The Greensand CO2 Transport and Storage Project

INEOS Energy and Wintershall Dea

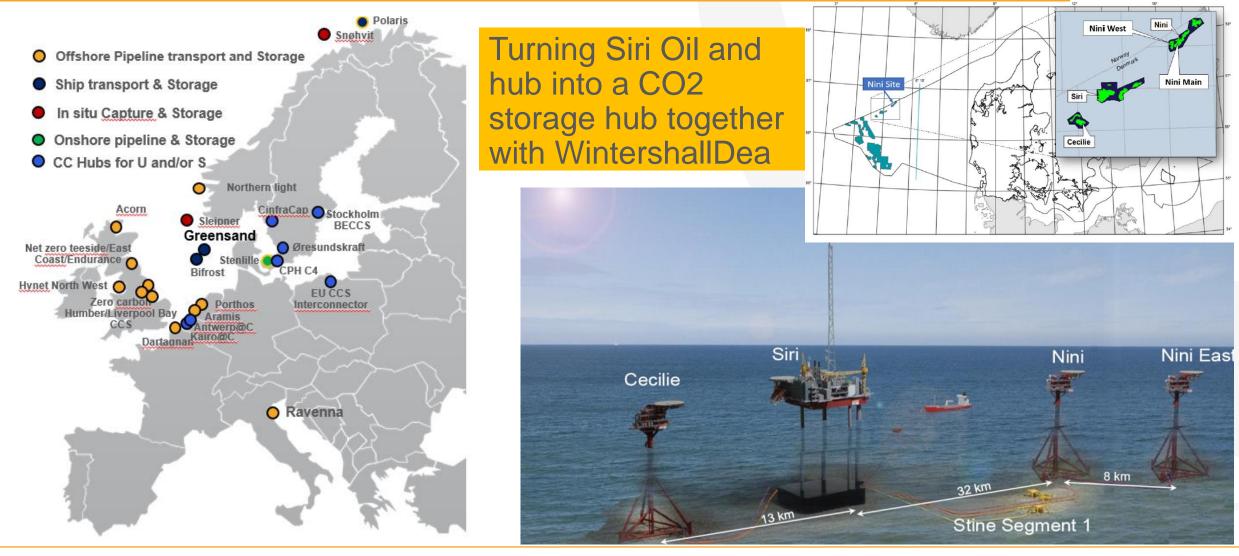
Status & Outlook

1

Søren Reinhold Poulsen Head of Denmark Assets Greensand Project Director INEOS Energy Denmark



Greensand in the European CCUS expanding landscape!



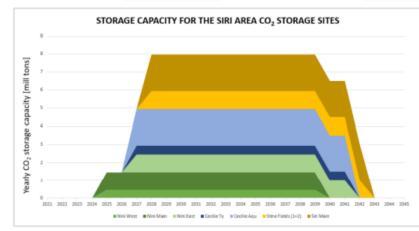


Greensand Project – Transport and Storage of CO2 Overview



- Use of Siri Area for CO₂ storage INEOS has experience and huge data set from exploration and production activities in Siri Area over more than 20 years
- Initial Greensand work focused on CO₂ storage in Nini West
- Nini Full scale project includes Nini Main & West delivering 1.5 MTPA in 2026
- Expansion project includes remaining Siri area suitable reservoirs – potential 8 MTPA by 2030

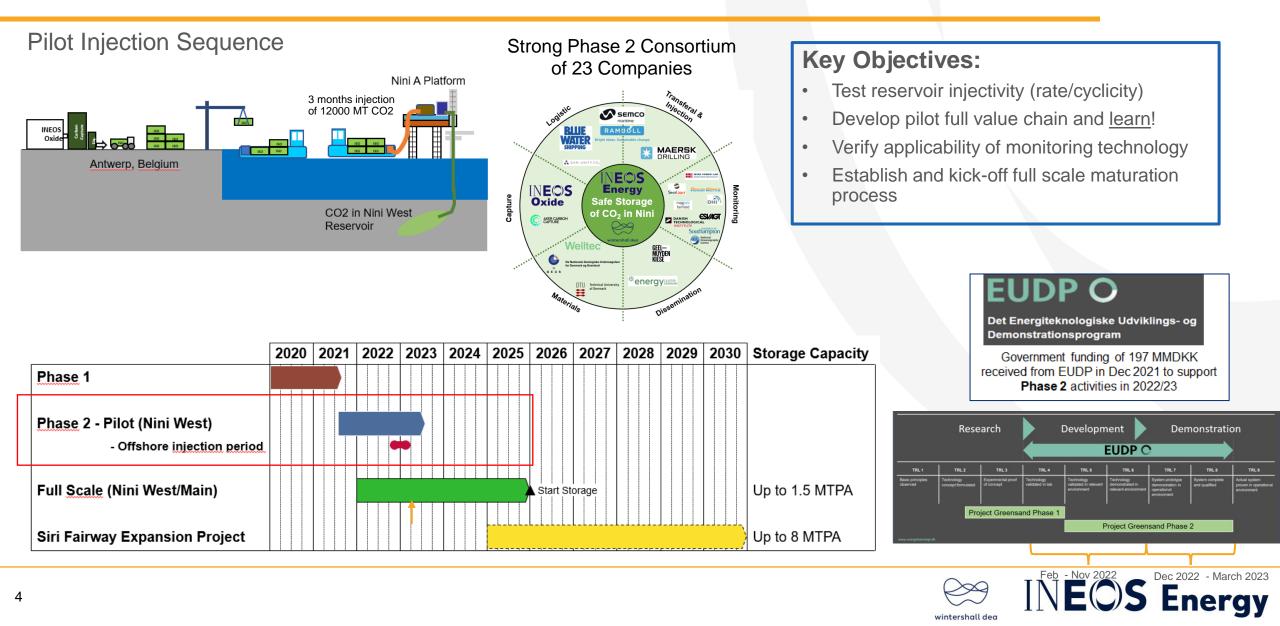






Greensand Project Phase 2

Pilot CO2 injection trial, monitoring testing and further maturation



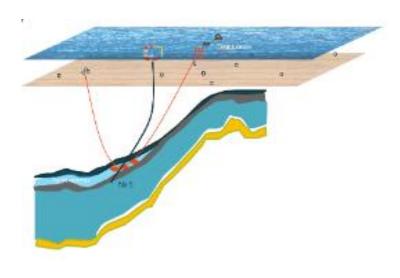
Greensand Project Phase 2

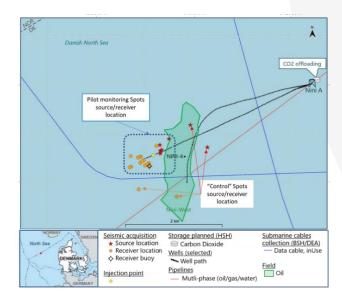
Phase 2 injection pilot – the CO2 journey



Greensand Phase 2

CO2 Plume Monitoring with Focused Seismic

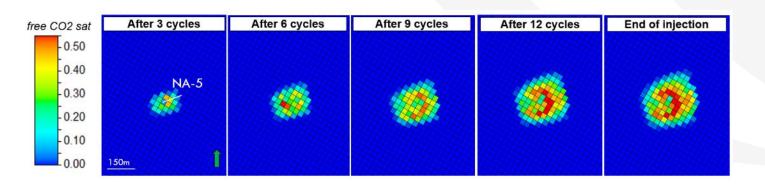




Key Objectives

- Single Source / Single Receiver Seismic survey design
- Demonstrate detectability of CO2, lean alternative to 4D seismic
- According to simulation model, seismic detection limited reached after 3-4 injection cycles
- Learn to acquire seismic from a supply vessel

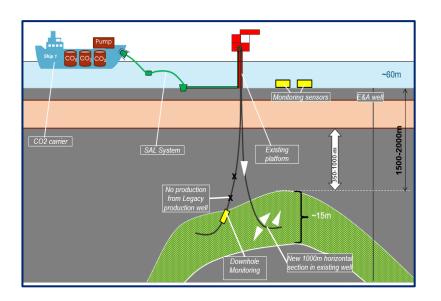






Greensand Full Scale Project

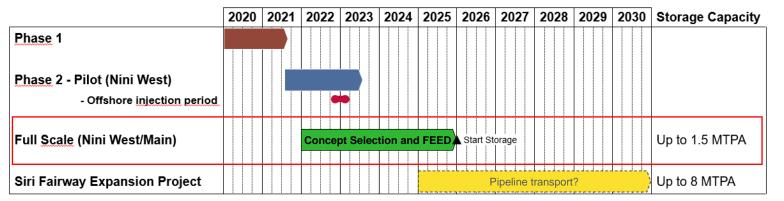
Starting with a 1.5 MTPA capacity – Transport by Ship and Storage in the Nini A area



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

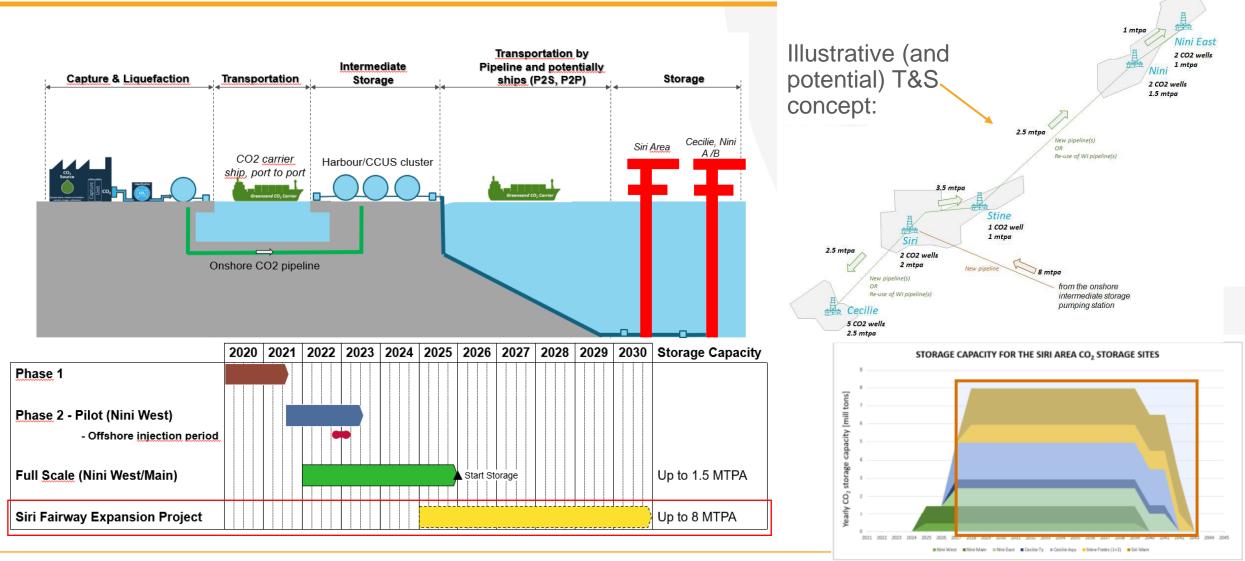
Basis for final investment decision (FID) in 2nd half of 2023





Greensand – Expanding beyond Full Scale capacity of 1.5 MTPA

Delivering up to 8 MTPA capacity in existing Oil fields – Siri Hub case



Vintershall dea INEOS Energy

(Current) Challenges ahead for the Greensand project and the CCS industry in general.....

- Human ressource skills and availability
- Supply chain delays and price fluctuations

 fierce competion for materials
- Low carbon emission T&S concept competetive edge
- Overcome remaining regulatory barriers work but authories equally motivated
- Continued collaboration throughout the value chain despite competetion picking up!
- CCS market flexibility/redundancy
- Access to further funding CAPEX/OPEX





Greensand Project – Transport and Storage of CO2

Thank You for your attention

See more on www.greensandproject.com

