



Project Barents Blue

Horisont Energi | CCS Institute

31 March 2021

Who we are



Based in Stavanger on the western coast of Norway

- **Founded in 2019**
- **Offices in Sandnes, Norway**

Focusing on commercialisation of carbon storage through

- **Clean hydrogen and ammonia**
- End-to-end **carbon storage**

Organised with competent and experienced personell for

- **offshore carbon facilities** developments; and
- **onshore hydrogen and ammonia facilities** development

Project Barents Blue

World scale clean hydrogen and ammonia



Barents Sea

- MARITIME FUEL
- CHEMICAL INDUSTRY
- FERTILIZER
- POWER



HYDROGEN

AMMONIA

CO₂

CO₂ transport

GAS

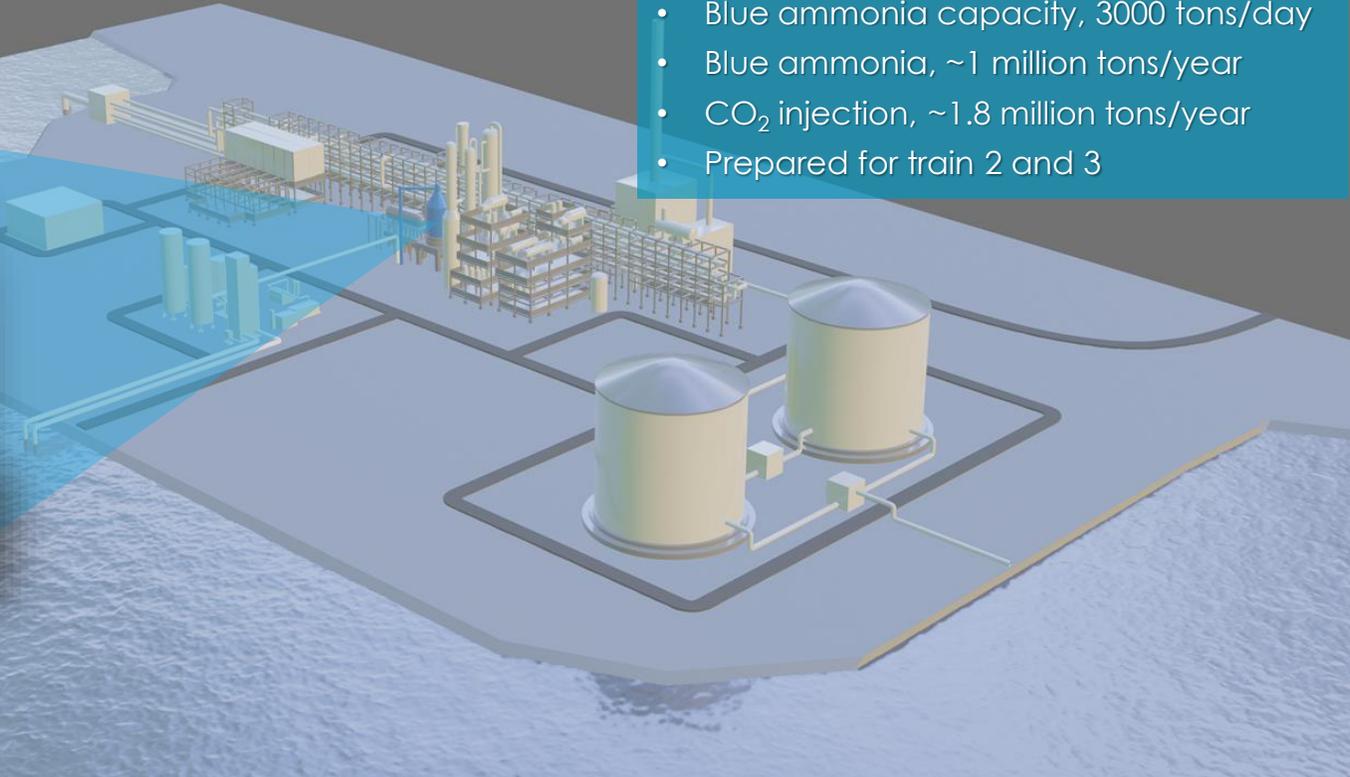
Gas purchase

Project Barents Blue

Blue SynCOR Ammonia™ plant

Technical data

- Gas feedstock of about 2.8 MSm³/day
- Carbon-free power and heat
- Blue ammonia capacity, 3000 tons/day
- Blue ammonia, ~1 million tons/year
- CO₂ injection, ~1.8 million tons/year
- Prepared for train 2 and 3



Polaris CO₂ Storage Asset



CO₂ Carrier



Onshore Control Room



Power & control cable to shore

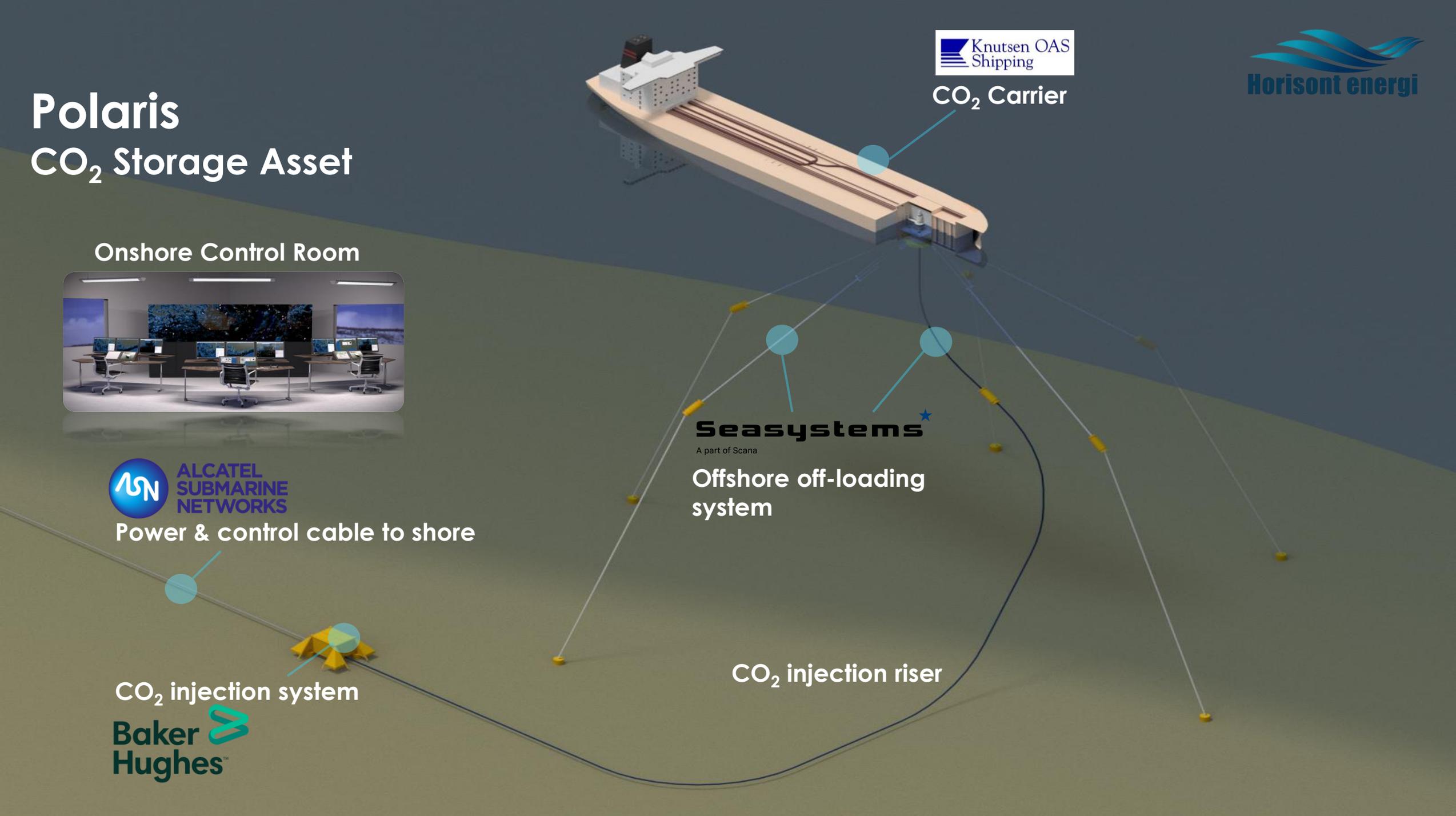
Seasystems
A part of Scana

Offshore off-loading system

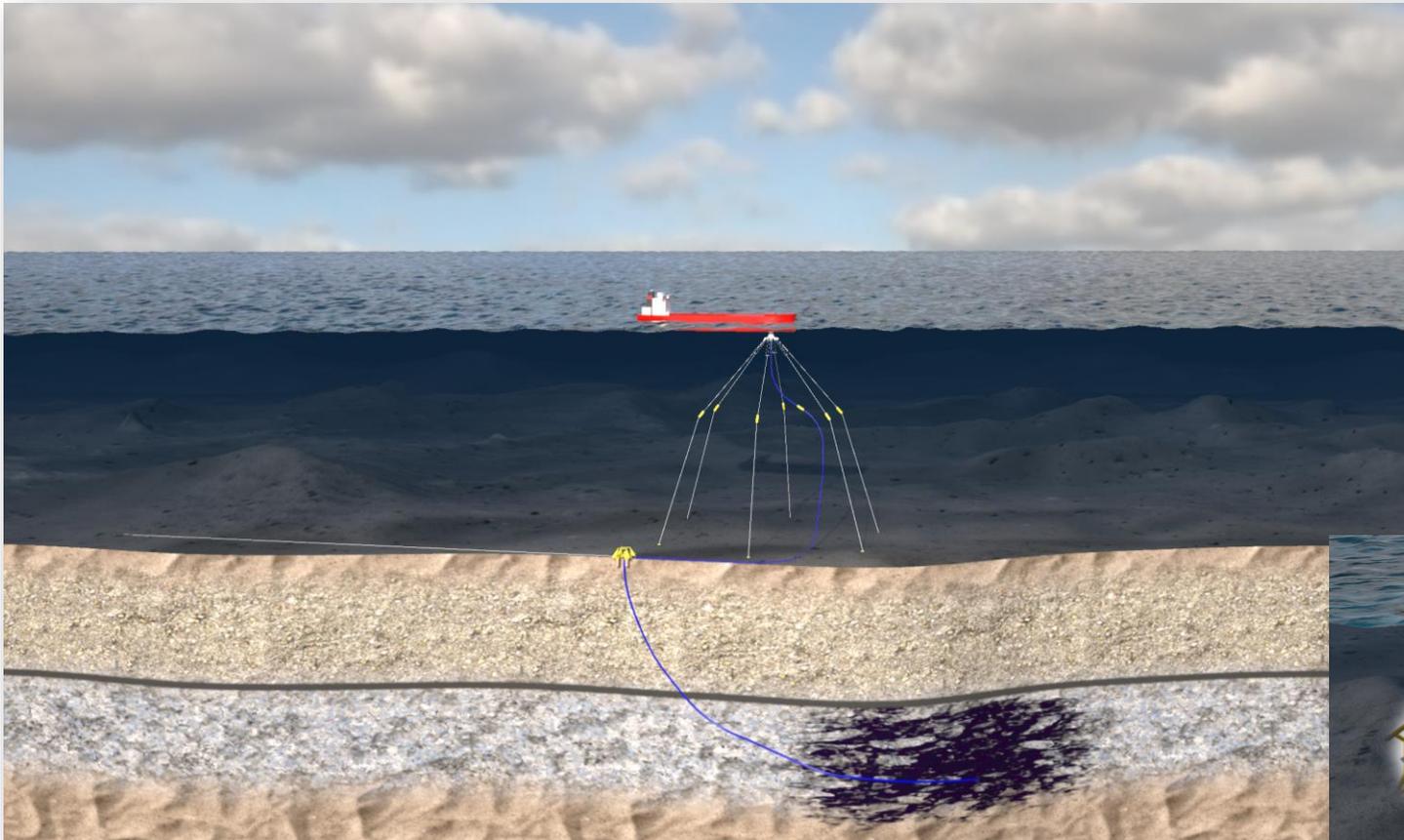
CO₂ injection system



CO₂ injection riser

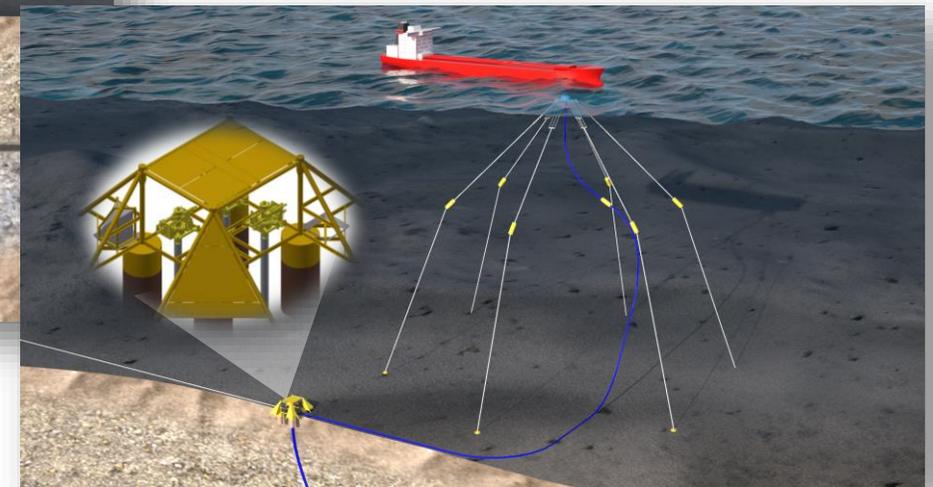


Polaris – Carbon storage asset development



KEY DATA

- 100 km off the coast of Finnmark
- High quality reservoir, above 1 Darcy permeability
- 2 million tons/yr CO₂ injection capacity in the first phase
- Over 100 million tons of estimated storage capacity



Summary

- The Barents Blue project will deliver above 1 million tons of clean ammonia per year, and about 1.8 million tons of CO₂
- We aim to be the carbon storage cost leader
- We have unique CO₂ storage technology reducing risk and minimising CAPEX
- We are developing our first CO₂ storage asset – Polaris, with economies of scale from day 1





THANK YOU

Objective: A top-tier European carbon tech company

1 First to market with world scale blue ammonia



Deliver cost-competitive clean ammonia to the global market



Become the preferred supplier of clean ammonia in Northern Europe

2 The carbon storage cost leader



Europe's preferred carbon storage provider



Europe's leading carbon storage asset developer

