

Project Barents Blue

High North Dialogue 2021

Date: 20 April

Presenter: Bjørgulf Haukelidsæter Eidesen, CEO Horisont Energi



Who we are





Project Barents Blue
World scale clean hydrogen and ammonia



MARITIME FUEL

CHEMICAL INDUSTRY

FERTILIZER

POWER

Barents Sea

 CO_2

CO₂ transport

Gas purchase GAS

HYDROGEN

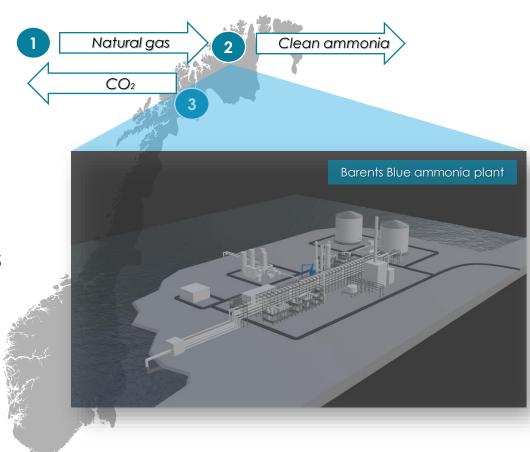
AMMONIA



Key project ambitions

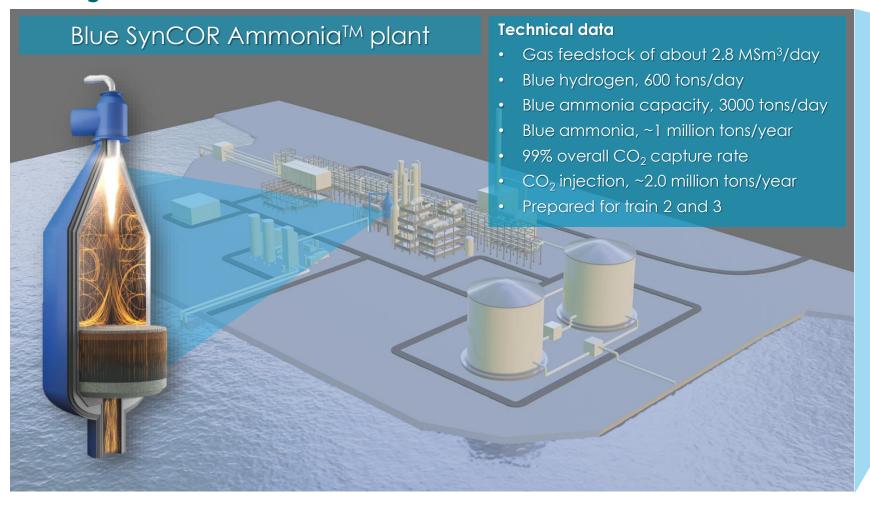
Develop the most carbon and energy efficient ammonia plant in the world

- Zero emissions, environmentally friendly plant
- Self sufficient on power, renewable electricity for start-up
- Fully automated plant with high availability
- High focus on sustainable solutions and circular practices
- Focus on low noise level and plant light design
- Efficient winterisation utilising the benefit of the cold
- Highly modular construction strategy





Project Barents Blue

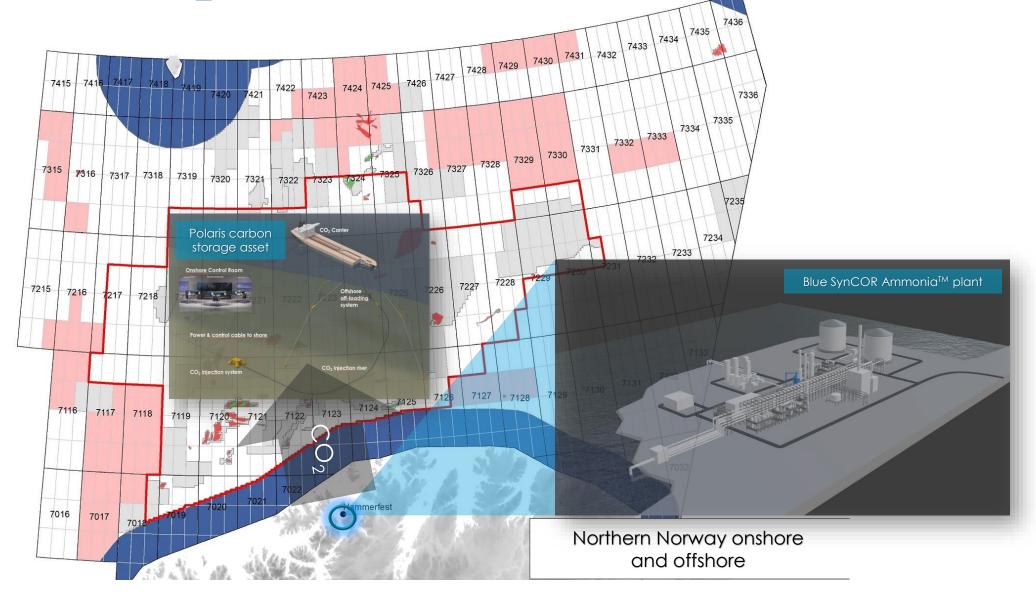




All sites regulated for industrial activity



Local CO₂ value chain

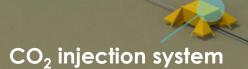


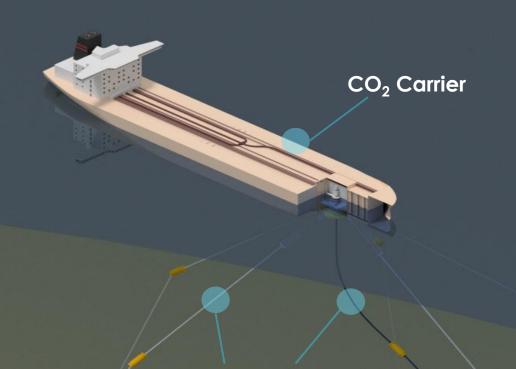
Polaris CO₂ Injection Solution

Onshore Control Room



Power & control cable to shore



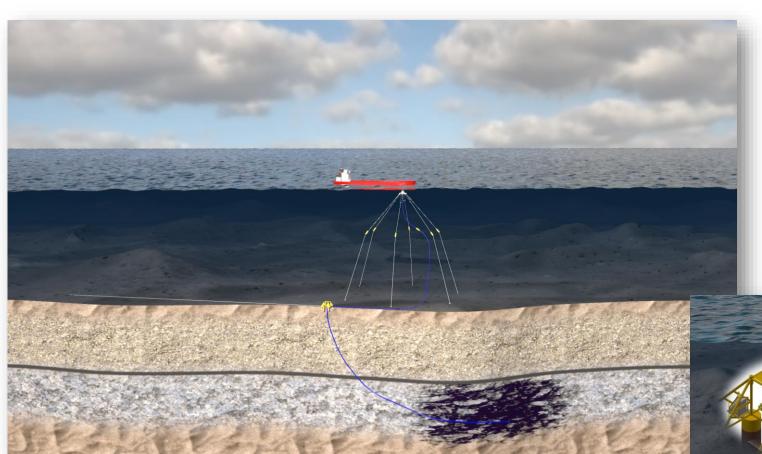


Offshore off-loading system

CO₂ injection riser



Polaris – Carbon storage asset development



KEY DATA

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

Summary

- We are developing the first green field, large scale clean ammonia plant in Europe
- It is the most carbon and energy efficient plant in the world
- The Barents Blue project will deliver above 1 million tons of clean ammonia per year
- 2 million tons of CO₂ will be injected annually into the Polaris CO2 storage
- We will create a long term carbon free industry in Finnmark



