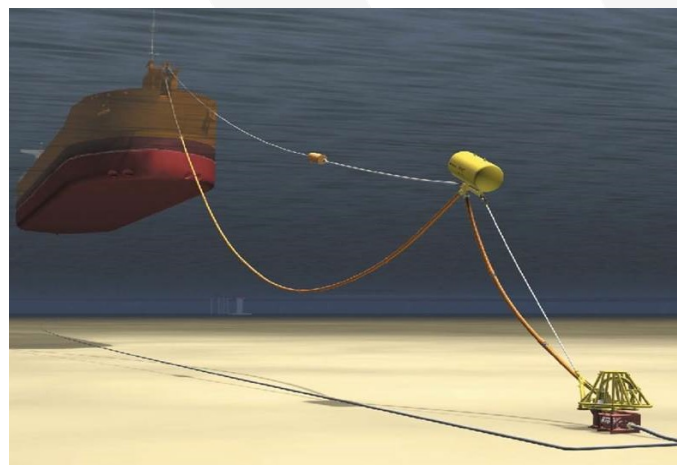
### Status

- Current production approx. 7000 bbls/d oil and associated gas\*
- Focus on safe and reliable operations
  - INEOS new Operator since Sept 2022
    - Zero lost time incidents
    - Maintain high production efficiency
- Transition of operatorship completed
- Extensive well intervention campaign during 2022
  - Valve repairs, Health Checks and Production improvement

### Ongoing activities

- Well intervention planning & execution
- Ekofisk West Flank well planning incl. seismic reprocessing
- Solsort field tie-in
- Maturation of further tieback opportunities

\* App 80/20 split





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# Siri Area

Name	<u>Cecilie</u>	<u>Siri</u>	<u>Stine-1</u>	<u>Nini A</u>	<u>Nini E</u>
License	16/98	6/95	6/95	4/95	4/95
Owners <sup>1)</sup>	INEOS: 56.410% DEA: 43.590%	INEOS: 100%	INEOS: 100%	INEOS: 57.143% DEA: 42.857%	INEOS: 57.143% DEA: 42.857%
1 <sup>st</sup> oil	Aug 2003	Mar 1999	May 2004	Aug 2003	Feb 2010

- Production since 1999
- Mature area ideal for CO2 storage
- Life extension through well workovers to extend life to bridge to CO2 potential

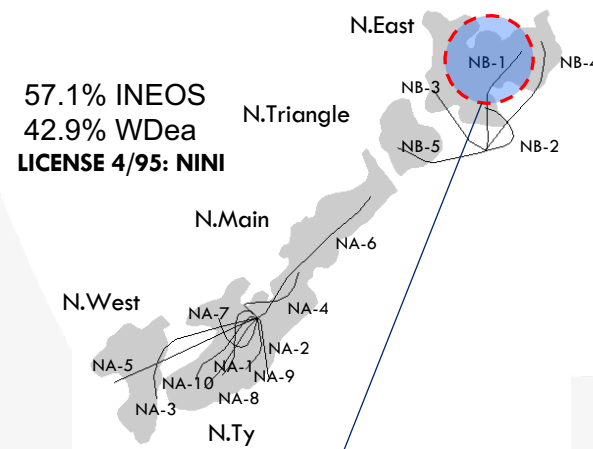
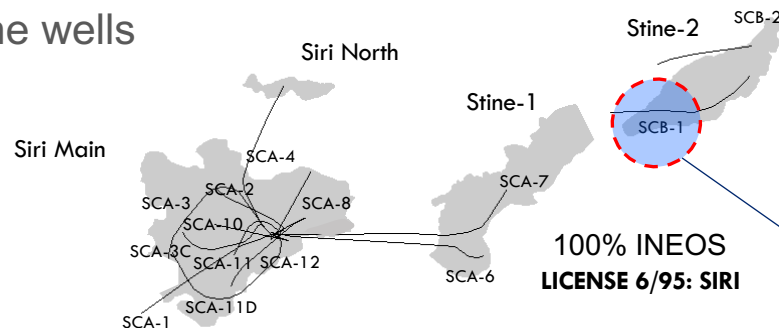
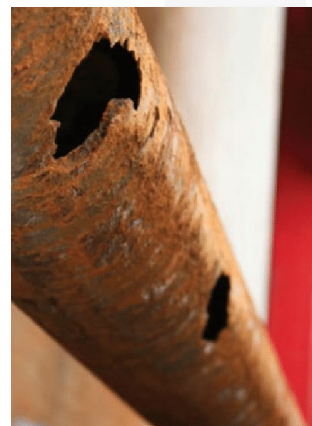
# Siri Area – 2023 well workover campaign

Two previously good producers currently shut in due to tubing corrosion

- SCB-01 production shut in mid-2021
- NB-01 production shut in mid-2020

## Opportunity

- Replacement of NB-01 & SCB-01 upper completion strings to re-establish well integrity, and re-open the wells



NB-01 tubing replacement

SCB-01 tubing replacement

- Achieve alignment between Siri Area Cease Of Production and Greensand Full Scale

# Siri Area – 2023 operational principles & highlights

## Siri Area operations

- Maintaining high reliability (95%)
- Continue operating philosophy to re-inject all produced water
- No Lost Time Incidents
  - Celebrating 5 years with no LTI in July 2022)
- Expanding lifetime of equipment by effective Risk Based Inspections where applicable
- Maintaining economical production – two well workovers in 2023

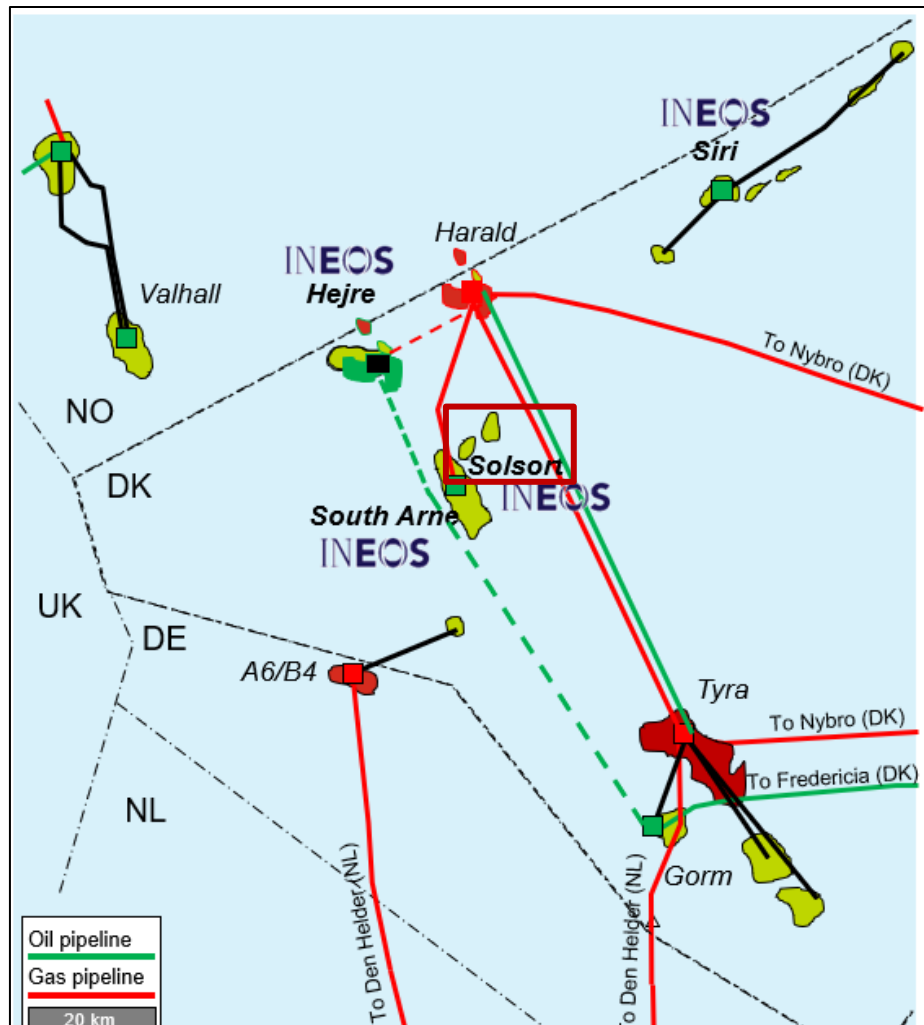
## CO2 host potential

- Pilot CO<sub>2</sub> injection in Nini satellite during Q1
- Pilot is segway to building a new business for permanent CO<sub>2</sub> storage - infrastructure synergies upon cessation of production
- Authority response to application for CO<sub>2</sub> exploration license expected during Q1

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# Solsort Development



- INEOS operated 67% share
- Solsort oil discovery
  - Oil discovery in 2009
  - Phased development of Solsort
    - West Lobe Development in 2023-2024
    - East Lobe accumulation contingent on West Lobe development performance
- Regulatory commitments
  - (PDO) of Solsort West Lobe approved by DEA September 2022
  - Final Investment Decision (FID) taken by Solsort Unit partners in September 2022
  - Rig committed and contracts are being placed



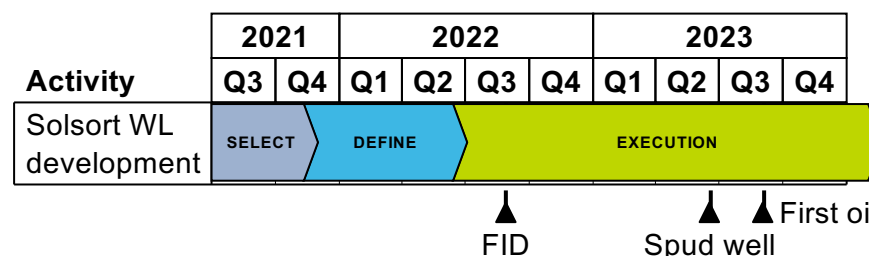
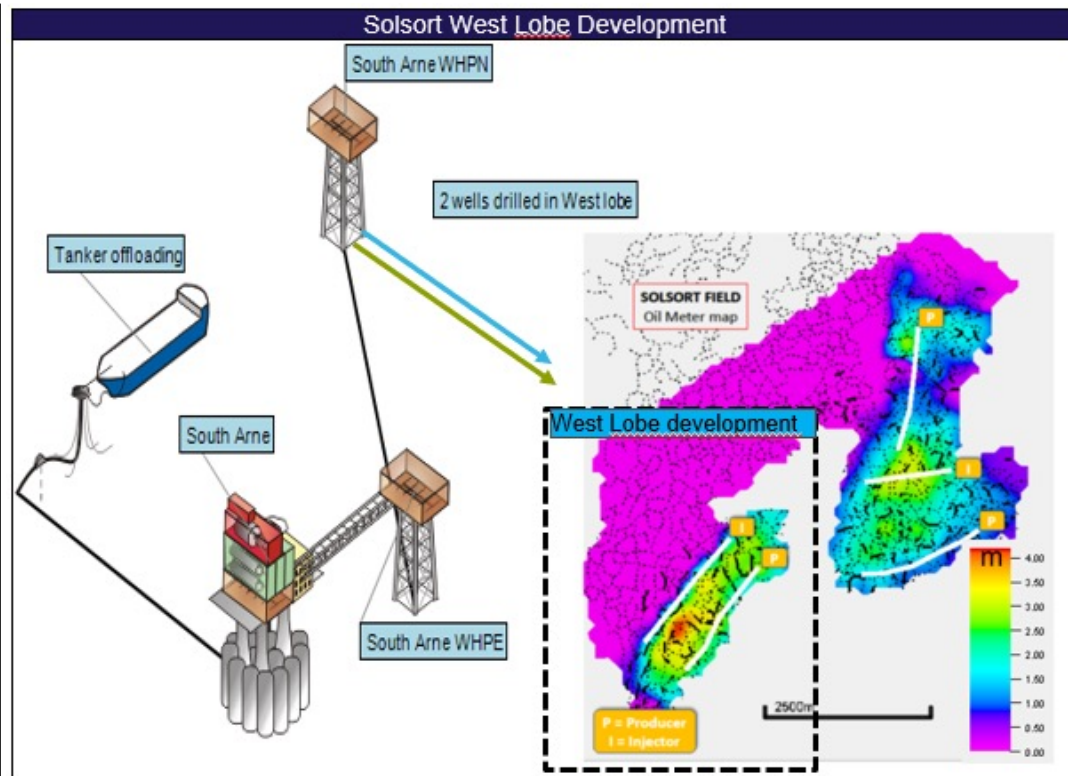
# Solsort development concept

## Development Concept

- Drilling of one oil producer and one water injector from Syd Arne WHPN
- Tie back to Syd Arne production facilities
- Export utilizing Syd Arne export facilities

## Status & Outlook

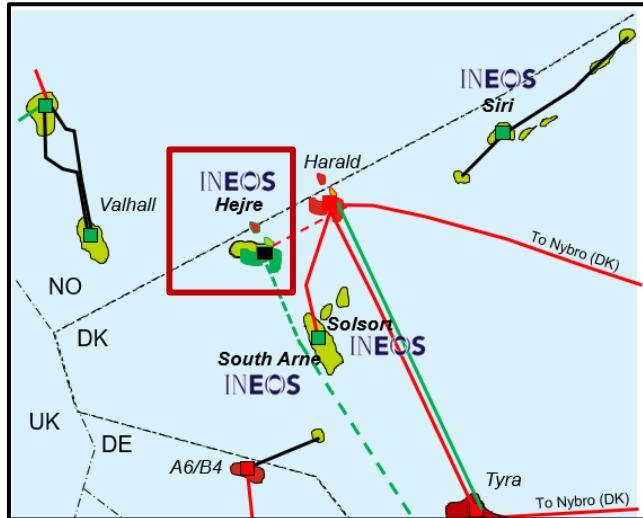
- Currently in EXECUTE phase
- Drilling to commence Q2/Q3 2023
- Syd Arne brownfield modification to commence Q2 2023
- First Oil Q3/Q4 2023
- Hand over to Operations expected Q1 2024



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# Hejre asset summary



- Two licenses both expiring 2040
- INEOS operated with 100% ownership
- License 5/98 oil discovery
  - HPHT field
  - Initial field development terminated 2016
  - Infrastructure in place from initial field development for potential use
    - Jacket + well bay module
    - Wells (3 wells ready for production)
    - Pipelines
- Regulatory commitments
  - Submit updated Plan for Development and Operation (PDO) by end 2022

# Hejre Development

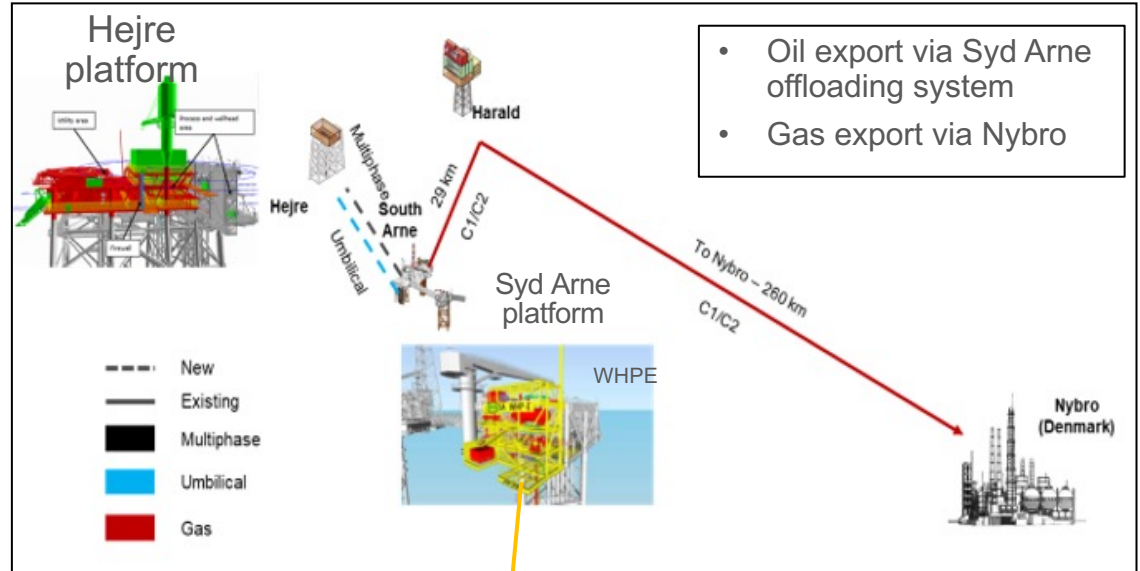
## Hejre tie-back to Syd Arne platform

### Development Concept

- New Hejre Unmanned Topsides
- New process facilities to be installed at Syd Arne
- New pipeline between Hejre and Syd Arne WHPE
- Power from Syd Arne

### Status & Outlook

- Currently in concept selection phase
- Capacity available after Solsort peak production



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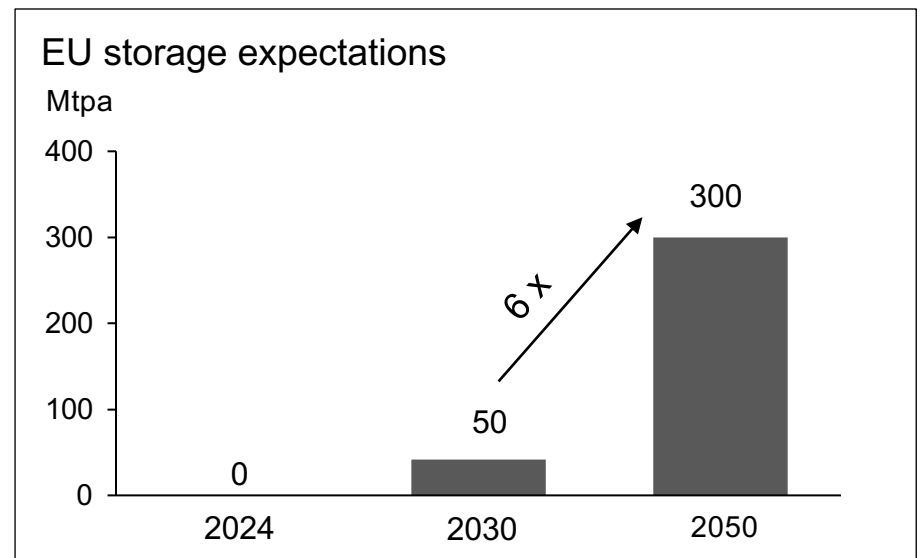
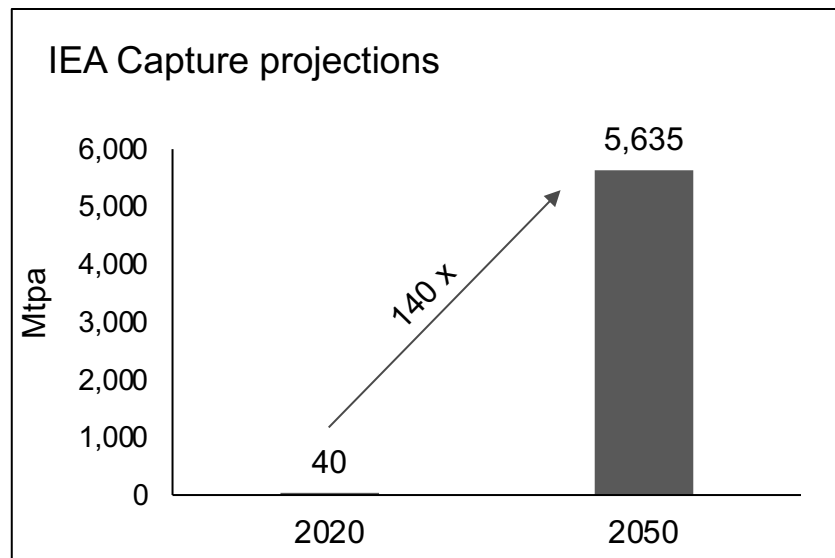
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# Global CCS Summary

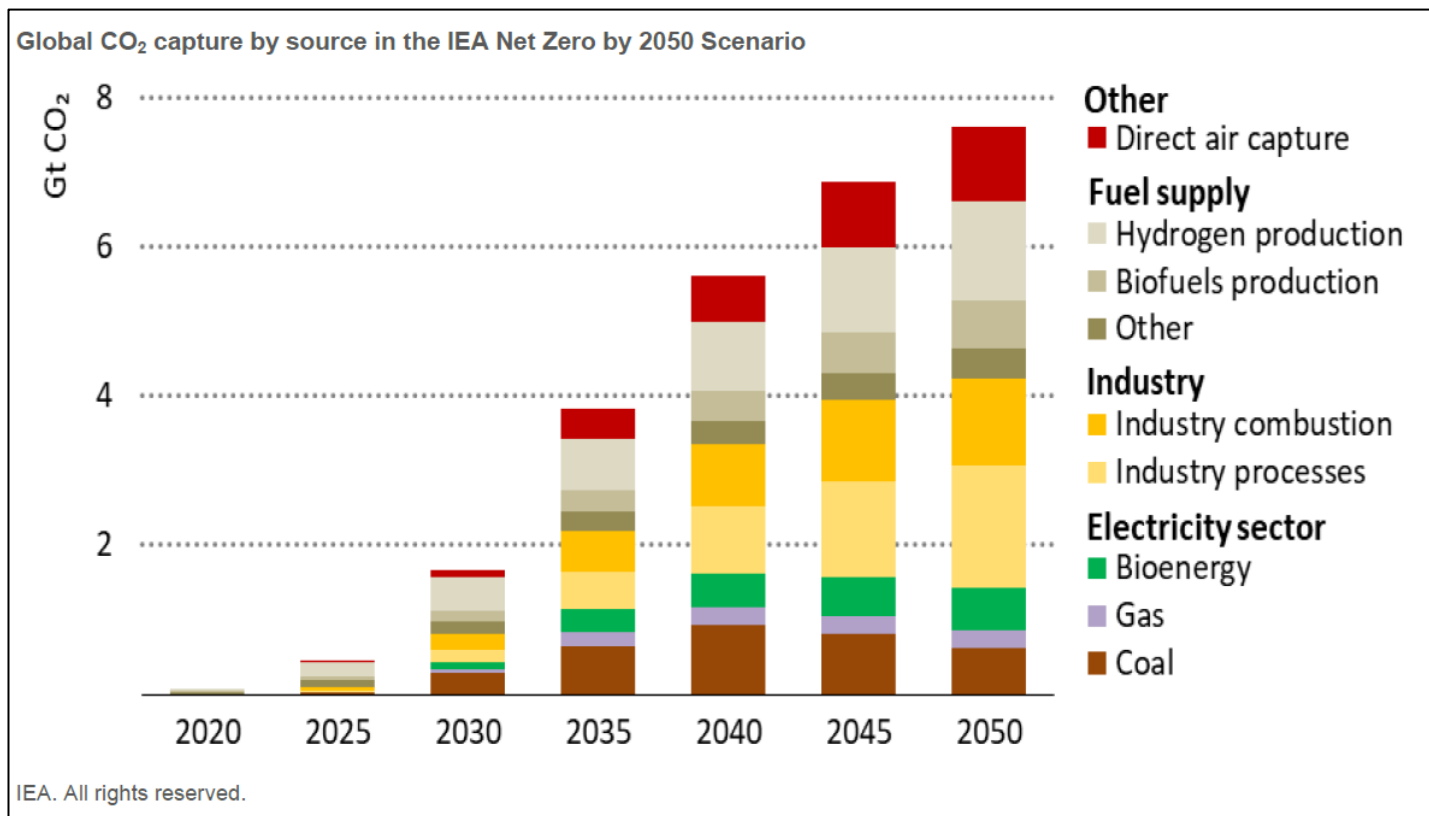
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- 30 Operational CCS projects in the world – half in the US – with no pure climate projects yet
- Majority of projects worldwide in Natural Gas Processing and Coal Fired Power Plants
- Currently storage of 40 Mtpa
- Expected to increase by 140 times until 2050
- CCS seen as critical ‘climate tool’ by governments





# Reaching Climate Targets Only Possible With CCS



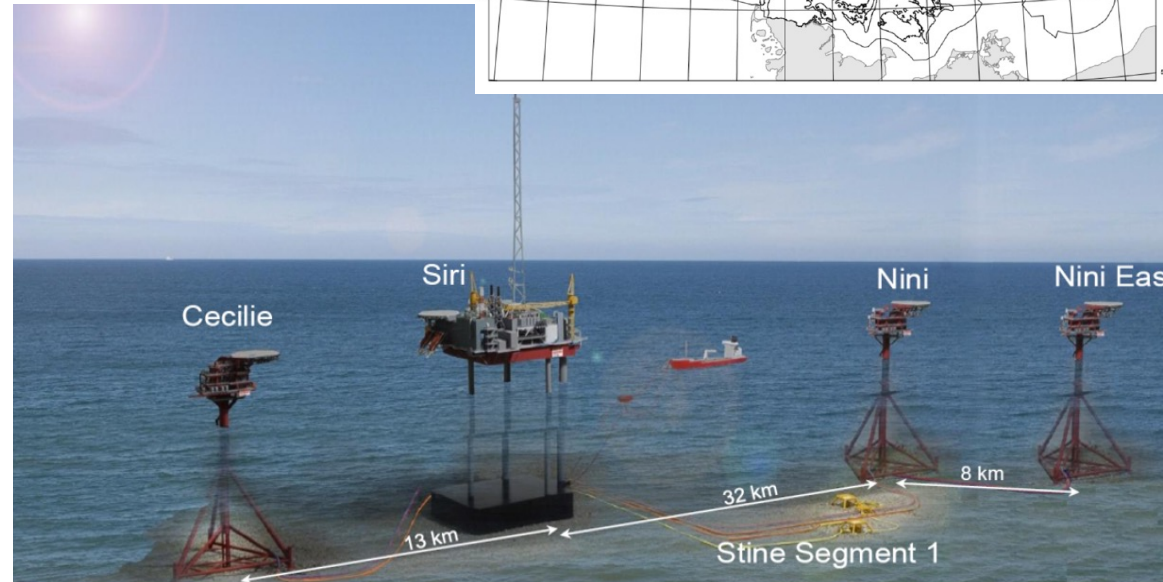
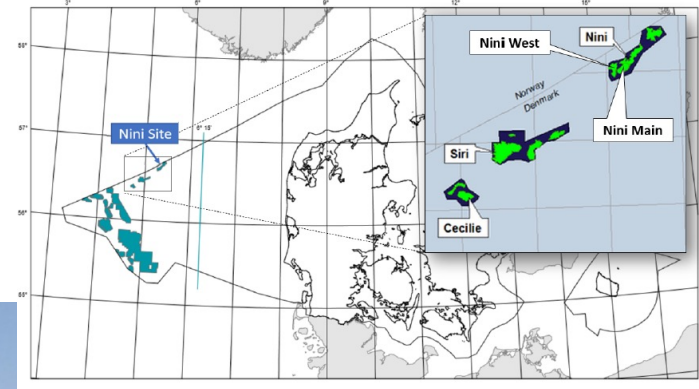
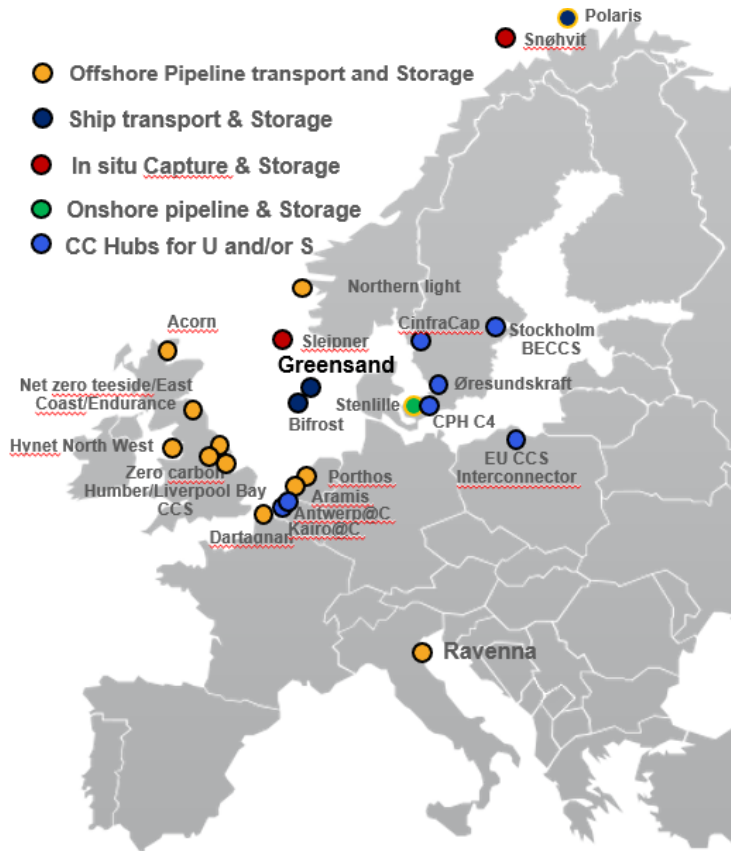
**The Carbon Management Industry will be major one on its own!**

## CCS in Denmark - The Danish 70% Reduction Target

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- Climate target in DK to reduce 70% by 2030 (“Paris”) – most ambitious in the world
- Amounts to 20 Mtpa of CO<sub>2</sub>
- According to the government climate report CCS should be 8 Mtpa of this or 40 %
  - INEOS project Greensand can potentially deliver up to the full 8 Mtpa
- Government keen on supporting CCS
  - INEOS achieved the full EUDP pool for demonstration projects in December 2021 of 197 mDKK

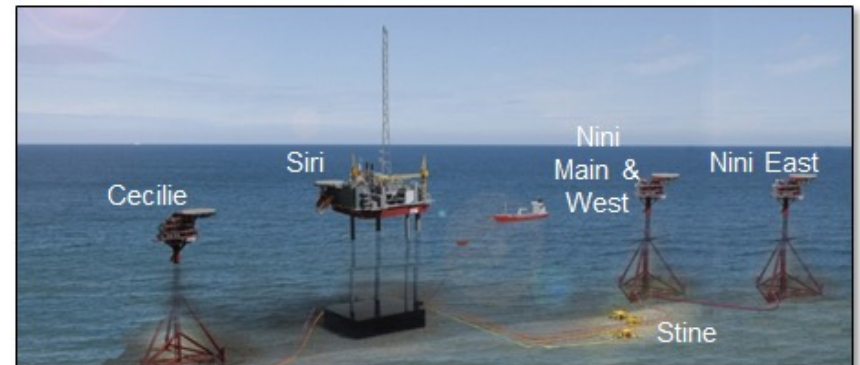
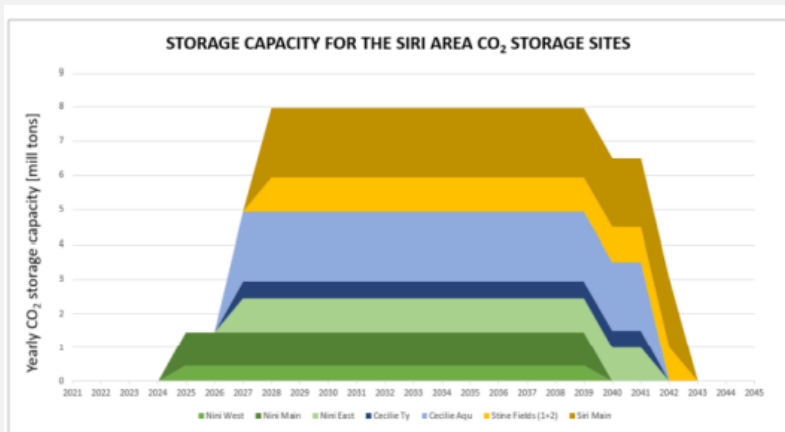
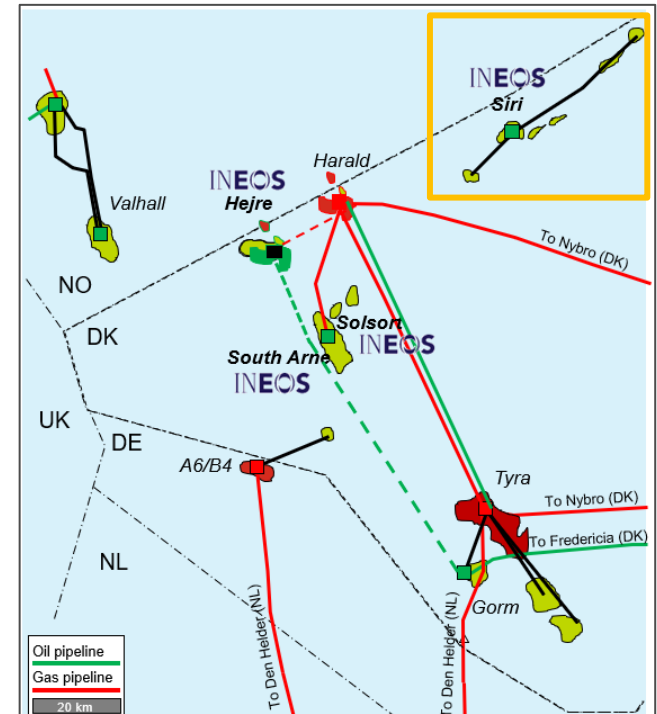
# Greensand in the European CCUS expanding landscape!



Disclaimer: Map produced by Greensand Project based on available public data, not complete and only illustrative

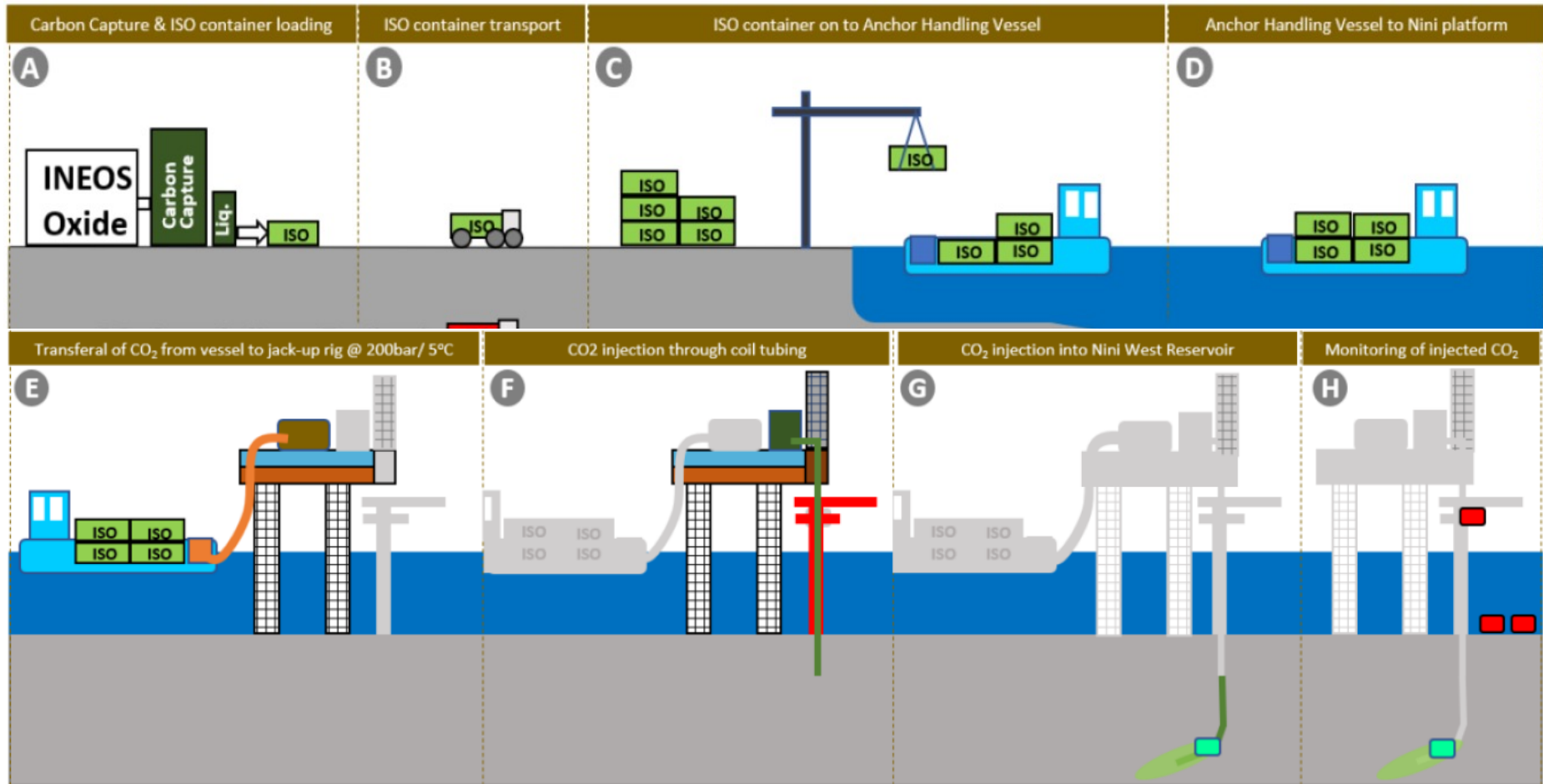
# Greensand CCS – Safe and reliable CO<sub>2</sub> storage in Siri area

- Opportunity to utilise INEOS depleted reservoirs
- Currently, main focus on the non-producing Nini West reservoir - part of Siri Area
- Phase 1 – feasibility phase concluded
  - Certificate of Conformity received for Phase 1
- Phase 2 - physical pilot test
- Phase 3 - commercial project
- Initial Greensand work on CO<sub>2</sub> storage focused Nini West (0.9 mtpa) – but potential large!



# Phase 2 – Injection Pilot

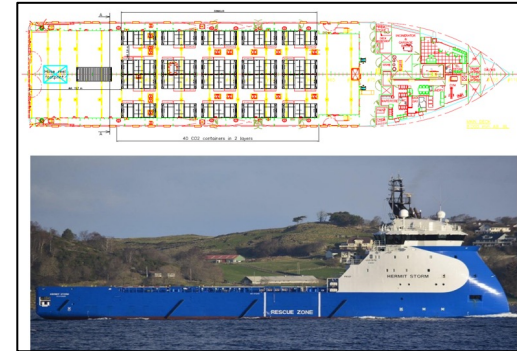
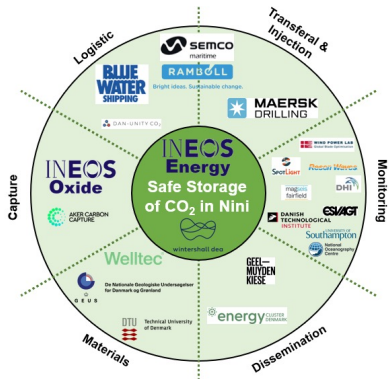
## CO<sub>2</sub> transported using PSV and injected in NA-05 via Coil Tubing





# Greensand Project Phase 2

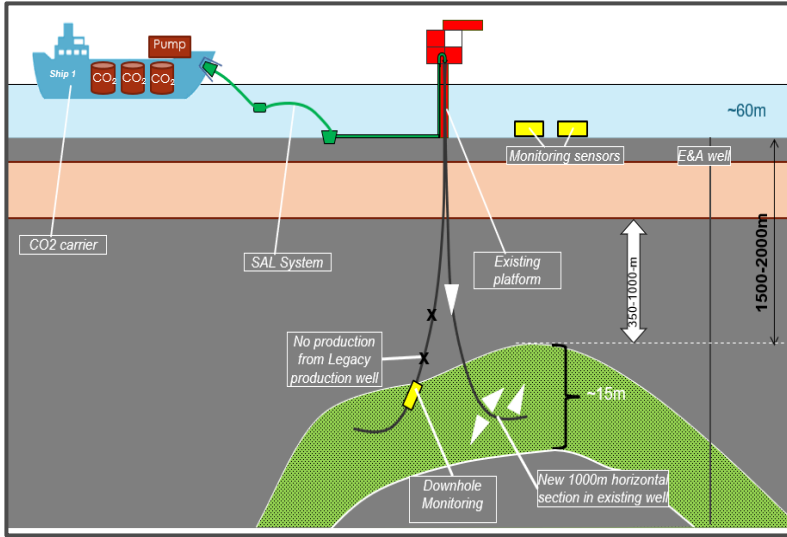
## Phase 2 injection pilot – the CO<sub>2</sub> journey





# Greensand Full Scale Project

Starting with a 1.5 MTPA capacity – Transport by Ship and Storage in the Nini



## Key Activities Ongoing

- Mature Nini Main reservoirs
- Mature Development concept
  - Ship design (LP/MP/HP & Size)
  - Offloading/Transfer system
  - CO2 injection wells
  - Monitoring set-up
- Establish logistical & commercial model
- Authority approvals
- DnV Storage Site & Site Development CoC's
- Commercial contracting

Basis for final investment decision (FID) in 2nd half of 2023

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Storage Capacity
<b>Phase 1</b>	█											
<b>Phase 2 - Pilot (Nini West)</b> - Offshore injection period			█									
<b>Full Scale (Nini West/Main)</b>			█ Concept Selection and FEED									Up to 1.5 MTPA
<b>Siri Fairway Expansion Project</b>							█ Pipeline transport?				Up to 8 MTPA	

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QnA